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SYSTIMAX® Solutions

SYSTIMAX
Solutions

Corporate Profile

SYSTIMAX Solutions™ is the global leader in structured connectivity solutions. Its parent company, CommScope Inc. (NYSE:CTV), is the world's largest manufacturer of broadband coaxial cable for HFC applications and a leading supplier of high-performance fiber optic and twisted pair cables.

The SYSTIMAX product portfolio includes some of the industry's highest performing connectivity solutions for voice, data, video and building management applications in both wired and wireless enterprise networks. According to independent research, SYSTIMAX Structured Connectivity Solution (SCS) is the most widely used cabling system in the world with over 1,000 miles (1,600 km) of SYSTIMAX cable being installed every day in approximately 130 countries.

Key to the SYSTIMAX SCS success is its commitment to manufacturing excellence and technological leadership through the on-going work of SYSTIMAX Labs, its global presence and reach, and its renowned 20-Year Extended Product Warranty and Applications Assurance.

Global Locations

SYSTIMAX Solutions is supported by over 1,000 people covering more than 100 countries and has five main manufacturing facilities around the world – Omaha, NE and Claremont, NC (USA), Bray (Ireland), Brisbane (Australia) and Jaguariuna (Brazil). Across all five plants, quality control standards are stringent and consistent in accordance with ISO-9001 certification.

SYSTIMAX Labs

SYSTIMAX Solutions prides itself on its technological leadership, which is maintained by employing world-class engineers and scientists. The SYSTIMAX Labs has a remarkable track record in innovation with over 600 active patents and applications worldwide. It aims to be the first to market with next generation, innovative systems and has consistently achieved that over the years with new Category 3, 4, 5 and 6 systems. SYSTIMAX Labs representatives are active participants in every major standard-setting body around the world.

Warranty

The SYSTIMAX Structured Connectivity Solutions (SCS) 20-year warranty is unique in that it provides applications assurance as well as an extended product warranty.

Global Presence

Through a global network of approximately 2,000 highly skilled BusinessPartners, SYSTIMAX Solutions has an established track record in supplying some of the world's leading companies, including three-quarters of the top 100 global companies as ranked by FORTUNE magazine.

Global Solutions

The SYSTIMAX Solutions' product portfolio includes: the copper SYSTIMAX GigaSPEED® X10D Solution capable of supporting 10 Gigabit Ethernet, the copper based GigaSPEED® XL Solution, the fiber optic LazrSPEED® and TeraSPEED™ Solutions, the real-time infrastructure management system—the iPatch® System, the pre-connectorized fiber optic solution InstaPATCH® Plus and the SYSTIMAX AirSPEED™ Solution, an enterprise wireless LAN solution.

Introduction to SYSTIMAX Solutions Catalog

Introduction

A premises connectivity system, or distribution system, allows telephones, printers, personal computers (PCs) and other communications devices to communicate with each other. It does this by connecting them together through a combination of cables, adapters, connectors and other equipment such as wireless access points.

A structured connectivity solution is a cohesive way of organizing a connectivity system. The basic rules governing a structured connectivity solution are:

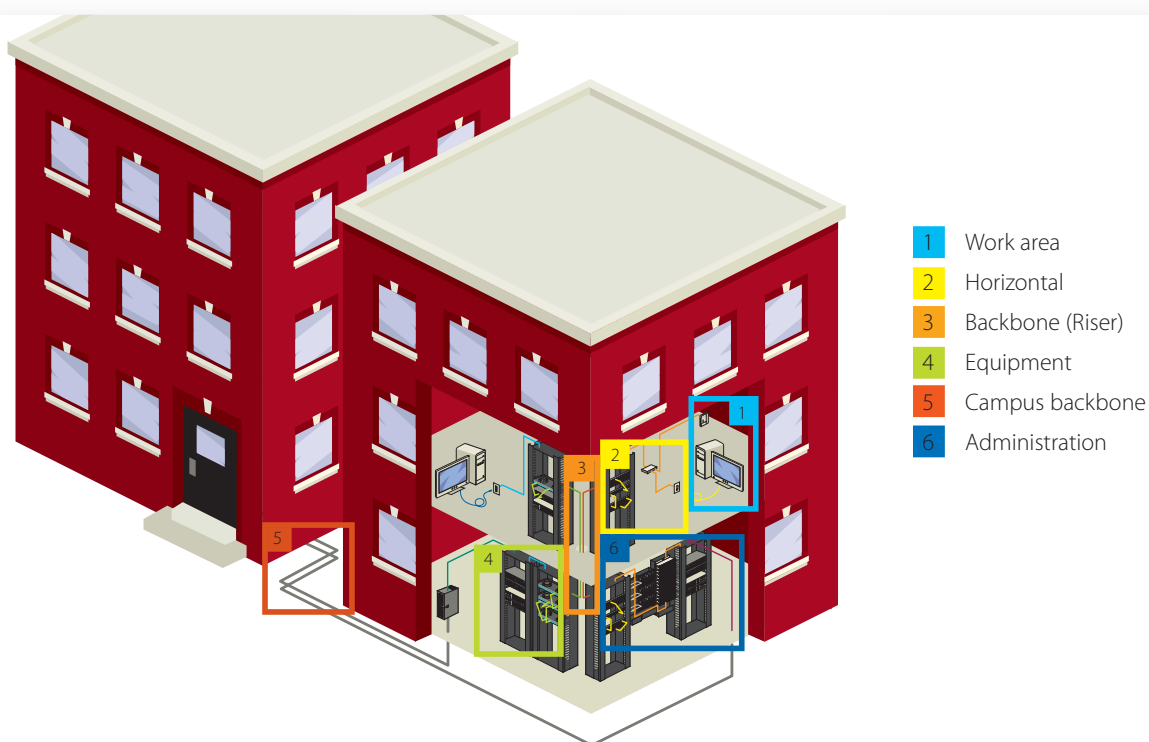
- It uses standardized media and layout for both backbone and horizontal cabling.
- It uses standard connection interfaces for the physical connection of equipment.
- It supports equipment and applications of many vendors — not just a single vendor. The cabling system is independent of the vendor's equipment, and thus, is more flexible. This is known as "Open Architecture."
- It has a consistent and uniform design. It follows a system plan and basic design principles.
- It is designed and installed as a total system. Cabling is not just installed on an as-needed basis.

SYSTIMAX SCS Subsystems

The complete structured connectivity solution can be divided into six discrete subsystems. Each subsystem provides modularity and flexibility; changes and rearrangements usually take place in just two of the subsystems. Configurations for different types of connectivity, for new applications, or for new standards may also involve just a few subsystems.

The following six subsystems, when linked together, provide a complete, integrated connectivity system:

- Work Area Subsystem
- Horizontal Subsystem
- Backbone (Riser) Subsystem
- Equipment Subsystem
- Campus Backbone Subsystem
- Administration Subsystem



Work Area Subsystem

The connection between the Information Outlet (IO) and the station equipment (such as PCs, telephones, printers and video monitors) in the work area is the Work Area Subsystem. It consists of cords, adapters, and other transmission electronics, such as wireless access points, that permit the station equipment to connect to the horizontal media via the IO.

In SYSTIMAX SCS for Building Automation Systems, this subsystem is called the Coverage Area Subsystem, and equipment typically includes smoke-, fire-, and temperature-sensing devices.

Horizontal Subsystem

The Horizontal Subsystem covers the distance from the Work Area to the Telecom Closet (TC). It includes the IO and the transmission media used to extend the outlet to the TC. Each floor of a building is served by its own Horizontal Subsystem.

SYSTIMAX SCS supports the use of twisted pair copper cable and/or multimode optical fiber and 8.3 micron singlemode optical fiber in the Horizontal Subsystem. The horizontal wiring is terminated on an IO in the Work Area and on cross-connect or interconnect hardware in the TC. The horizontal wiring shall be a star topology with each Work Area IO connected to a TC.

When twisted pair copper is used, SYSTIMAX SCS requires that individual 4-pair cables be run and terminated at each IO placed in the Work Area. The maximum length of the horizontal cable run is 295 feet (90 meters).

Backbone (Riser) Subsystem

The Backbone (Riser) Subsystem is the portion of the SYSTIMAX SCS that provides the main (or feeder) cable routes in a building. It usually supplies the multiple circuit facilities between two locations, especially where common system equipment is located at a central point. The Backbone (Riser) Subsystem consists of larger pair count copper cables and optical fiber cabling along with the associated hardware used to bring this cable to other locations. For communications within a building, the Backbone (Riser) Subsystem connects TCs to equipment areas. These areas may be a single main equipment room or multiple equipment locations within the building.

Equipment Subsystem

The Equipment Subsystem consists of shared, common communications equipment and the transmission media required to terminate this equipment on connecting hardware.

The Equipment Subsystem is made up of the cable, connectors and associated support hardware in an equipment room. These are used to extend the common equipment circuits to the main cross-connect wall field for connection to the SYSTIMAX SCS.

Campus Backbone Subsystem

The Campus Subsystem extends the cabling in one building to communication devices and equipment in other buildings on the premises. It is the portion of the distribution system that includes the transmission media and support hardware required to provide an inter-building communication facility. It consists of copper cable, optical fiber cable, and electrical protection devices that are used to prevent surges on the cable from entering buildings.

Fiber optic cable is often used as the Campus Backbone medium because it is immune to Electromagnetic Interference and Radio Frequency Interference (EMI and RFI) and can extend the distance over which signals can travel between buildings. Typically, the Campus Backbone Subsystem connects buildings in the equipment rooms.

Administration Subsystem

The Administration Subsystem consists of the cross-connects and interconnects that are made to join two subsystems together or to assign common equipment circuits to subsystems that exist in the TC and equipment areas. Cross-connects and interconnects allow easy administration of common equipment circuits for routing and rerouting to various parts of a building or a campus.

Cross-connects are made with hook-up wire or patch cords. A hook-up wire is a short length of single wire, whereas a patch cord contains several wires and has connectors at both ends. Patch cords provide an easy way to rearrange circuits without the need for the special tools required to install jumper wires. Interconnects accomplish the same purpose as cross-connects but use plug ended wires, jacks and adapters instead of jumper wires or patch cords.

It is recommended that the Administration System use the color coding for circuit labels and the circuit identification parameters outlined in TIA/EIA 606.

This catalog contains all the components to fulfill the requirements of each of the subsystems.

SYSTIMAX Structured Connectivity Solutions (SCS)

Introduction



LazrSPEED/OptiSPEED/TeraSPEED

- 1 Outdoor and indoor/outdoor cables
- 2 Fiber optic LIUs/489 FIU
- 3 Indoor and indoor/outdoor cables
- 4 Equipment frame and cable management solution
- 5 InstaPATCH Plus connectivity solutions
- 6 Plenum, Riser and LSZH indoor cables
- 7 G2 fiber connectivity solution
- 8 Faceplates and multimedia outlet
- 9 Patch/work area cord

fiber

copper

GigaSPEED X10D/GigaSPEED XL/PowerSUM

- 1 Protection products
- 2 Equipment frame and cable management
- 3 VisiPatch System
- 4 110 System
- 5 iPatch System
- 6 1100/UMP/PATCHMAX patch panels
- 7 Zone boxes
- 8 Outlets and faceplates
- 9 Patch/work area cord and media adapters
- 10 AirSPEED wireless access point

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Copper
Reference

Copper Solutions Reference

UTP Cable

Copper Conductor Sizes

Gauge	Diameter	DCR	Diameter	DCR
19	0.0359 in	8.05 Ohms/1,000 ft	0.912 mm	26.4 Ohms/km
22	0.0253 in	16.2 Ohms/1,000 ft	0.643 mm	53.2 Ohms/km
23	0.0226 in	20.3 Ohms/1,000 ft	0.574 mm	66.6 Ohms/km
24	0.0201 in	25.7 Ohms/1,000 ft	0.511 mm	84.2 Ohms/km
26	0.0159 in	41.0 Ohms/1,000 ft	0.404 mm	13.5 Ohms/km

Pair Colors

The 4-pair UTP cable, pair color combinations are as follows:

Pair Number	1010 Cable Pair Colors		2010 Cable Pair Colors		61, 71, 81, 91 Series Cable Pair Colors	
	(T)ip	(R)ing	(T)ip	(R)ing	(T)ip	(R)ing
1	W-BL	BL-W	W-BL	BL	W	BL
2	W-O	O-W	W-O	O	W	O
3	W-G	G-W	W-G	G	W	G
4	W-BR	BR-W	W-BR	BR	W	BR

The 25-pair UTP cable, pair color combinations are as follows:

Pair Number	Colors	Pair Number	Colors	Pair Number	Colors	Pair Number	Colors	Pair Number	Colors
1	BL/W	6	BL/R	11	BL/BK	16	BL/Y	21	BL/V
2	O/W	7	O/R	12	O/BK	17	O/Y	22	O/V
3	G/W	8	G/R	13	G/BK	18	G/Y	23	G/V
4	BR/W	9	BR/R	14	BR/BK	19	BR/Y	24	BR/V
5	S/W	10	S/R	15	S/BK	20	S/Y	25	S/V

Color Codes:

Black - BK

Blue - BL

Brown - BR

Green - G

Orange - O

Red - R

Slate - S

Violet - V

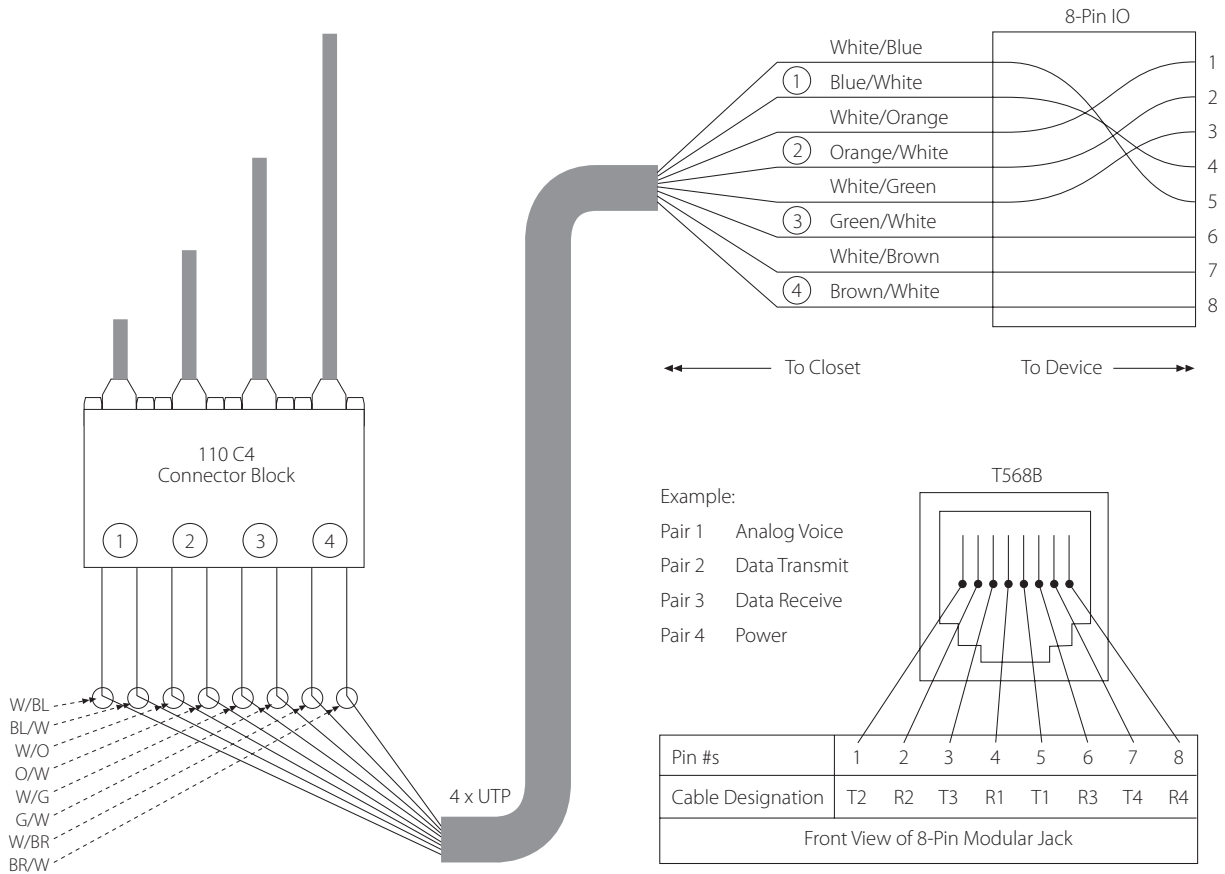
White - W

Yellow - Y

Information Outlet

ISO (International Standards Organization) Pin-Pair Assignment

To permit circuit administration at the cross-connects, signals for different services may appear on specified wire pairs. The 8-pin IO is wired internally to make this happen. The 8-pin jack connects particular pins on the station side (the work area wiring) to particular twisted-wire pairs of the building distribution cable (the horizontal wiring).

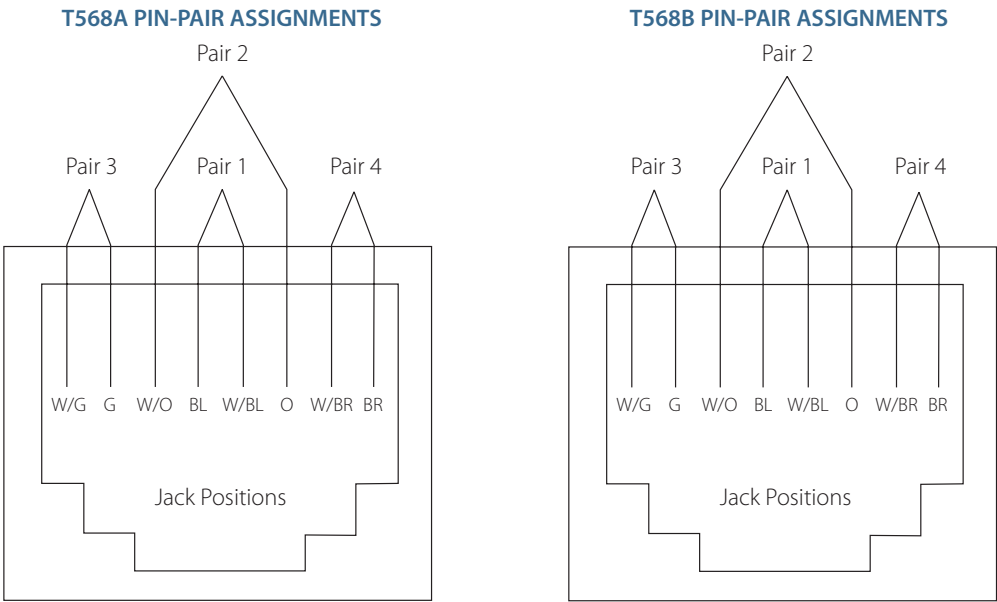


Copper
Reference



T568 Outlet Specifications

In the TIA/EIA 568B standard, there are two configurations for termination of the 4-pair cable. They are designated T568A and T568B. The T568A wiring has pair 2 (orange) terminated on pins 3 & 6 and pair 3 (green) terminated on pins 1 & 2. The T568B wiring just reverses the termination of the orange and green pairs. Although T568A and T568B wiring is supported for system registration, SYSTIMAX SCS recommends use of the T568B wiring.



The SYSTIMAX M-Series Modules are available with T568B and T568A universal color designations.

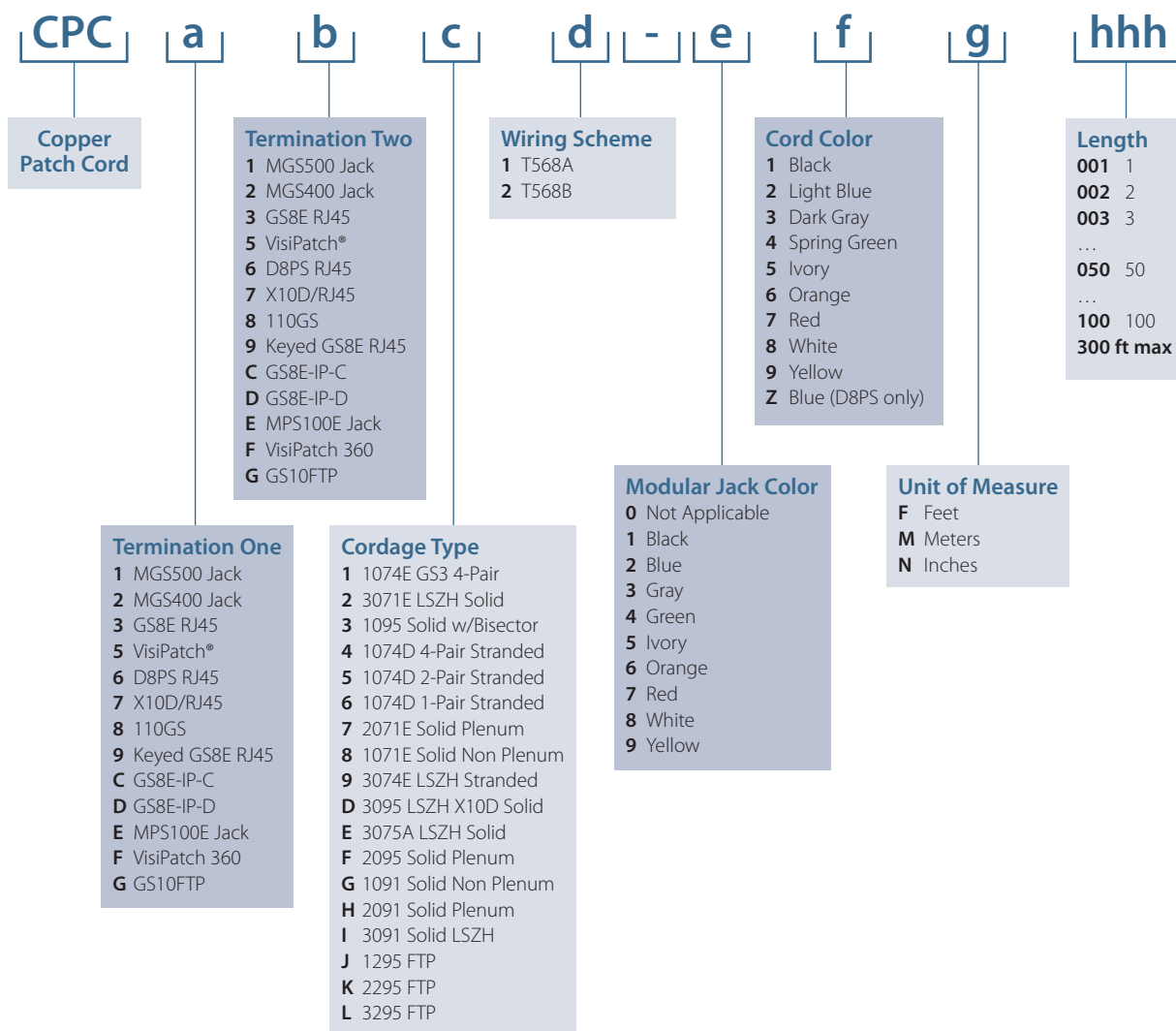
Copper Patch Cord Product Identifier

Patch Cords

Cord Order Process

The **Copper Patch Cord Product Identifier** provides for a flexible ordering system. The various patch cords are orderable with a 14-character feature configuration coding system. It allows for many different combinations of plug ends, cordage types, colors and lengths. However, as this product guide is global, regional portfolios differ. To confirm your region's offering, please contact your account representative or BusinessPartner.

Copper
Reference



Example:

The CPC code for a GigaSPEED XL RJ45 to RJ45, Stranded PVC, 568B wired, red, 7-foot patch cord is: CPC3312-07F007

Copper
Reference

GigaSPEED® X10D Solution Exceeding Category 6A



Features and Benefits:

- Performance guaranteed to meet or exceed Category 6A/Class E_A Channel Specifications to 500 MHz
- Performance guaranteed up to 4 connections, up to 100 meters, in a 6-around-1 cable bundle configuration
- Channel optimized using Modal Decomposition Modeling
- Supports IEEE 802.3 10GBASE-T, 1000BASE-T, TIA-854-A 1000BASE-TX, ATM Forum CB1G plus other legacy LANs and applications (Video, BAS)
- Backward compatible with existing SYSTIMAX cable and connecting hardware

The GigaSPEED X10D Solution fully complies with the IEEE 802.3an link segment specifications for 10GBASE-T, in addition to the TIA/EIA and ISO/IEC Category 6A/Class E_A requirements.

The GigaSPEED X10D Solution will support up to 100 meter channel configuration with at least 4 connections and meet PSANEXT, PSAELFEXT and Insertion Loss specifications extrapolated to 500 MHz per IEEE 802.3an. The Alien Crosstalk performance of the GigaSPEED X10D Solution, which is crucial to successful 10 Gbps transmission, is guaranteed for the complete channel (not just cable) across the entire swept frequency (1-500 MHz) and tested in a stringent 6-around-1 configuration that is representative of worst-case installation conditions.

The GigaSPEED X10D components are fully backward compatible in terms of channel performance and installation techniques to existing SYSTIMAX UTP solutions. The new and innovative cable design coupled with new connectors that follow similar termination as the previous generations, installation of the complete channel is an evolution of previous SYSTIMAX solutions with a revolution in channel performance.

The GigaSPEED X10D Solution is backed by the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when installed and registered by an authorized BusinessPartner.

GigaSPEED X10D products include:

- 4-Pair 1091/2091/3091 UTP Cables
- 4-Pair 1291/2291/3291 FTP Cables
- 1100GS5 Patch Panels
- PATCHMAX® GS5 Patch Panels
- M3000 Modular Patch Panels
- M2000 Modular Patch Panels
- MGS500 Information Outlets
- GS10E Patch and Workstation Cords
- VisiPatch 360 System

GigaSPEED® X10D Specifications

SYSTIMAX GigaSPEED X10D Category 6A Guaranteed Channel Performance

Guaranteed Performance Specifications for GigaSPEED X10D Solution

Electrical Parameters	Guaranteed Channel Margins to ISO/IEC 11801 : 2002 "Class E" (1 – 250 MHz)	Guaranteed Channel Margins to ISO/IEC 11801 Edition 2.1 "Class E _A " (1 – 500 MHz)
Insertion Loss	5.0 %	2.0 %
NEXT	6.0 dB	1.0 dB
PSNEXT	7.5 dB	2.5 dB
ACR-F	6.0 dB	4.0 dB
PSACR-F	8.0 dB	6.0 dB
Return Loss	3.0 dB	0.0 dB
PSANEXT	N/A	0.0 dB
PSAACR-F	N/A	0.0 dB

Frequency (MHz)	Insertion Loss (dB)	PSANEXT (dB)	PSAACR-F (dB)	NEXT (dB)	ACR-N (dB)	PSNEXT (dB)	PSACR-N (dB)	ACR-F (dB)	PSACR-F (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	3.8	67.0	67.0	71.0	68.9	69.5	67.4	69.3	68.3	22.0	580	40
4.0	4.0	67.0	65.0	69.0	65.0	68.0	64.0	57.2	56.2	22.0	562	40
8.0	5.6	67.0	58.9	64.2	58.5	63.1	57.5	51.2	50.2	22.0	557	40
10.0	6.3	67.0	57.0	62.6	56.3	61.5	55.2	49.3	48.3	22.0	555	40
16.0	7.9	67.0	52.9	59.2	51.3	58.1	50.2	45.2	44.2	18.9	553	40
20.0	8.9	67.0	51.0	57.6	48.7	56.5	47.6	43.2	42.2	19.0	552	40
25.0	10.0	66.0	49.0	56.0	46.1	54.8	44.9	41.3	40.3	19.1	551	40
31.3	11.2	65.1	47.1	54.4	43.3	53.2	42.1	39.3	38.3	19.2	550	40
62.5	15.9	62.0	41.1	49.4	33.4	48.1	32.2	33.3	32.3	17.0	549	40
100.0	20.4	60.0	37.0	45.9	25.6	44.6	24.2	29.3	28.3	15.0	548	40
200.0	29.4	55.5	31.0	40.8	11.4	39.4	10.0	23.2	22.2	12.0	547	40
250.0	33.1	54.0	29.0	39.1	6.0	37.7	4.5	21.3	20.3	11.0	546	40
300.0	36.5	52.8	27.5	32.7	-3.8	31.3	-5.3	20.0	19.0	7.2	546	40
400.0	42.7	51.0	25.0	30.6	-12.2	29.1	-13.7	17.5	16.5	6.0	546	40
500.0	48.3	49.5	23.0	28.9	-19.4	27.3	-21.0	15.3	14.5	6.0	546	40

Guaranteed Channel Performance Margin for registered SYSTIMAX installations performed by a SYSTIMAX BusinessPartner in accordance with the GigaSPEED X10D Design and Installation guidelines.

Note: The table provides reference values only. All parameters comply with the governing equations given above over the entire frequency range. All values and equations apply to worst-case channels utilizing 4-Pair 91A series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for the length up to 100 meters.

Non Plenum 1091, GigaSPEED® X10D Cable

The GigaSPEED X10D Solution includes a new type of 4-pair cable, the 91 series. GigaSPEED X10D Solution is designed to give channel performance exceeding Category 6A channel specifications, and in addition has substantially improved Alien Crosstalk performance.

The cable design has been dramatically enhanced using the SYSTIMAX Labs Cable Twist Accuracy Technology. The 91 series cables incorporate a round smooth shape that speeds the handling and termination process and minimizes variation in Alien Crosstalk performance. The cables have been designed to withstand an aggressive 6-around-1 channel test that SYSTIMAX Labs believes to be the most challenging test configuration representative of real life installations including large cable bundles. This is a Powersum computation of the Alien Crosstalk noise from 24-pairs of 6 channels surrounding a single 4-pair channel. The 91 series cables have been specified out to 550 MHz to support high bandwidth applications operating at 10 Gbps.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of the TIA "Category 6A" and ISO/IEC "Class E_A" up to 500 MHz when used as part of a GigaSPEED X10D channel in registered SYSTIMAX installations
- 4-pair construction with finned inner jacket surface and

bisector center member provides the extra margin of performance required for high bandwidth applications

- Can support network line speeds up to at least 10 Gbps
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 40.6 lbs/1,000 ft (60.5 kg/km)

Nominal Jacket Thickness: 0.058 in (1.47 mm)

Nominal Outside Diameter: 0.315 in (8 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 66%

Maximum DC Resistance: 7.61 Ohms/100 m

Maximum DC Resistance Unbalance: 3%

Mutual Capacitance at 1 kHz: 6 nF/100 m

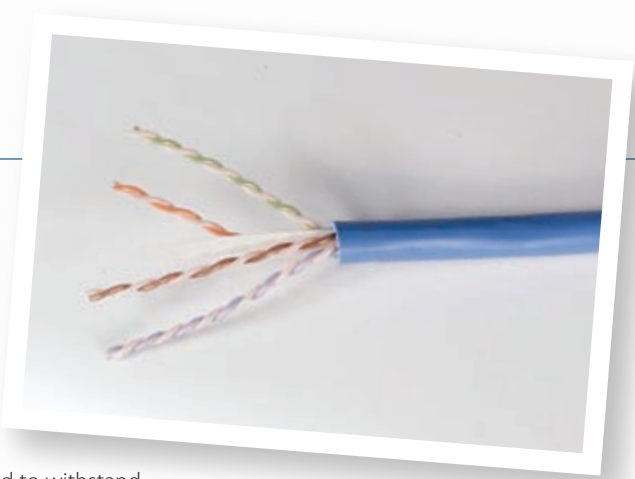
UL and cUL: CMR, CMG

Product Number	Pair Count	Color	Length	Package	Material ID
1091 004ABK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	760069658
1091 004A1BK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	760071266
1091 004ABL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760021683
1091 004ABL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760027144
1091 004ALB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	760074096
1091 004AGR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760047597
1091 004AOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760021733
1091 004AOR 4/23 R3000	4	Orange	3,000 ft (914 m)	Reel	760027185
1091 004ARD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760047589
1091 004ASL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760021709
1091 004ASL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760027151
1091 004AWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760021717
1091 004AWH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760027169
1091 004AYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760021725
1091 004AYL 4/23 R3000	4	Yellow	3,000 ft (914 m)	Reel	760027177

Plenum 2091, GigaSPEED® X10D Cable

The GigaSPEED X10D Solution includes a new type of 4-pair cable, the 91 Series. GigaSPEED X10D Solution is designed to give channel performance exceeding Category 6A channel specifications, and in addition has substantially improved Alien Crosstalk performance.

The cable design has been dramatically enhanced using the SYSTIMAX Labs Cable Twist Accuracy Technology. The 91 series cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to withstand an aggressive 6-around-1 channel test that SYSTIMAX Labs believes to be the most challenging test configuration. This is a Powersum computation of the Alien Crosstalk noise from 24-pairs of 6 channels surrounding a single 4-pair channel. The 91 series cables have been specified out to 550 MHz to support high bandwidth applications operating at 10 Gbps.



GigaSPEED
X10D

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of the TIA "Category 6A" and ISO/IEC "Class E_A" up to 500 MHz when used as part of a GigaSPEED X10D channel in registered SYSTIMAX installations
- 4-pair construction with finned inner jacket surface and bisector center member provides the extra margin of performance required for high bandwidth applications
- Can support network line speeds up to at least 10 Gbps
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 48.2 lbs/1,000 ft (71.9 kg/km)

Nominal Jacket Thickness: 0.052 in (1.32 mm)

Nominal Outside Diameter: 0.310 in (7.87 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 68%

Maximum DC Resistance: 7.61 Ohms/100 m

Maximum DC Resistance Unbalance: 3%

Maximum Mutual Capacitance at 1 kHz: 6 nF/100 m

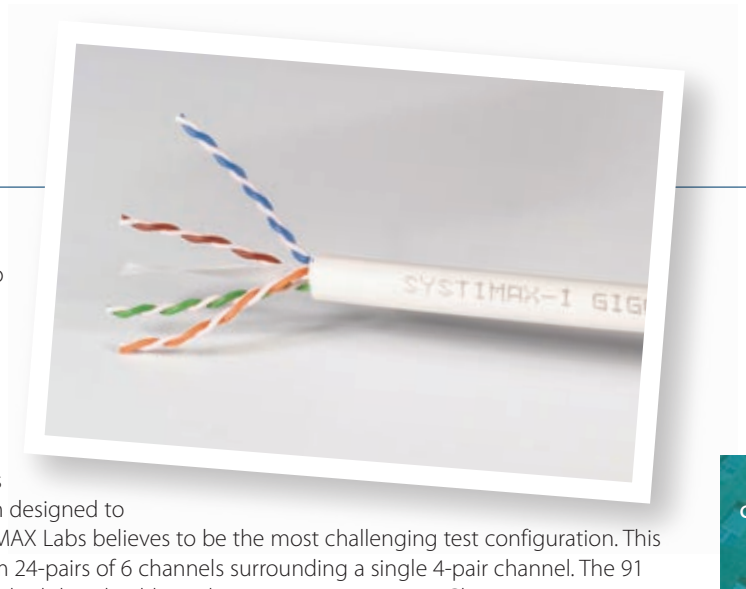
UL and cUL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2091 004ABL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760024190
2091 004ABL 4/23 R3000	4	Blue	3,000 ft (915 m)	Reel	760071100
2091 004AGR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760047571
2091 004AOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760024232
2091 004APR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760055483
2091 004ARD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760042788
2091 004ASL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760024208
2091 004ASL 4/23 R3000	4	Slate	3,000 ft (915 m)	Reel	760071092
2091 004AWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760024216
2091 004AWH 4/23 R3000	4	White	3,000 ft (915 m)	Reel	760071316
2091 004AYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760024224
2091 004AYL 4/23 R3000	4	Yellow	3,000 ft (914 m)	Reel	760058032

LSZH 3091, GigaSPEED® X10D Cable

The GigaSPEED X10D Solution includes a new type of 4-pair cable, the 91 series. GigaSPEED X10D Solution is designed to give channel performance exceeding Category 6A channel specifications, and in addition has substantially improved Alien Crosstalk performance.

The cable design has been dramatically enhanced using the SYSTIMAX Labs Cable Twist Accuracy Technology. The 91 series cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to withstand an aggressive 6-around-1 channel test that SYSTIMAX Labs believes to be the most challenging test configuration. This is a Powersum computation of the Alien Crosstalk noise from 24-pairs of 6 channels surrounding a single 4-pair channel. The 91 series cables have been specified out to 550 MHz to support high bandwidth applications operating at 10 Gbps.



Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of the TIA "Category 6A" and ISO/IEC "Class E_A" up to 500 MHz when used as part of a GigaSPEED X10D channel in registered SYSTIMAX installations
- 4-pair construction with finned inner jacket surface and bisector center member provides the extra margin of performance required for high bandwidth applications
- Can support network line speeds up to at least 10 Gbps
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 42.8 lbs/1,000 ft (63.8 kg/km)

Nominal Jacket Thickness: 0.057 in (1.45 mm)

Nominal Outside Diameter: 0.315 in (8.00 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 66%

Maximum DC Resistance: 7.61 Ohms/100 m

Maximum DC Resistance Unbalance: 3%

Maximum Mutual Capacitance at 1 kHz: 6 nF/100 m

Standards: IEC 60754 Part 2, IEC 61034 Part 2, IEC 60332 Part 3

Product Number	Pair Count	Color	Length	Package	Material ID
3091 004ABL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760023242
3091 004ABL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760023275
3091 004AWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760023226
3091 004AWH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760023234

GigaSPEED® X10D 1100GS5 Modular Patch Panel

The GigaSPEED X10D 1100GS5 panel is the latest innovation to the existing family of 1100 modular patch panels. The 1100GS5 panel is fully tuned to provide optimal throughput performance when installed as part of the GigaSPEED X10D channel.



The 1100GS5 panel features a new termination manager and redesigned rear housing. The termination manager and new rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

After the cable jacket is trimmed, the cable pairs are placed in the termination manager. The termination manager functions as an orientation guide and holder for each cable pair. The termination manager with each cable pair in the correct orientation (either 568B or 568A) is attached to the rear housing between the IDCs. Each cable pair is now aligned to the correct IDC slots, and the conductors are now placed in the slots. After all 24 cables with termination managers are in place and the conductors are in the correct IDC slot, the conductors are terminated and trimmed with the impact tool and 110 blade. An entire row of 24 cables can be placed sequentially; then, all cable conductors are punched-down sequentially, thus allowing traditional cable termination in high performance panels.

Features and Benefits:

- Certified component of an integrated GigaSPEED X10D 10G solution
- New termination manager and redesigned IDC housing allow traditional cable termination to high performance panel
- Available in 24- and 48-port configurations featuring universal A/B labeling
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable
- Can support network line speeds in excess of 10Gbps
- Each panel comes ready to install, including front and rear labels
- Backward compatible with Category 6, 5e, 5, and 3 cords and cables; however, optimal performance is achieved when used with GigaSPEED X10D GS10E cords
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Height: 24-Ports: 1.74 in (4.38 cm)

48-Ports: 3.50 in (8.83 cm)

Width: 19 in (48.3 cm)

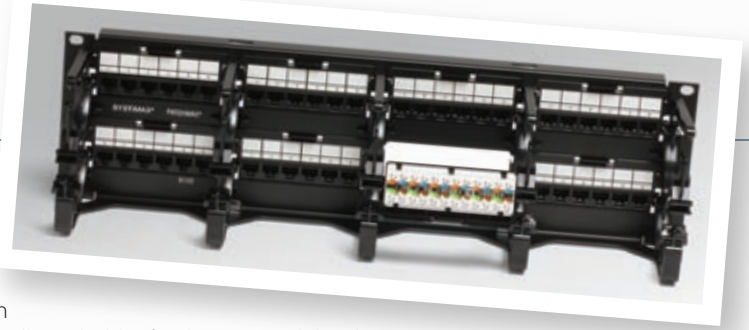
Depth: 1.60 in (4.06 cm)

Product Number	Detailed Description	UOM	Material ID
1100GS5-24	1100GS5 24-Port Panel	PC	760051151
1100GS5-48	1100GS5 48-Port Panel	PC	760051169
1100AGS5-24	1100GS5 24-Port Panel (Angled)	PC	760051177
1100AGS5-48	1100GS5 48-Port Panel (Angled)	PC	760051185
1100GS5-DM	1100GS5-DM Distribution Module Kit	PC	760051193
1100GS5-TM	1100GS5-TM Termination Manager Kit	KT	760051201

GigaSPEED® X10D PatchMAX® GS5 Modular Patch Panel

The SYSTIMAX GigaSPEED X10D PATCHMAX GS5 panel is a 19-inch rack mountable patch panel, designed to accept 4 or 8 six-port GS3 or GS5 Distribution Modules (DM), which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. Built-in horizontal patch cord management brackets provide support for patch cords as well as a holder for the DM modules during installation. This modular approach gives the customer total flexibility in selecting the required copper and fiber adapters. In addition, it provides for fiber and SYSTIMAX GigaSPEED X10D and XL copper solutions since both fiber and copper modules can fit into the same panel kit.

The PATCHMAX GS5 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and new rear housing provide for easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.



GigaSPEED
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Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of TIA 568-B.2-1 Category 6, ISO/IEC 11801 Class E, TIA Category 6A and ISO/IEC Class E_A Ed. 2.1 up to 500 MHz when used as part of a GigaSPEED X10D Channel in registered SYSTIMAX installations
- UL listed (CM)
- Individual six-port distribution modules can be removed, snapped onto the front cord management rings and pivoted forward for easy front access to the rear 110 type IDC termination field making installation easy
- Designed for simplified administration with built-in cord and cable retainer rings, color-coded labels and icons
- New termination manager and redesigned IDC housing allow traditional cable termination to high performance panel
- Available in 24- and 48-port configurations featuring universal A/B labeling
- Can support network line speeds in excess of 10 Gb/s
- Qualifies for a 20-year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Dimensions:

PM-GS5-24:

19.0 x 3.53 x 8.13 in (48.26 x 8.90 x 20.50 cm) -
2 Rack Unit Universal A/B labeling

PM-GS5-48:

19.0 x 5.29 x 8.13 in (48.26 x 13.34 x 20.50 cm) -
3 Rack Unit Universal A/B labeling

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Nominal Solid Conductor Diameter: 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)

Nominal Stranded Conductor Diameter: 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)

Insulation Size: 0.042 in (1.08 mm) (22 to 24 AWG) Maximum DOD

Insulation Types: All plastic insulates including: PVC, irradiated PVC, Polyethylene, Polypropylene, PTF Polyurethane, Nylon and FEP

Insulation Types: 750 minimum insertions of an FCC 8-Position Telecommunications Plug

Materials: Front Panel: Black powder painted steel

Plastic: High-impact, flame retardant, UL-rated 94V-0 thermoplastic

Electrical Specifications:

Insulation Resistance: 500 megaohms minimum

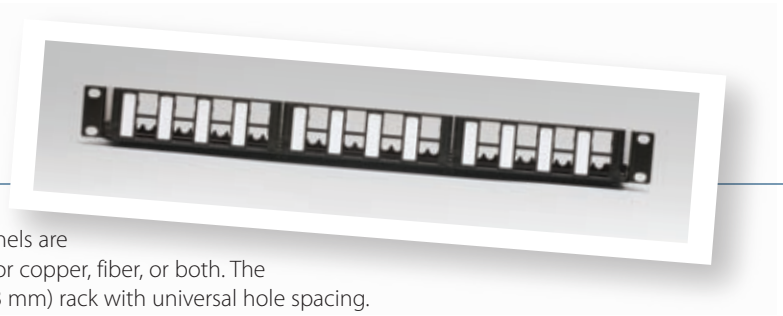
Current Rating: 1.5 A at 68°F (20°C)

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL Listed

Product Number	Detailed Description	Material ID
PM-GS5-24	24 Port Patch Panel	760060913
PM-GS5-48	48 Port Patch Panel	760060921
PM-GS5-2U	2U Blank Panel Kit	760060939
PM-GS5-3U	3U Blank Panel Kit	760060947
PM-GS3-DM	Distribution Module	760060954

GigaSPEED® X10D M3000 Modular Patch Panel



The SYSTIMAX GigaSPEED X10D M3000 Modular Patch Panels are patch panels for M-series outlets that can be configured for copper, fiber, or both. The M3000 is a 24-port panel and can mount in a 19-inch (483 mm) rack with universal hole spacing.

The M3000 panel incorporates rear cable management for consistent cable routing and management.

The M3000 includes a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet, and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

Physical Specifications:

Height: 1.75 in (44.1mm)

Width: 19 in (483 mm)

Depth: 3.7 in (93.9 mm)

Product Number	Detailed Description	No. Of Ports	Material ID
M3000-24	1U 24-Port Panel	24	760065391
Bezel Kit	8-Port Bezel Kit	8	760065417

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GigaSPEED® X10D M2000 Modular Patch Panel

The M2000 Modular Patch Panel is a panel designed for M-series outlets that can be configured for copper, fiber, or both and is available in 24-port (M2000-1U) and 48-port (M2000-2U) versions. Both the M2000-1U and M2000-2U panels mount in a 19-inch (483 mm) rack with universal hole spacing.

The M2000-1U and M2000-2U include a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

The M2000-1U and M2000-2U Panels now include M2000 Cable Organizers. The M2000 Cable Organizer is a molded plastic design that is snapped into each 6-port bezel. The 24 port 1U panel includes 4 cable organizers and the 48 port 2U panel includes 8 cable organizers. The 6 4-pair cables from each bezel are routed and positioned to the cable organizer. Cable ties are included to secure the cables.

M2000 Cable Organizers are not included with the M2000 1U and 2U Angled Panels. The M2000 Angled Panels include a cable management bar.

Also available and sold separately are M2000 1U Patch Cord Managers. These patch cord managers are metal rings that mount to the front of the panel. 5 patch cord managers are used for each 24 port 1U panel. The M2000 1U Patch Cord Manager Kit, 760069278, is a package of 5 patch cord managers.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of TIA 568-B.2-1 Category 6, ISO/IEC 11801 Class E, and the current TIA "Category 6A" and ISO/IEC "Class E_A Ed. 2.1" up to 500 MHz when used with MGS500 connectors as part of a GigaSPEED X10D Channel in registered SYSTIMAX installations
- Electrical performance guaranteed to meet or exceed TIA/EIA 568B.2-1 Category 6 and ISO/IEC Category 6/Class E specifications when used with MGS400 connectors
- Available in 24-port and 48-port configurations
- Labeling and identification for each port
- Supports copper and fiber connectors

Physical Specifications:

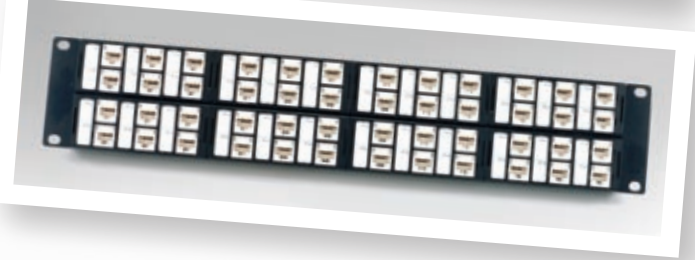
Height: 24 Port: 1.75 in (44.1 mm)

48 Port: 3.5 in (88.9 mm)

Width: 19 in (48.3 cm)

Depth: 1.2 in (30.48 mm)

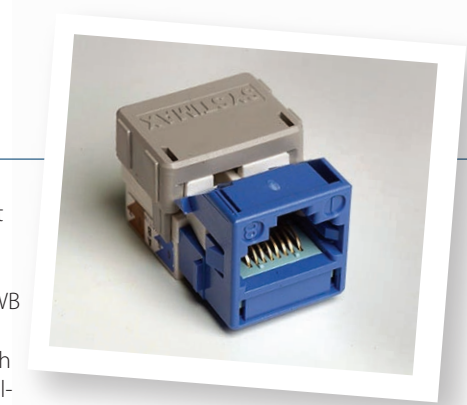
Product Number	No. Of Ports	Material ID
M2000-24 1U	24	760049932
M2000-48 2U	48	760049940
M2000A-24 1U (Angled)	24	760049957
M2000A-48 2U (Angled)	48	760049965
M2000 Cable Mgt Bar		760054627
MGS Cover with Strain Relief, 1000/Kit		760056408
M2000 Custom Label Kit		760060392
M2000 1U Cord Manager Kit		760069278
M2000 2U Cord Manager Kit		760073486



GigaSPEED
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MGS500 Series GigaSPEED® X10D Information Outlet

The MGS500 information outlet, the latest result of many years continuous product development at SYSTIMAX Labs, features patented crosstalk cancellation and compensation techniques. The MGS500 connectivity, consistent at the panels and outlet, exhibit huge improvements in high frequency crosstalk enabled via new PWB (Printed Wiring Board) materials and compensation technology. In addition, large improvements in connector Alien Crosstalk mitigation have been achieved through new materials and PWB compensation enhancements. This connector design excellence has been made possible by the SYSTIMAX Labs Connector Field Pattern Modeling technology, coupled with the system level MDM tool enabling high frequency cross coupling effects to be eliminated.



Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of the TIA "Category 6A" and ISO/IEC "Class E_A" up to 500 MHz when used as part of a GigaSPEED X10D channel in registered SYSTIMAX installations
- Snaps into standard SYSTIMAX M-Series faceplates, surface-mount boxes, consolidation point boxes, M3000 and M2000 Modular Panels, UMP 36-port Modular Panel and FlexiMAX panels. Can also be mounted either at 90 degrees (straight) or 45 degrees (angled) in any SYSTIMAX faceplate
- Universal design and label supports both T568A and T568B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Dimensions: HxWxD: 0.8 in x 0.8 in x 1.2 in (2.0 cm x 2.0 cm x 3.1 cm)
Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, 100 micro-inch (2.54 microns) bright solder over 100 micro-inch (2.54 microns) nickel underplate. Insulation displacement connectors accept solid or stranded wire

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in
(0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in
(0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Insulation Types: All plastic insulates, including: PVC, irradiated PVC, Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon and FEP

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 megaohms minimum

Current Rating: 1.5 A at 68°F (20°C)

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL Listed

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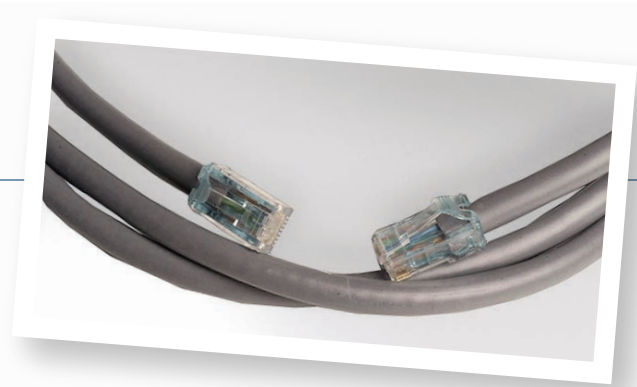
Product Number	Color	Material ID
MGS500-003	Black	760023556
MGS500-318	Blue	760023648
MGS500-112	Orange	760023564
MGS500-226	Green	760023598
MGS500-123	Yellow	760023572
MGS500-361	Violet	760023655
MGS500-270	Gray	760023622
MGS500-215	Cream	760023580
MGS500-262	White	760023614
MGS500-246	Ivory	760023606
MGS500-317	Red	760023630
MGS500-BLK-003	Black	760042002
MGS500-BLK-246	Ivory	760042010
MGS500-BLK-262	White	760042028
MGS500-BLK-318	Blue	760042036

GigaSPEED
X10D



GS10E GigaSPEED® X10D Modular Patch Cord

The high performance GS10E modular patch cord family has a patent pending plug design featuring a distinctive aqua sled and anti-snag latch for easy and rapid field identification. The GS10E plug exhibits a dramatic reduction in variation of performance via the innovative plug design.



Double ended GS10E and single ended GS117-10E are available. The GS117-10E will support both equipment cord and consolidation point applications.

Patch cords are orderable using a 14-character feature configuration coding scheme which replaces the familiar 9-character Material ID. This allows maximum flexibility for ordering many different combinations of plug ends, cordage types, colors and lengths. Please use SYSTIMAX Copper Patch Cord Product Identifier (in Copper Reference Section) for ordering information or contact your SYSTIMAX BusinessPartner.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of the TIA "Category 6A" and ISO/IEC "Class E_A" up to 500 MHz when used as part of a GigaSPEED X10D channel in registered SYSTIMAX installations
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Contact Material: Phosphor Bronze

Contact Plating: Gold 50 micro-inch (1.27 microns), nickel 100 micro-inch (2.54 microns)

Insertion Life: 750 minimum

Plug Material: Polycarbonate UL-rated 94 V-O

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

UL and cUL: CM (cordage)

Product Number	Detailed Description	CPC Code
GS10E	X10D Double Ended Cord	CPC7732
GS117-10E	X10D Single Ended Cord	CPC7432
GS10E-Plenum	X10D Plenum Double Ended Cord	CPC77F2
GS117-10E-P	X10D Plenum Single Ended Cord	CPC74F2
GS10E-L	X10D Double Ended LSZH Cord	CPC77D2
GS117-10E-L	X10D Single Ended LSZH Cord	CPC74D2
Dual MGS500	Dual MGS500 Pre-terminated Cord	CPC11G1
Dual MGS500	Dual MGS500 Pre-terminated Cord	CPC11H1

GigaSPEED® X10D FTP Specifications

SYSTIMAX GigaSPEED X10D FTP Channel Performance

The SYSTIMAX GigaSPEED X10D FTP cabling system is designed specifically to meet and exceed the emerging ISO/IEC Class E_A cabling specification. A major breakthrough of the SYSTIMAX GigaSPEED X10D FTP Solution over other legacy FTP solutions is vastly improved performance across the complete frequency spectrum from 1 to 500 MHz.

By utilizing the unique design tools available to SYSTIMAX Labs, the technologies implemented in the SYSTIMAX GigaSPEED X10D FTP Solution are capable of incorporating the FTP technology while maintaining pair balance without degrading the internal channel transmission performance. Superior Crosstalk performance, improved Insertion Loss performance and guaranteed channel performance up to 500 MHz are the key enhancements that set the SYSTIMAX GigaSPEED X10D FTP Solution apart from other FTP solutions on the market today.

GigaSPEED
X10D

SYSTIMAX GigaSPEED X10D Performance Specifications

Freq (MHz)	Insertion Loss (dB)	PS ANEXT (dB)	PS AELFEXT (dB)	Pr-pr NEXT (dB)	ACR (dB)	PS NEXT (dB)	PS ACR (dB)	Pr-pr ELFEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
1	4.0	67.0	67.0	65.0	62.8	62.0	59.8	65.0	62.0	19.0
4	4.1	67.0	65.0	63.0	58.9	60.5	56.4	53.5	50.5	19.0
8	5.7	67.0	58.9	58.2	52.5	55.6	49.9	47.4	44.4	19.0
10	6.4	67.0	57.0	56.6	50.2	54.0	47.6	45.5	42.5	19.0
16	8.1	67.0	52.9	53.2	45.1	50.6	42.5	41.4	38.4	18.0
20	9.1	67.0	51.0	51.6	42.5	49.0	39.9	39.5	36.5	17.5
25	10.2	66.0	49.0	50.0	39.8	47.3	37.1	37.5	34.5	17.0
31.2	11.4	65.1	47.1	48.4	37.0	45.7	34.3	35.6	32.6	16.5
62.5	16.3	62.0	41.1	43.4	27.1	40.6	24.3	29.6	26.6	14.0
100	20.8	60.0	37.0	39.9	19.1	37.1	16.3	25.5	22.5	12.0
200	30.0	55.5	31.0	34.8	4.8	31.9	1.9	19.5	16.5	9.0
250	33.8	54.0	29.0	33.1	-0.7	30.2	-3.6	17.5	14.5	8.0
300	37.3	52.8	27.5	31.7	-5.6	28.8	-8.5	16.0	13.0	7.2
400	43.6	51.0	25.0	29.6	-14.0	26.6	-17.0	13.5	10.5	6.0
500	49.3	49.5	23.0	27.9	-21.4	24.8	-24.5	11.5	8.5	6.0

Note: values at specific frequencies for information only.

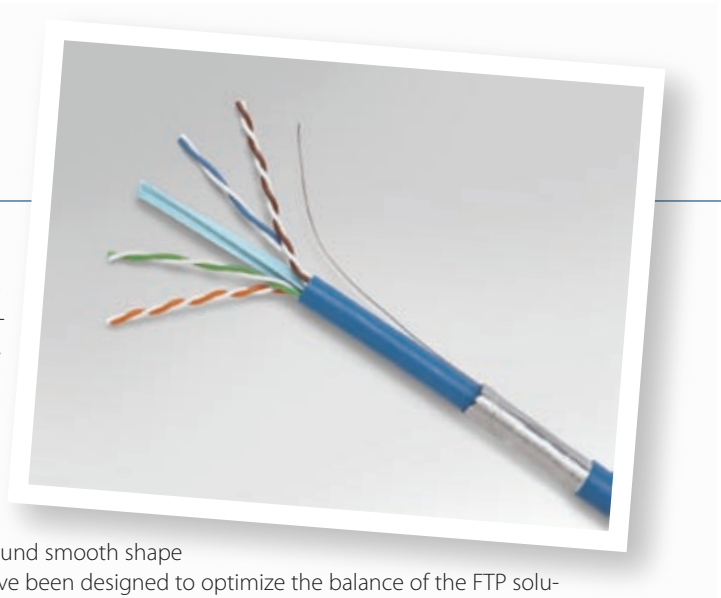
The SYSTIMAX GigaSPEED X10D FTP Solution offers guaranteed channel performance to the above specifications for registered SYSTIMAX SCS installations. Please contact your SYSTIMAX Solutions representative for a GigaSPEED X10D FTP Solution Guide and GigaSPEED X10D FTP Design and Installation Guidelines.

* IL and PSANEXT requirement of the proposed TIA-568-B.2-AD10 for the category 6A ScTP cabling are different from the ISO Class E_A requirements. PSANEXT is 2dB more stringent while IL is relaxed to Category 6 level across the entire frequency band. Note that IL is a critical parameter generic to all applications while PSANEXT is specific to IEEE 10GBASE-T. The GigaSPEED X10D FTP solution incorporates the best of these proposed standards. The GigaSPEED X10D FTP channel meets or exceeds all ISO Class E_A requirements as well as TIA Cat-6A PSANEXT requirement.

91 Series GigaSPEED® X10D FTP Cable

The SYSTIMAX GigaSPEED X10D 91 Series FTP Cable exhibits excellent crosstalk performance, enabled via patented high-technology pair isolator (improves pair separation and also cable flexibility), an inner jacket and an optimized twist and strand scheme, dramatically enhancing high-frequency performance using the SYSTIMAX Labs Cable Twist Accuracy Technology.

The GigaSPEED X10D 91 Series FTP Cables have been optimized with the GigaSPEED X10D FTP connectors and cords to minimize internal channel crosstalk, and also crosstalk between channels in close proximity. The 91 Series Cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to optimize the balance of the FTP solution. The 91 Series FTP Cables have been specified out to 500 MHz to support high bandwidth applications operating at 10 Gbps.



Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of TIA 568-B.2-1 Category 6, ISO/IEC 11801 Class E, and the current TIA Category 6A and proposed ISO/IEC Class E_A Ed. 2.1 up to 500 MHz when used as part of a GigaSPEED X10D FTP Channel in registered SYSTIMAX installations
- 4-pair construction with aluminum foil tape and isolator center member provides extra margin of performance required for high-bandwidth applications.
- 1291 Non-Plenum cable is UL listed as CMR and C(UL)CMG. This cable is constructed with an inner and outer jacket.
- 2291 Plenum cable* is UL listed as CMP. This cable is constructed with a single jacket.
- 3291 LSZH cable meets the requirements of IEC 60332-3. This cable is constructed with an inner and outer jacket.
- UL® Listed - 1291 Riser rated CMR and C(UL) CMG
- IEC Certified - 3291 LSZH rated IEC 60332-3
- Can support network line speeds up to at least 10 Gbps
- Qualifies for the SYSTIMAX SCS 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D FTP channel

**call for availability*

Physical Specifications:

	1291	3291
Nominal Outer Jacket OD:	0.315 in (8.0 mm)	0.315 in (8.0 mm)
Nominal Outer Jacket Thickness:	0.020 in (0.51 mm)	0.020 in (0.51 mm)
Nominal Inner Jacket OD:	0.255 in (6.48 mm)	0.260 in (6.60 mm)
Nominal Inner Jacket Thickness:	0.018 in (0.46 mm)	0.018 in (0.46 mm)
Maximum Pulling Tension:	25 lbs (11.34 kg)	25 lbs (11.34 kg)
Installation Temperature:	4°C to 60 °C	4°C to 60 °C
Operating Temperature:	-20°C to 60°C	-20°C to 60°C

Electrical Specifications:

Characteristic	Limit / 100 m	Range (MHz)
Conductor Resistance:	7.6 Ω @ 20 °C	
Resistance Unbalance:	3.0%	
Mutual Capacitance:	5.6 nF	1 KHz
Dielectric Strength:	2500 Volts DC (2 sec)	-
UL and CUL	CMR, CMG	

Product Number	Detailed Description	Color	Material ID
1291 004ABL 4/23 R1000	Non-Plenum PVC Cable	Blue	760060764
1291 004AGR 4/23 R1000	Non-Plenum PVC Cable	Green	760060780
1291 004AOR 4/23 R1000	Non-Plenum PVC Cable	Orange	760060756
1291 004ASL 4/23 R1000	Non-Plenum PVC Cable	Slate	760060772
1291 004AWH 4/23 R1000	Non-Plenum PVC Cable	White	760060749
3291 004ABL 4/23 R1000	LSZH Cable	Blue	760060855
3291 004AWH 4/23 R1000	LSZH Cable	White	760060848

GigaSPEED
X10D

GigaSPEED® X10D M3200 Modular FTP Patch Panel



The SYSTIMAX GigaSPEED X10D M3200 Modular Patch Panel is a patch panel for M-Series FTP outlets that can be configured for copper, fiber, or both and is available in a 24-port version. The M3200 panel mounts in a 19-inch (483 mm) rack with universal hole spacing.

The M3200 panel incorporates rear cable management for consistent cable routing and grounding studs for reliable grounding of the cable shield. The M3200 includes a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet, and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of TIA 568-B.2-1 Category 6, ISO/IEC 11801 Class E, and the current TIA Category 6A and proposed ISO/IEC Class E_A Ed. 2.1 up to 500 MHz when used with MFP520 connectors as part of a GigaSPEED X10D FTP Channel in registered SYSTIMAX installations
- Available in 24-port configuration
- Labeling and identification for each port
- Supports copper and fiber connectors
- Qualifies for the SYSTIMAX SCS 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D FTP channel

Physical Specifications:

Height: 24-Ports: 1.75 in (4.45 cm)
48-Ports: 3.50 in (8.83 cm)

Width: 19 in (48.20 cm)

Depth: 4.16 in (10.60 cm)

Product Number	Detailed Description	Material ID
M3200	(1) M3200 Modular Patch Panel	760058578
M3200 Custom Label Kit	8.5x11 6 rows of 12 labels, supports 6U of labeling	760060392

GigaSPEED
X10D

MFP520 GigaSPEED® X10D FTP Information Outlet

The SYSTIMAX GigaSPEED X10D MFP520 information outlet is the latest result of many years of continuous product development at SYSTIMAX Labs. The MFP520 features patent-pending crosstalk cancellation and compensation techniques. A unique opaque aqua-colored inner tab identifies the unparalleled compensation technology.

The MFP520 information outlet, used throughout the GigaSPEED X10D FTP channel, exhibits extended frequency crosstalk suppression enable via innovative Printed Wiring Board (PWB) compensation technologies. The MFP520 incorporates a metallized body and capsule, plus an innovative grounding connection to ensure consistent bonding performance.



GigaSPEED
X10D

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of TIA 568-B.2-1 Category 6, ISO/IEC 11801 Class E, and the current TIA Category 6A and proposed ISO/IEC Class E_A Ed. 2.1 up to 500 MHz when used as part of a GigaSPEED X10D FTP Channel in registered SYSTIMAX installations
- Snaps into standard SYSTIMAX M-Series faceplates, surface-mount boxes, consolidation point boxes, SYSTIMAX M3200 panels
- Universal design and label supports both T568A and T568B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cables
- Optional Plastic Icons (M61A) and Dust Covers (M20A) available in several colors
- Optimal performance is achieved when using the GigaSPEED X10D G10FP patch cords
- UL® listed
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D FTP Solution
- Qualifies for the SYSTIMAX SCS 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D FTP channel

Physical Specifications:

Width: 0.80 in (20 mm)
Length: 1.61 in (41 mm)
Depth: 0.82 in (21 mm)
Plastic: High-impact, flame retardant, UL-rated 94V-0 thermoplastic
Jack Wires: Copper alloy, 1.27 µm lubricated gold plating over 2.54 µm nickel underplate
Connectors: Copper alloy, 2.54 µm bright solder over 2.54 µm nickel underplate
Insertion Life: >750 insertions of an FCC 8 position telecommunications plug
Min. Contact Force: 100 g using FCC approved modular plug
Min. Plug Retention Force: 133 N
Operating Temperature Range: 14° F to 140° F (-10° C to 60° C)

Electrical Specifications:

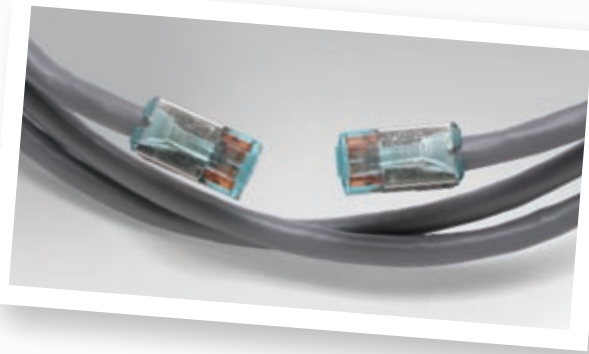
Min. Insulation Resistance: 500 Megaohms minimum
Min. Dielectric Withstand Voltage: 1000 V DC or AC peak
Min. Dielectric Withstand Voltage: 1500 V DC or AC peak (contact to contact DC or @ 60Hz)
Max. Contact Resistance: 20 mΩ (contact to exposed conductive surface, DC or @ 60Hz)
Current Rating @ 20°C: 1.5 A

Product Number	Detailed Description	Material ID
MFP520	FTP Information Outlet	760061291

GS10FP GigaSPEED® X10D FTP Modular Patch Cord

SYSTIMAX Solutions has developed the new SYSTIMAX GigaSPEED X10D G10FP patch cord to support the GigaSPEED X10D FTP channel. Along with GigaSPEED X10D FTP cable and patching hardware, SYSTIMAX Labs has characterized the performance of these cords in thousands of different channel configurations using the Modal Decomposition Modeling (MDM) tool.

The high performance G10FP modular patch cord family has a patent pending plug design featuring a distinctive metallized body and anti-snag latch for easy and rapid field identification. The G10FP plug exhibits a dramatic reduction in variation of performance via the innovative plug design. A compact crimp ring ensures secure and reliable contact between cable shield and plug, also allowing a low profile to rear of the plug housing.



Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of TIA 568-B.2-1 Category 6, ISO/IEC 11801 Class E, and the current TIA Category 6A and proposed ISO/IEC Class E_A Ed. 2.1 up to 500 MHz when used as part of a GigaSPEED X10D FTP Channel in registered SYSTIMAX installations
- UL® listed (CM)
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D FTP Solution
- Qualifies for the SYSTIMAX SCS 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D FTP channel

Physical Specifications:

Operating Temperature Range: 14° F to 140° F (-10° C to 60° C))

Contact Stability: 20 mΩ max. change

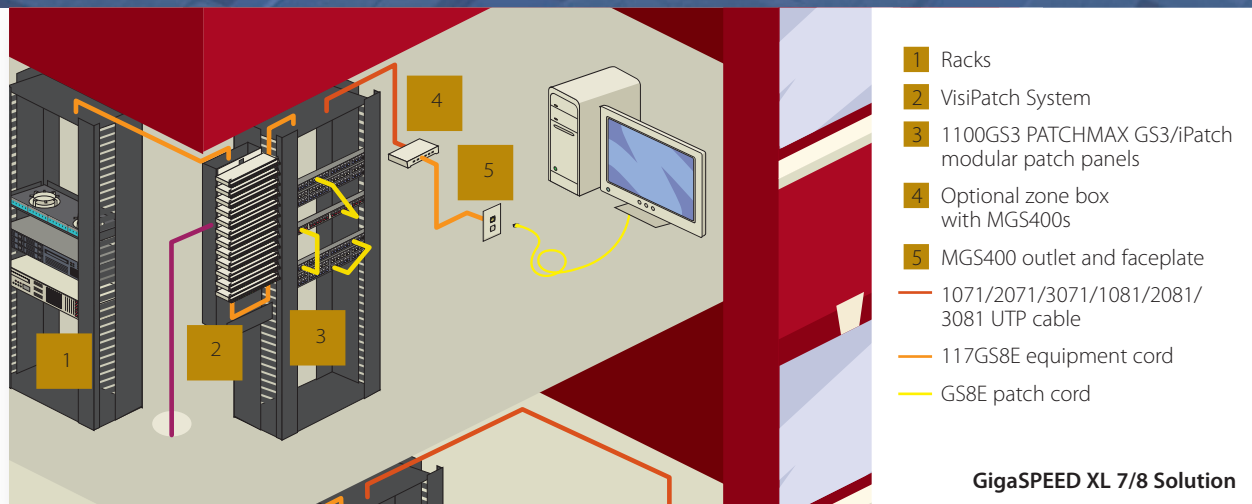
Insertion Life: 750 insertions

Contact Plating: 1.27 µm Gold over 2.540 µm Nickel

Product Number	Detailed Description	Packaging	Color	Material ID
G10FP	PVC Cord	1/Pkg	Dark Gray, Light Blue	CPCGGJ2
G10FP-L	LSZH Cord	1/Pkg	White	CPCGGL2



GigaSPEED® XL Solution Exceeding Category 6



Features and Benefits:

- Performance guaranteed to meet or exceed Category 6/Class E Channel Specifications to 250 MHz
- Performance guaranteed up to 6 connections in any length channel configuration up to 100 meters
- Channel optimized using Modal Decomposition Modeling
- Supports IEEE 802.3 1000BASE-T, TIA-854-A 1000BASE-TX, ATM Forum CB1G plus other legacy LANs and applications (Video, BAS)
- Backward compatible with existing SYSTIMAX cable and connecting hardware

SYSTIMAX channels comprised of GigaSPEED XL passive products are capable of delivering potentially in excess of 1.2 Gbps to the workstation in accordance with application standards and are eligible for the SYSTIMAX SCS 20-Year Extended Product Warranty and Applications Assurance.

GigaSPEED XL products include:

- 4-Pair 1071/2071/3071 UTP Cables
- 4-Pair 1081/2081/3081 UTP Cables
- PATCHMAX GS3 and 1100GS3 Modular Patch Panels
- MGS400 Telecommunications Outlets
- GS8E Patch and Workstation Cords
- VisiPatch 360 System
- VisiPatch System
- 110VP, 117VP and 119VP Patch Cords

GigaSPEED® XL7 Specifications

SYSTIMAX GigaSPEED XL7 Category 6 Guaranteed Channel Performance

Guaranteed Performance Specifications for GigaSPEED XL7 Solution

Electrical Parameter (1 - 250 MHz)	Guaranteed Channel Margins to Category 6/Class E TIA 568B.2-1 and ISO 11801 Edition 2.0
Insertion Loss	5.0 %
NEXT	6.0 dB
PSNEXT	7.5 dB
ELFEXT	6.0 dB
PSELFEXT	8.0 dB
Return Loss	4.0 dB

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	2.0	71.0	69.0	69.5	67.5	69.3	68.3	23.0	580	30
4.0	3.8	69.0	65.2	68.0	64.2	57.2	56.2	23.0	562	30
8.0	5.4	64.2	58.8	63.1	57.7	51.2	50.2	23.0	557	30
10.0	6.0	62.6	56.6	61.5	55.5	49.3	48.3	23.0	555	30
16.0	7.6	59.2	51.6	58.1	50.4	45.2	44.2	22.0	553	30
20.0	8.6	57.6	49.1	56.5	47.9	43.2	42.2	21.5	552	30
25.0	9.6	56.0	46.4	54.8	45.2	41.3	40.3	21.0	551	30
31.25	10.8	54.4	43.6	53.2	42.4	39.4	38.4	20.5	550	30
62.5	15.6	49.4	33.7	48.1	32.4	33.3	32.3	18.0	549	30
100.0	20.2	45.9	25.7	44.6	24.3	29.3	28.3	16.0	548	30
200.0	30.0	40.8	10.8	39.4	9.4	23.2	22.2	13.0	547	30
250.0	34.1	39.1	5.0	37.7	3.5	21.3	20.3	12.0	546	30

Note: The table provides reference values only. All parameters comply with the governing equations over the entire frequency range. All values and equations apply to worst-case channels utilizing 4-pair 71E series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for any channel lengths up to 100 meters.

GigaSPEED® XL8 Specifications

SYSTIMAX GigaSPEED XL8 Category 6 Guaranteed Channel Performance

Guaranteed Performance Specifications for GigaSPEED XL8 Solution

Electrical Parameter (1 – 250 MHz)	Guaranteed Channel Margins to Category 6/Class E TIA 568B.2-1 and ISO 11801 Edition 2.0
Insertion Loss	8.0 %
NEXT	7.0 dB
PSNEXT	8.5 dB
ELFEXT	8.0 dB
PSELFEXT	10.0 dB
Return Loss	4.0 dB

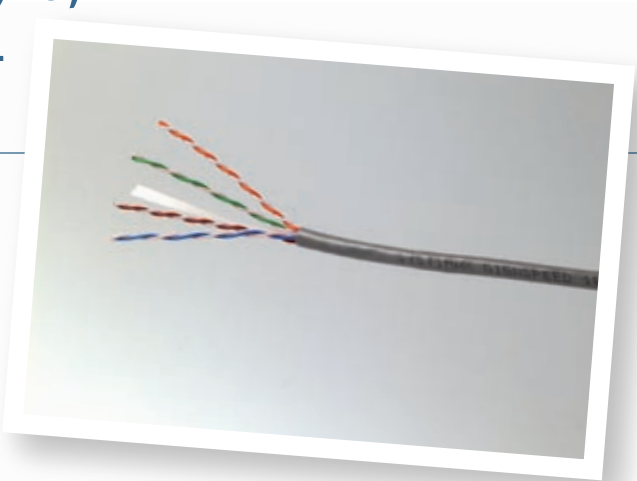
Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	2.0	72.0	70.0	70.5	76.8	71.3	70.3	23.0	580	30
4.0	3.7	70.0	66.3	69.0	65.3	59.2	58.2	23.0	562	30
8.0	5.2	65.2	59.9	64.1	58.9	53.2	52.2	23.0	557	30
10.0	5.8	63.6	57.7	62.5	56.7	51.3	50.3	23.0	555	30
16.0	7.4	60.2	52.8	59.1	51.7	47.2	46.2	22.0	553	30
20.0	8.3	58.6	50.3	57.5	49.2	45.2	44.2	21.5	552	30
25.0	9.3	57.0	47.7	55.8	46.5	43.3	42.3	21.0	551	30
31.25	10.5	55.4	44.9	54.2	43.7	41.4	40.4	20.5	550	30
62.5	15.2	50.4	35.1	49.1	33.9	35.3	34.3	18.0	549	30
100.0	19.6	46.9	27.2	45.6	26.0	31.3	30.3	16.0	548	30
200.0	29.0	41.8	12.6	40.4	11.3	25.2	24.2	13.0	547	30
250.0	33.1	40.1	6.9	38.7	5.6	23.3	22.3	12.0	546	30

Note: The table provides reference values only. All parameters comply with the governing equations over the entire frequency range. All values and equations apply to worst-case channels utilizing 4-pair 81A series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for any channel lengths up to 100 meters.

GigaSPEED
XL

Non Plenum Category 6, 1071E GigaSPEED® XL Cable

The 1071E 4-Pair GigaSPEED XL cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. Further, these cables are UL verified as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.



Physical Specifications:

Weight: 25.6 lbs/1,000 ft (38.2 kg/km)
Nominal Jacket Thickness: 0.022 in (0.56 mm)
Nominal Outside Diameter: 0.232 in (5.89 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

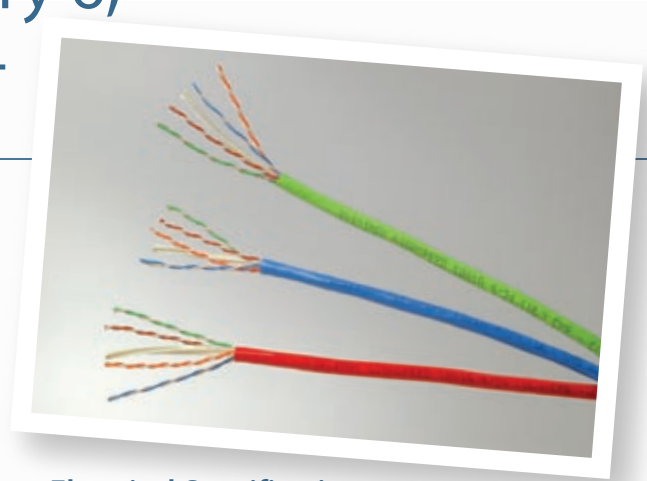
Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.2-1 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
UL and cUL: CMR

Product Number	Pair Count	Color	Length	Package	Material ID
1071 004EBK 4/23 W1000	4	Black	1,000 ft (305 m)	We Tote Box	700212129
1071 004EBL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760004697
1071 004EBL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760004689
1071 004ELB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	700211956
1071 004ELB 4/23 R3000	4	Light Blue	3,000 ft (914 m)	Reel	760040105
1071 004ELB 4/23 W1000	4	Light Blue	1,000 ft (305 m)	We Tote Box	700211964
1071 004ELL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	700212087
1071 004ELL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We Tote Box	700212095
1071 004EOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	700212111
1071 004EOR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	700212103
1071 004EPK 4/23 W1000	4	Pink	1,000 ft (305 m)	We Tote Box	760011858
1071 004EPR 4/23 W1000	4	Purple	1,000 ft (305 m)	We Tote Box	760039644
1071 004ERD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	700212012
1071 004ERD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	700212020
1071 004ESL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700211923
1071 004ESL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760040097
1071 004ESL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	700211931
1071 004EGN 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	700212053
1071 004EGN 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We Tote Box	700212061
1071 004EWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700214208
1071 004EWH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760040089
1071 004EWH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	700212046
1071 004EYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	700211980
1071 004EYL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	700211998
1071 004E1YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760049254

Non Plenum Category 6, 1081 GigaSPEED® XL Cable

The 81 series cables feature an innovative fluted design which provides significant margin (headroom) (10 dB) above the minimum Category 6 Near End Crosstalk (NEXT) and Powersum NEXT requirements in TIA/EIA 568B. Further, these cables are UL verified as Category 6.



Physical Specifications:

Weight: 28.2 lbs/1,000 ft (42.1 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.240 in (6.10 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.2-1 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
UL and cUL: CMR

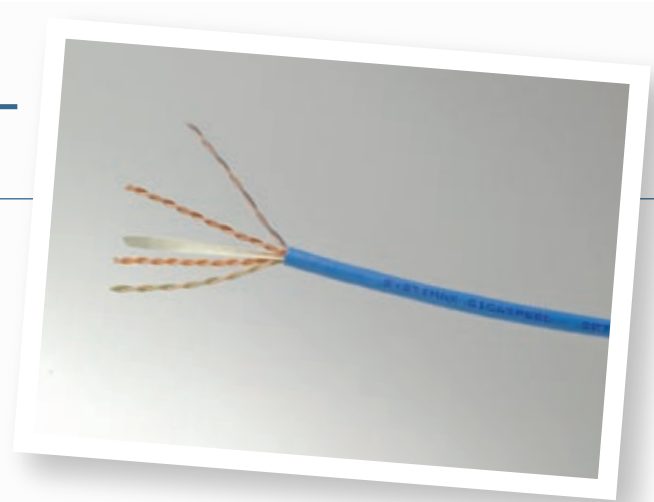
GigaSPEED
XL

Product Number	Pair Count	Color	Length	Package	Material ID
1081 004ABK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	108744954
1081 004ABL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	108680869
1081 004ABL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	108744947
1081 004AGN 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	108681131
1081 004AIV 4/23 R1000	4	Ivory	1,000 ft (305 m)	Reel	108680877
1081 004ALB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	108680810
1081 004ALL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	108681149
1081 004AOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	108681156
1081 004ARD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	108680893
1081 004ASL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	108680802
1081 004ASL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	108744921
1081 004AWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	108681115
1081 004AWH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	108744939
1081 004AYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	108680885

Plenum Category 6, 2071E GigaSPEED® XL Cable

The 2071E 4-pair GigaSPEED XL cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. Further, these cables are UL verified as Category 6. The 71E GigaSPEED XL cables features a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

The 2071E 4-pair cable is composed of bare solid copper conductors insulated with Fluorinated-Ethylene-Propylene (FEP). The core of twisted pairs is jacketed with a low smoke PVC. It conforms to the low flame, low smoke requirements of the NEC.



Physical Specifications:

Weight: 29.1 lbs/1,000 ft (13.2 kg/304.8 m)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.224 in (5.69 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 71%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.2-1 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
UL and cUL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2071 004EBK 4/23 RVAR	4	Black	Customer Length	Reel	860062835
2071 004EBK 4/23 W1000	4	Black	1,000 ft (305 m)	We Tote Box	700210230
2071 004EBK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	700210222
2071 004EBL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	700210081
2071 004EBL 4/23 R3000	4	Blue	3,000 ft (915 m)	Reel	700210099
2071 004EBL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	700208093
2071 004ELL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	700210206
2071 004ELL 4/23 R3000	4	Lilac	3,000 ft (915 m)	Reel	760021212
2071 004ELL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We Tote Box	700210214
2071 004EOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	700210008
2071 004EOR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	700210024
2071 004EPK 4/23 R1000	4	Pink	1,000 ft (305 m)	Reel	760038554
2071 004EPK 4/23 W1000	4	Pink	1,000 ft (305 m)	We Tote Box	760011841
2071 004EPR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760055830
2071 004ERD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	700210248
2071 004ERD 4/23 R3000	4	Red	3,000 ft (915 m)	Reel	760043158
2071 004ERD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	700210263
2071 004ESL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700210198
2071 004ESL 4/23 R3000	4	Slate	3,000 ft (915 m)	Reel	760005652
2071 004ESL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	700214372
2071 004EGN 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	700210156
2071 004EGN 4/24 R3000	4	Spring Green	3,000 ft (915 m)	Reel	760021204
2071 004EGN 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We Tote Box	700210164
2071 004EWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700210032
2071 004EWH 4/23 R3000	4	White	3,000 ft (915 m)	Reel	700210057
2071 004EYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	700210131

Product Number	Pair Count	Color	Length	Package	Material ID
2071 004EYL 4/23 R3000	4	Yellow	3,000 ft (914 m)	Reel	760047555
2071 004EYL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	700210123

Plenum Category 6, 2081 GigaSPEED® XL Cable

The 81 series cables feature an innovative fluted design which provides significant margin (headroom) (10 dB) above the minimum Category 6 Near End Crosstalk (NEXT) and Powersum NEXT requirements in TIA/EIA 568B. Further, these cables are UL verified as Category 6.

Physical Specifications:

Weight: 36.0 lbs/1,000 ft (53.7 kg/km)

Nominal Jacket Thickness: 0.019 in (0.48 mm)

Nominal Outside Diameter: 0.250 in (6.35 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 72%

Maximum DC Resistance: 7.61 Ohms/100 m

Maximum DC Resistance Unbalance: 3%

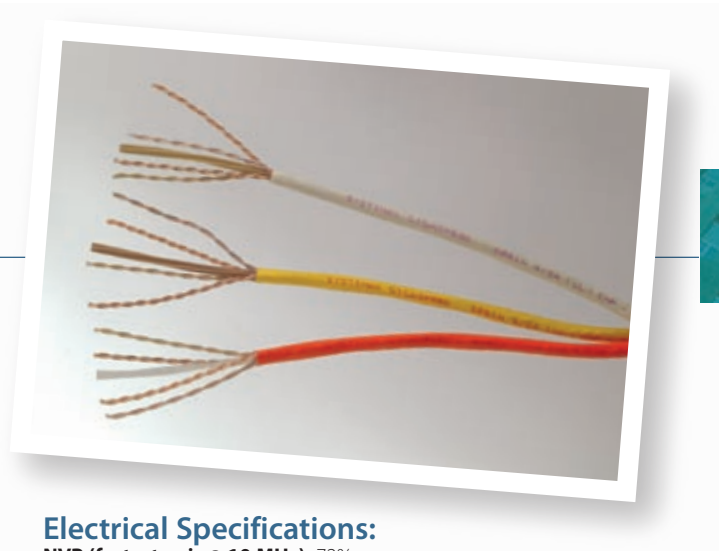
Mutual Capacitance at 1 kHz: 5.6 nF/100 m

Standards: ANSI/TIA/EIA 568B.2-1 Category 6

ISO/IEC 11801: 2002 (Edition 2) Class E

CENELEC EN50173: 2002 (Edition 2) Category 6

UL and cUL: CMP



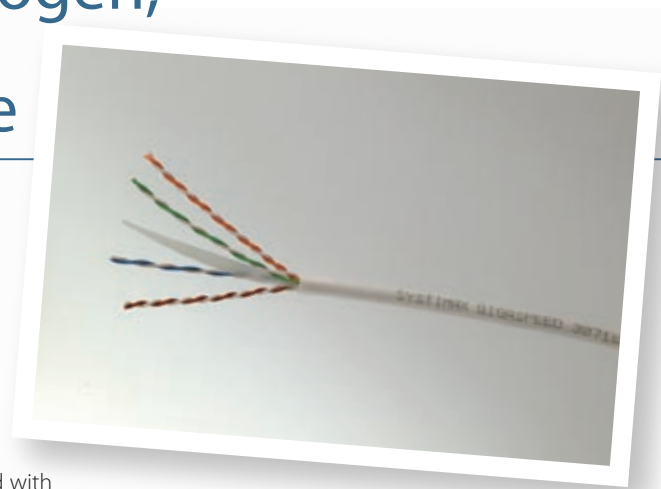
GigaSPEED
XL

Product Number	Pair Count	Color	Length	Package	Material ID
2081 004ABK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	108681230
2081 004ABL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	108681180
2081 004ABL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760001354
2081 004AGN 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	108681206
2081 004ALL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	108681222
2081 004ALL 4/23 R3000	4	Lilac	3,000 ft (914 m)	Reel	108830753
2081 004AOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	108681164
2081 004AOR 4/23 R3000	4	Orange	3,000 ft (914 m)	Reel	760006619
2081 004ARD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	108681248
2081 004ARD 4/23 R3000	4	Red	3,000 ft (914 m)	Reel	108830761
2081 004ASL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	108681214
2081 004ASL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760001339
2081 004AWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	108681172
2081 004AWH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760001347
2081 004AYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	108681198
2081 004AYL 4/23 R3000	4	Yellow	3,000 ft (914 m)	Reel	760001321

Low Smoke Zero Halogen, Category 6, 3071E GigaSPEED® XL Cable

The 3071E 4-pair GigaSPEED XL cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. Further, these cables are UL verified as Category 6. The 71E GigaSPEED XL cables features a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

3071E cable is composed of solid copper conductors insulated with non-halogen high-density polyethylene and jacketed with a low smoke zero halogen compound.



Physical Specifications:

Weight: 25.0 lbs/1,000 ft (37.3 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.231 in (5.87 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

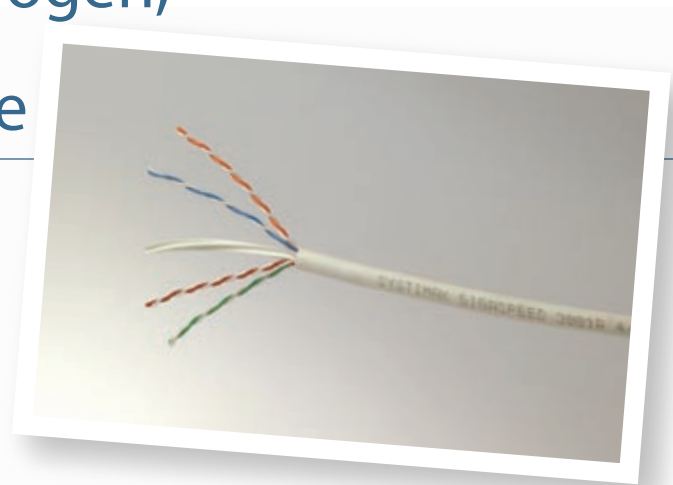
NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.2-1 Category 6
 ISO/IEC 11801: 2002 (Edition 2) Class E
 CENELEC EN50173: 2002 (Edition 2) Category 6
 IEC 754 part 2, Non-halogen based on pH and conductivity measurements
 IEC 1034 part 2, Smoke emission
 IEC 332 part 1, Flammability and fire retardant
 NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3071 004EWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700216443
3071 004EWH 4/23 R4400	4	White	4,400 ft (1341 m)	Reel	700216476
3071 004EWH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	700216450

GigaSPEED
XL

Low Smoke Zero Halogen, Category 6, 3081 GigaSPEED® XL Cable

The 81 series cables feature an innovative fluted design which provides significant margin (headroom) (10 dB) above the minimum Category 6 Near End Crosstalk (NEXT) and Powersum NEXT requirements in TIA/EIA 568B. Further, these cables are UL verified as Category 6.



Physical Specifications:

Weight: 35.0 lbs/1,000 ft (52.2 kg/km)

Nominal Jacket Thickness: 0.020 in (0.51 mm)

Nominal Outside Diameter: 0.262 in (6.65 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%

Maximum DC Resistance: 7.61 Ohms/100 m

Maximum DC Resistance Unbalance: 3%

Mutual Capacitance at 1 kHz: 5.6 nF/100 m

Standards: ANSI/TIA/EIA 568B.2-1 Category 6

ISO/IEC 11801: 2002 (Edition 2) Class E

CENELEC EN50173: 2002 (Edition 2) Category 6

IEC 754 part 2, Non-halogen based on pH and conductivity measurements

IEC 1034 part 2, Smoke emission

IEC 332 part 3, Flammability and flame retardant

NES 713: Toxicity index

GigaSPEED
XL

Product Number	Pair Count	Color	Length	Package	Material ID
3081 004ABL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	108687674
3081 004ABL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	108687690
3081 004AWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	108687658
3081 004AWH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	108687682

Plenum Category 6, GigaSPEED® 4070 Limited Combustible Cable

The SYSTIMAX GigaSPEED 4070 limited combustible cable meets the TIA/EIA Category 6 and UL-444 (CMP) standards. Jacketed and insulated with an FEP fluoropolymer resin, the cable also meets the UL requirement FHC 25/50 (limited combustible cable). The superior combination of fire safety and electrical performance makes 4070 an ideal candidate for applications requiring high speed, high bandwidth and high margin of fire safety. The limited combustible cables are also resistant to performance changes due to aging or environmental conditions, totally recyclable, chemical resistant and heavy metal free.



See protection product section for Category 6 protector units.

Physical Specifications:

Weight: 25.9 lbs/1,000 ft (38.6 kg/km)
Nominal Jacket Thickness: 0.010 in (0.25 mm)
Nominal Outside Diameter: 0.198 in (5.03 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

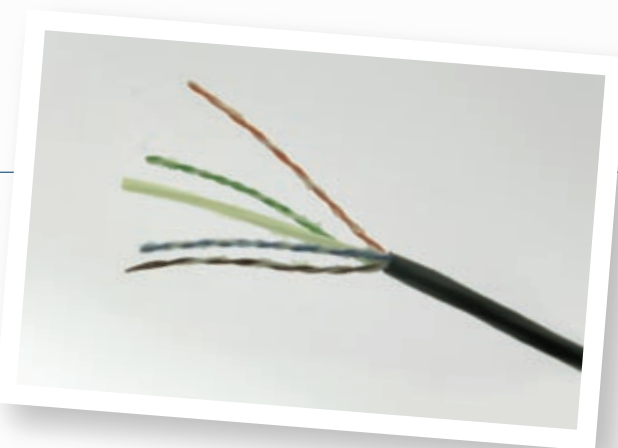
Electrical Specifications:

NVP (fastest pair @ 10 MHz): 71%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.2-1 Category 6
ISO/IEC 11801: 2002 (Edition 2) Class E
CENELEC EN50173: 2002 (Edition 2) Category 6
UL and cUL: CMP, FHC 25/50

Product Number	Pair Count	Color	Length	Package	Material ID
4070 004ATL 4/23 R1000	4	Translucent	1,000 ft (305 m)	Reel	700201361

Category 6, Outdoor 1571 Cable

The SYSTIMAX Category 6, Outdoor 1571 cable consists of polyethylene, insulated conductors, tightly twisted into four pairs. The pairs are stranded around a polyolefin fluted center member, filled with a flooding compound and jacketed with a black polyethylene jacket. The 1571 cable is fully compliant with Category 6 requirements of TIA/EIA 568B.2-1 and ISO/IEC 11801.



Physical Specifications:

Weight: 27.3 lbs/1,000 ft (40.6 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.250 in (6.35 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -40°F to 140°F (-40°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 62%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: Category 6
TIA/EIA 568B.2-1
ISO/IEC 11801

Product Number	Pair Count	Color	Length	Package	Material ID
1571 004ABK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	760008888
1571 004ABK 4/23 R3280	4	Black	3,280 ft (1000 m)	Reel	760022129

1100GS3 GigaSPEED® XL Modular Patch Panel

The 1100GS3 Modular Patch Panel is a 19-inch rack or wall mountable 8-pin modular jack panel that accommodates repeated line moves, additions and rearrangements. Installation is easy using proven 110 IDC gas tight terminations in the back with easy-to-read labeling guides. Designed by SYSTIMAX Labs as part of the fully tuned and integrated GigaSPEED XL cabling solutions, the 1100GS3 provides an industry standard panel footprint but with many performance and feature extras.

The SYSTIMAX 1100GS3 panel is angled to allow the cable to flow to each side of the rack. This enables the patch cords to be routed directly into vertical cable managers. It also allows the labeling scheme and port identification to be visible at all times.

The 1100GS3 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and new rear housing provide for easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed TIA/EIA 568B.2-1 Category 6 and ISO/IEC Category 6/Class E specifications
- Vertical and horizontal cord organizers available to improve patch cord management
- Available in 24- and 48-port configurations featuring universal A/B labeling
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable
- Attractive black powder covered high-strength steel panel comes equipped with a removable rear mounted cable management bar
- Can support network line speeds in excess of 1 Gbps
- Each panel comes ready to install, including front and rear labels
- Backward compatible with Category 5e, 5 and 3 cords and cables, however optimal performance is achieved when used with GigaSPEED GS8E patch cords
- Certified component of an integrated GigaSPEED XL Solution
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a registered SYSTIMAX GigaSPEED channel

Physical Specifications:

Height: 24-Ports: 1.74 in (4.38 cm)

48-Ports: 3.50 in (8.83 cm)

Width: 19 in (48.26 cm)

Depth: 1.60 in (4.06 cm)

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Material: Copper alloy. Plating: Gold flash over 50 micro-inch (1.3 micron) nickel underplate. Insulation displacement connectors accept solid or stranded wire

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Insulation Types: All plastic insulates, including: PVC, irradiated PVC, Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon, and FEP

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation resistance: 500 megaohms minimum

Current rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 6

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL listed

Product Number	Wiring	Number of Ports	Material ID
1100GS3-24	Universal A/B	24xRJ45	760062372
1100GS3-48	Universal A/B	48xRJ45	760062380
1100AGS3-24-Angled	Universal A/B	24xRJ45	760066563
1100AGS3-48-Angled	Universal A/B	48xRJ45	760066571
1100GS3-DM			760065771
6-Port PM/1100	Icon Label Holder Kit	4/Kit	760001404
1100PM Panel Label Kit	Panel Label Kit	5/Kit (32 labels/sheet)	760072116

GigaSPEED
XL

1100GS3 Multimedia Distribution Hardware



1100GS3 Multimedia panel product lines are made up of basic panel kits and various copper and fiber modules with LC, SC, ST adapters. The 1100GS3 panel kits have two configurations. The 1U kit supports four modules, and the 2U kit supports eight modules. There are six adapters in both SC and ST modules and 12 adapters in the LC module.

This modular approach gives the customer total flexibility in selecting the required fiber adapters. In addition, it provides for fiber and GigaSPEED XL copper solutions since both fiber and GigaSPEED XL modules can fit into the same panel kit. This feature also supports existing GigaSPEED XL customers by giving them the option of a cost effective upgrade from copper to fiber solutions by simply replacing the copper modules with the fiber modules in conjunction with the cable changes.

The 1100GS3 Multimedia panel kits can be mounted in 19-inch racks for enterprise applications. Panel kits will include cable retainers and fasteners, labels, mounting screws and installation instructions.

1100GS3 Multimedia Panel

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-1U	1100GS3-1U Panel Kit	4 Modules	760001776
1100GS3-2U	1100GS3-2U Panel Kit	8 Modules	760001784
1100A-GS3-1U	1100A-GS3-1U Panel Kit - Angled	4 Modules	760072082

1100GS3 Multimedia Modules

Product Number	Detailed Description	Modules/Ports	Material ID
1100-DM-GS3-RJ45	1100GS3 Copper Module	6 RJ45	700212137
1100-DM-GS3-LS-SC/SC	1100GS3 LazrSPEED SC Module	6 SC	760001792
1100-DM-GS3-LS-ST/ST	1100GS3 LazrSPEED ST Module	6 ST	760001800
1100-DM-GS3-LS-LC/LC	1100GS3 LazrSPEED LC Module	12 LC	760001818
1100-DM-GS3-MM-SC/SC	1100GS3 OptiSPEED SC Module	6 SC	760001826
1100-DM-GS3-MM-ST/ST	1100GS3 OptiSPEED ST Module	6 ST	760001834
1100-DM-GS3-MM-LC/LC	1100GS3 OptiSPEED LC Module	12 LC	760001842
1100-DM-GS3-SM -SC/SC	1100GS3 TeraSPEED SC Module	6 SC	760001859
1100-DM-GS3-SM-ST/ST	1100GS3 TeraSPEED ST Module	6 ST	760001867
1100-DM-GS3-SM-LC/LC	1100GS3 TeraSPEED LC Module	12 LC	760001875
	Blank Module		760018069

GigaSPEED
XL

PATCHMAX® GS3 GigaSPEED® XL Distribution Hardware

The PATCHMAX GS3 panel system helps unleash the power of an integrated GigaSPEED XL copper and fiberoptic LazrSPEED/TeraSPEED/OptiSPEED cabling solution while maintaining all of the innovative features that have made PATCHMAX unique in the industry. Its unique modularity and patch cord management system continue to provide unmatched flexibility to MIS managers with the ability to mix and match copper and fiber media in the same panel.

The 19-inch rack mountable patch panel is designed to accept 4 or 8 six-port Distribution Modules (DM) which can be rotated forward, allowing front access to the 110 type IDC terminals for easy cable termination. Built-in horizontal patch cord management brackets provide support for patch cords as well as a holder for the DM modules during installation.

This modular approach gives the customer total flexibility in selecting the required copper and fiber adapters. In addition it provides for fiber and GigaSPEED XL copper solutions since both fiber and GigaSPEED XL modules can fit into the same panel kit. This feature also supports existing GigaSPEED XL customers by giving them the option of a cost effective upgrade from copper to fiber solutions by simply replacing the copper modules with the fiber modules in conjunction with the cable changes.

The PATCHMAX GS3 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and new rear housing provide for easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.

Physical Specifications:

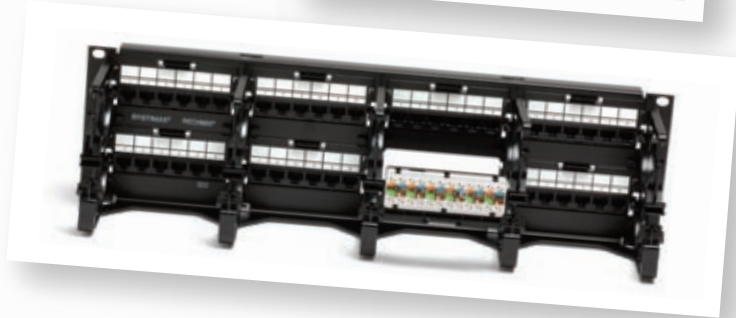
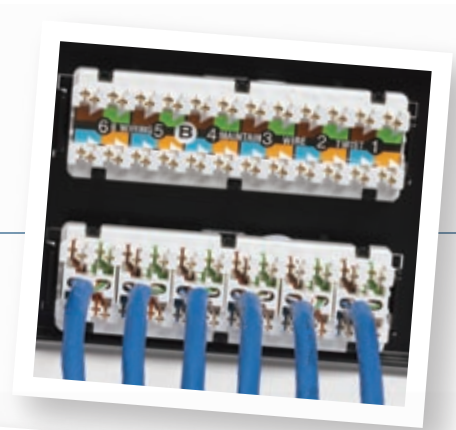
Height: 4 Module Panel: 3.53 in (8.9 cm)
8 Module Panel: 5.29 in (13.34 cm)
Width: 4 Module Panel: 19 in (48.3 cm)
8 Module Panel: 19 in (48.3 cm)
Depth: 4 Module Panel: 8.13 in (20.5 cm)
8 Module Panel: 8.13 in (20.5 cm)
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, 100 micro-inch (2.54 microns) bright solder over 100 micro-inch (2.54 microns) nickel under plate. Insulation displacement connectors accept solid or stranded wire
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17mm)

Insulation Types: All plastic insulates, including: PVC, irradiated PVC, Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon and FEP
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 megaohms minimum
Current Rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 6
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
PM- DM-GS3-MM-LC/LC	PATCHMAX GS3-OptiSPEED LC Module	12 LC	760001735
PM- DM-GS3-SM-SC/SC	PATCHMAX GS3-TeraSPEED SC Module	6 SC	760001743
PM- DM-GS3-SM-ST/ST	PATCHMAX GS3-TeraSPEED ST Module	6ST	760001750
PM- DM-GS3-SM-LC/LC	PATCHMAX GS3-TeraSPEED LC Module	12 LC	760001768
PM-GS3-24	PATCHMAX GS3 Patch Panel with Termination Manager - 24-Port	4 Modules	760062356
PM-GS3-48	PATCHMAX GS3 Patch Panel with Termination Manager - 48-Port	8 Modules	760062364
PM-GS3-DM	PATCHMAX GS3 Distribution Module		760065763



GigaSPEED
XL

Product Number	Detailed Description	Modules/Ports	Material ID
PM- GS3-2U	PATCHMAX GS3-2U Panel Kit (Modules not included)	4 Modules	760001669
PM- GS3-3U	PATCHMAX GS3-3U Panel Kit (Modules not included)	8 Modules	760001677
PM- DM-GS3-LS-SC/SC	PATCHMAX GS3-LazrSPEED SC Module	6 SC	760001685
PM- DM-GS3-LS-ST/ST	PATCHMAX GS3-LazrSPEED ST Module	6 ST	760001693
PM- DM-GS3-LS-LC/LC	PATCHMAX GS3-LazrSPEED LC Module	12 LC	760001701
PM- DM-GS3-MM-ST/ST	PATCHMAX GS3-OptiSPEED ST Module	6 ST	760001727

GigaSPEED
XL

MGS400 Series GigaSPEED® XL Information Outlet

The MGS400 Information Outlet features proprietary crosstalk cancellation techniques for superior Near End Crosstalk (NEXT and PSNEXT) performance that provides unmatched throughput performance when installed as part of a complete GigaSPEED XL channel. The solution is guaranteed to exceed the Category 6/Class E channel specifications for ISO/IEC and TIA, even under the worst case channel configuration.

Features and Benefits:

- Snaps into any M-Series modular faceplate, frame or surface-mount box
- Can be mounted either at 90 degrees (straight) or 45 degrees (angled)
- Angled feature eliminates the need for special faceplates
- Multicolored identification labels assure fast, accurate installation
- Low-profile wire cap protects against contamination and secures connections
- The MGS400 outlet uses either T568A or T568B wiring

The cap kit contains 25 natural colored cable ties and 25 clear colored MGS covers with strain relief.

Physical Specifications:

Dimensions: HxWxD: 0.8 in x 0.8 in x 1.2 in (2.0 cm x 2.0 cm x 3.1 cm)
Universal A/B Labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, 100 micro-inch (2.54 microns) bright solder over 100 micro-inch (2.54 microns) nickel underplate. Insulation displacement connectors accept solid or stranded wire

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Insulation Type: All plastic insulates, including: Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon and FEP

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

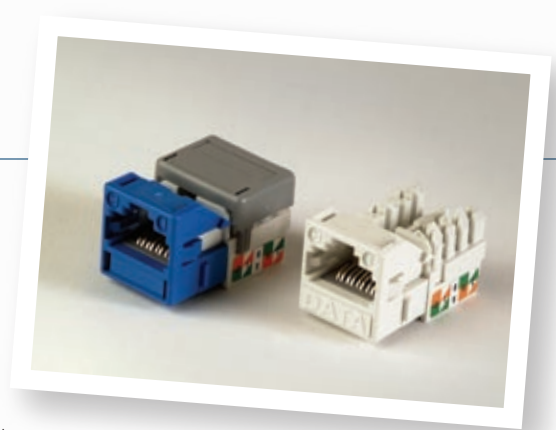
Insulation Resistance: 500 megaohms minimum

Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 6

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL Listed



GigaSPEED
XL

Product Number	Color	Qty/Pkg	Material ID
MGS400-003	Black	1	700206667
MGS400-112	Orange	1	700206683
MGS400-123	Yellow	1	700206691
MGS400-226	Green	1	700206709
MGS400-317	Red	1	700206741
MGS400-318	Blue	1	700206758
MGS400-361	Violet	1	700206675
MGS400-215	Misty Creme	1	760070326
MGS400-246	Ivory	1	700206717
MGS400-270	Gray	1	700206733
MGS400-317-K (Keyed)	Red	1	760006361
MGS400-318	Blue	100	760041996
MGS400-003	Black	100	760041962
MGS400-262	White	100	760041988
MGS400-246	Ivory	100	760041970
MGS400BH-BULK-112	Orange	100	760077156
Handheld Termination Tool Graybar	Gray	100	760037507
Kit: Cap with Strain Relief for MGS Outlet	Clear	4	760056069

GS8E GigaSPEED® XL Modular Patch Cord

The GS8E Modular Patch Cord family of high bandwidth cords form parts of the GigaSPEED XL cabling solution. Electrical performance exceeds TIA/EIA and ISO/IEC Category 6/Class E specifications and is fully backward compatible with Category 5e and 5 connectors.

The GS8H Low Smoke Zero Halogen (LSZH) is a stranded GigaSPEED XL Solution cord.

The GS8L is a 3071 Low Smoke Zero Halogen solid conductor cable which is terminated with the new GS 8-pin connectorized plugs.

The GS8E solid conductor cords consist of solid conductor cable, factory terminated with a GS8E plug(s).

Patented plug design, improved 24 gauge cordage and a unique manufacturing process assures excellent electrical performance and low variability. Improved anti-snag feature provides maximum protection from snagging during moves and rearrangements.

Patch cords are orderable using a 14-character feature configuration coding scheme which replaces the familiar 9-character Material ID. This allows maximum flexibility for ordering many different combinations of plug ends, cordage types, colors and lengths. Please use SYSTIMAX Copper Patch Cord Product Identifier (in Copper Reference Section) for ordering information or contact your SYSTIMAX BusinessPartner.

Physical Specifications:

Contact Material: Phosphor Bronze

Contact Plating: Gold 50 micro-inch (1.27 microns)
Nickel 100 micro-inch (2.54 microns)

Insertion Life: 750 minimum

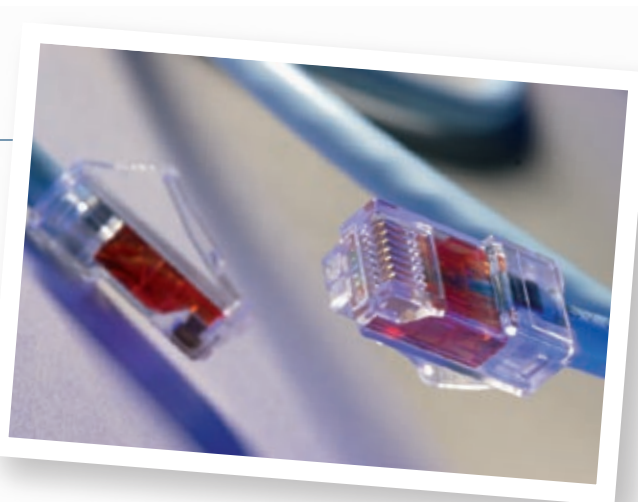
Plug Material: Polycarbonate UL-rated 94 V-O

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

TIA/EIA: Category 6

UL and cUL: CM (cordage)



Product Number	Detailed Description	CPC Code
GS8E	GS3 Stranded Double Ended Cord	CPC3312
GS8EN	GS8EN 1x4, 2x3 Patchcord	CPC3313
Keyed GS8E	Modular Cord	CPC9912
GS8H	LSZH Stranded Cord Double Ended	CPC3392
GS8E-SPD	GS3 Solid Plenum Double Ended	CPC3372
GS8E-SND	GS3 Solid Non Plenum Double Ended	CPC3382
GS8E-SP	GS3 Solid Plenum Single Ended	CPC3472
GS8E-SN	GS3 Solid Non Plenum Single Ended	CPC3482
GS8E-XOVER	GS8E Plenum Crossover	CPC3373
GS8E-Roll Over	GS8E Roll Over	CPC3316
GS8MGS-81B	GS3 RJ45 to MGS Outlet with 81 Series Cable	CPC32A2
GS88	Solid Conductor Cord with 81 Series Cables	CPC33A2
G8C1-SE	Single Ended Cord with 81 Series Cable	CPC34A2

VisiPatch® 360 System

The SYSTIMAX VisiPatch 360 System is a new generation of patching systems that seamlessly incorporates patching and integrated cable management to deliver an ergonomically designed and aesthetically pleasing solution that saves time, space and money.

The VisiPatch 360 System utilizes a unique reverse patching technology that allows the patch cord to be projected away from the user and into the patching field. This design improves cord management by reducing the “spaghetti” cord clutter associated with poorly installed RJ-45 systems and makes reading the labeling information easy, facilitating future moves, adds and changes.

Both port density and usable density are increased in the VisiPatch 360 System. Because of cable and patch cord congestion in traditional RJ-45 systems, the usable density is lower than the port density. The new VisiPatch 360 System, however, is designed to maximize usable density by minimizing cable and cord congestion.

The new VisiPatch 360 System is available for wall-mount as well as rack-mount and cabinet installations. Plus, its modular design means that it is available for small and large installation needs.

Features and Benefits:

- Best-in-class transmission performance
- Supports 10 Gbps and 1 Gbps Ethernet applications
- Compact ergonomic components
- Modular, scalable and flexible
- Increased port density and usable density
- Easy access to patch plug
- Snap-together components
- Unique reverse patching technology
- Clear and simple port labeling
- Sleek and elegant design
- Integrated horizontal and vertical cable and patch cord management

Physical Specifications:

Patch Panel Kits

	Height	Width	Depth
4U (32 ports)	7.1 in (18.03 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)
12U (96 ports)	21.2 in (53.84 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)

Cable Manager Kits - Vertical

	Height	Width	Depth
12U	21.0 in (53.34 cm)	10.0 in (25.40 cm)	11.8 in (29.97 cm)

Electrical Specifications:

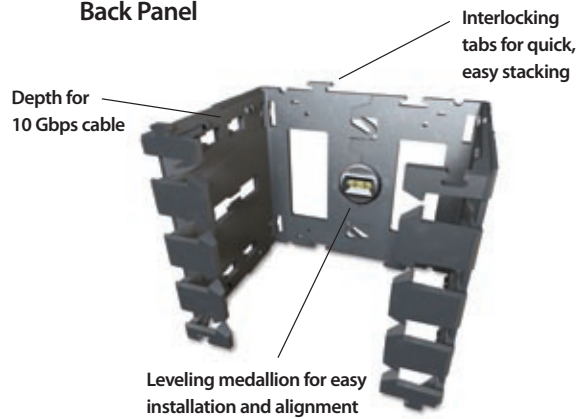
Insulation Resistance:	>1000 MOhms min.
Current Rating:	2.0 A @ 20° C (68° F)
TIA/EIA:	Category 6A
Dielectric Withstand Voltage:	1,000 VAC RMS, 60 Hz minimum, contact-to-contact 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
Fault Current Test:	7 A for a minimum of 5 seconds
UL, cUL, CE, Austel:	Listed



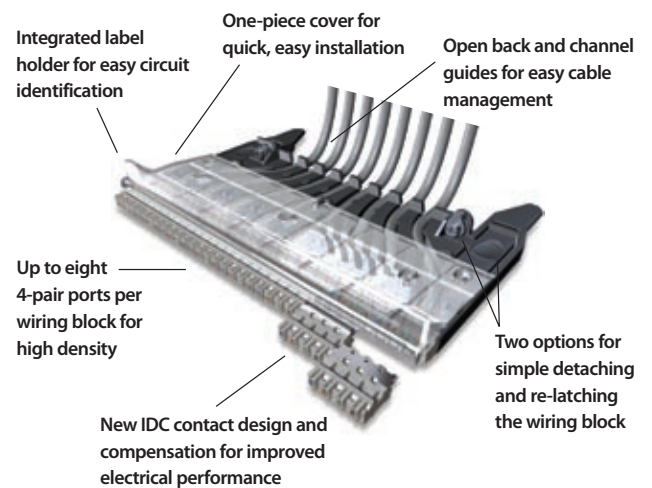
VisiPatch
360

VisiPatch® 360 System Overview

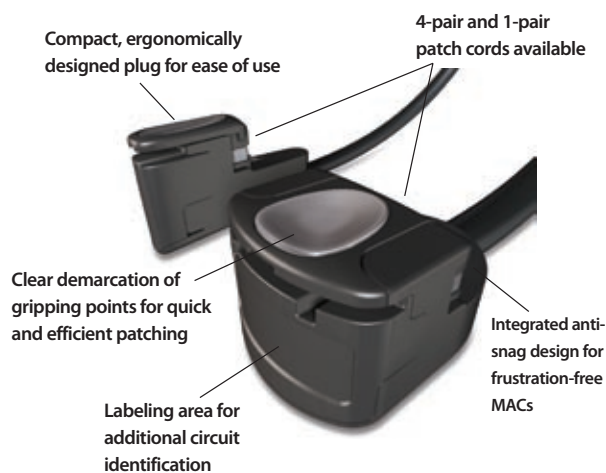
Back Panel



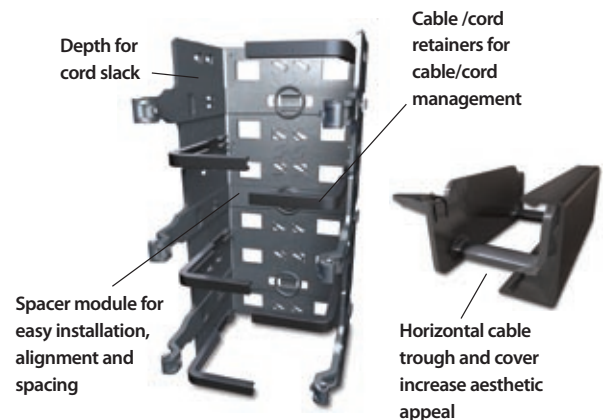
Wiring Block/Connecting Block



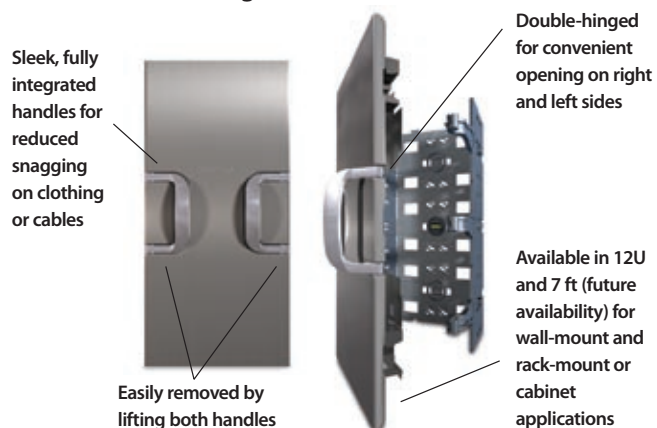
Patch Cord



Cable Management



Vertical Trough Cover



VisiPatch
360

Patch Panel Kits

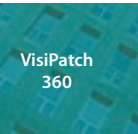
Product Number	Detailed Description	Contents	Qty	Material ID
VP360-4U-32P	VisiPatch 360 4U (32 ports) Kit			760049445
		VisiPatch 360 Back Panel 4U	1	
		Leveling Medallion	1	
		VisiPatch 360 Wiring Block	4	
		VisiPatch 360 Wiring Block Cover	4	
		VisiPatch 360 Connecting Block	32	
		VisiPatch Label Holder	4	
		White Label	12	
VP360-12U-96P	VisiPatch 360 12U (96 ports) Kit			760049452
		VisiPatch 360 Back Panel 12U	1	
		Leveling Medallion	1	
		VisiPatch 360 Wiring Block	12	
		VisiPatch 360 Wiring Block Cover	12	
		VisiPatch 360 Connecting Block	96	
		VisiPatch Label Holder	12	
		White Label	12	

Cable Manager Kits - Vertical

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-45U-10VTCM	VisiPatch 360 7 ft Rack Vertical Trough Cable Mgr Kit e/w Door, 10" wide			future availability
VP360-12U-10VTCM	VisiPatch 360 12U Vertical Trough Cable Mgr Kit e/w Door, 10" wide			760060285
		VisiPatch 360 12U VTCM Door, 10"	1	
		4U Spacer Module	3	
		4U Spacer Module Extender	3	
		Leveling Medallion	1	
		Macro Cable/Cord Retainer	3	

Cable Manager Kits - Horizontal

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-HCM-Kit-27	VisiPatch 360 Horizontal Cable Mgr Kit, 27" wide			760060301
		4U Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 27"	2	
VP360-HCM-Kit-37	VisiPatch 360 Horizontal Cable Mgr Kit, 37" wide			760060871
		4U Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 37"	2	
VP360-HCM-Kit-19	VisiPatch 360 Horizontal Cable Mgr Kit, 19" wide			760060343
		4U Back Panel Base	1	
		Horizontal CM Trough	2	
		Horizontal Trough Cover, 19"	2	
VP360-HCM-Kit-19Rack	VisiPatch 360 Horizontal Rack Mount Cable Mgr Kit, 19" wide			760068106
		Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 19"	2	
VP360-HCM-Kit-29	VisiPatch 360 Horizontal Cable Mgr Kit, 29" wide			760060863
		4U Back Panel Base	1	
		Horizontal CM Trough	2	
		Horizontal Trough Cover, 29"	2	
VP360-12U-Door-10	VisiPatch 360 12U Door, 10" wide			760060269



Accessories

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-CB-10	VisiPatch 360 Connecting Block, 10/pk			760060277
		VisiPatch 360 Connecting Block	10	
VP360-4U-BPK	VisiPatch 360 4U Back Panel Kit			760060251
		VisiPatch 360 Back Panel 4U	2	
		Leveling Medallion	2	
		Metal Clip	12	
VP360-RMBKT	VisiPatch 360 19" Rack Mount Bracket			760060327
		19" Rack Mounting Bracket	1	
VP360-CBF-SK	VisiPatch 360 Cable Bundle Fastener Kit, Small			760060335
		Micro Cable/Cord Retainer	4	
VP-Label	Label for VisiPatch Connector	5 (260 labels/sheet)		760072488
110YG3-2688L	Yellow Label		96	108528407
110WG3-2688L	White Label		96	108528415
110SG3-2688L	Slate Label		96	108528423
110RG3-2688L	Red Label		96	108528431
110PG3-2688L	Purple Label		96	108528449
110GG3-2688L	Green Label		96	108528456
110CG3-2688L	Orange Label		96	108528597
110BG3-2688L	Blue Label		96	108528464
110KG3-2688L	Brown Label		96	108528472

Tool Kits

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-788-HEAD	VisiPatch 360 4-pair Head for 788 Tool			760060350
		4-pair Block Punch Down Block	1	
VP360-914-BIT	VisiPatch 360 1-pair Tool Bit for D-914 Impact Tool			760060368
		1-pair Punch Down Bit	1	

VisiPatch® 360 Patch Cords



Patch Cords - GS5

Product Number	Detailed Description	CPC Code
VP360-VP 360-4PC-X10D	VisiPatch 360 X10D Patch Cord, B-wired	CPCFF32
VP360-VP 360-1PC	VisiPatch 360 1-pair Patch Cord, B-wired	CPCFF62
VP360-GS10E-4PC-X10D	VisiPatch 360 GS10E Hybrid Patch Cord, B-wired	CPCF732
VP360-GS10E-4PC-X10D	VisiPatch 360 GS10E Hybrid Patch Cord, A-wired	CPCF731
VP360-VP360-4PC-XL	VP360 to VP360 XL 4-Pair Patch Cord, B-Wired	CPCFF12
VP360-GS8E-4PC-XL	VP360 to GS8E XL Hybrid Patch Cord, B-Wired	CPCF312
VP360-VP360-Crossover-XL10D	VP360 to VP360 X10D Crossover Cord	CPCFF3D
VP360-VP360-Crossover-XL	VP360 to VP360 XL Crossover Patch Cord	CPCFF1D

VisiPatch® System

The VisiPatch System uses state-of-the-art IDC technology for optimum patch cord organization and management. The system provides superior GigaSPEED XL performance which is a clear advantage in data center applications. The unique “reverse direction” design provides a neat, cordless appearance that dramatically improves patch cord management and “avoids the clutter” that is inherent with other patch cord systems. The modular approach in the design maximizes the overall flexibility of the system. The system is lightweight, stackable and the components snap together for ease of installation.

Features and Benefits:

- Proven SYSTIMAX SCS performance
- Supports GigaSPEED XL channels
- 4-pair Patch Cord certified GigaSPEED XL component
- Fast, easy installation with low operating costs
- Innovative reverse patch cord design
- Neat, cordless appearance
 - Seven 4-pair cables per row
 - Up to 252 4-pair cables per vertical
- Unique plastic construction
- Snap-together components
- 28-port (112-pair) and 84-port (336-pair) stackable field terminated kits
- Superior patch cord routing and management
- Higher usable density

Back Panel The back panel is the backbone of the VisiPatch System. Using space-age plastic structural foam technology, this patented wall mounting hardware consists of two identical “L”-shaped halves that snap together to form a strong “U”-shaped panel. The lightweight panel can be easily mounted to support multiple mounting options. The back panel holds 4 or 12 wiring blocks to conform to any size installation.

Wiring Block The wiring block snaps into the back panel and accepts up to seven 4-pair cables (28 conductor pairs). It also accepts 25-pair count cables using 5-pair connecting blocks (25 conductor pairs). The wiring block entrance slot and grooves provide versatile cable management. This support feed system allows up to seven 4-pair cables for each wiring block.

Designation Strip/Cover Plate The cover plate snaps directly on to the wiring block and provides protection for the terminated cables. The two piece, clear plastic design provides easy access to the cables and enables visual verification of cable termination quality without moving any components. The pivoted plastic label holder also serves as a designation strip for circuit identification and facilitates the latching of the patch cord.

EIA Panel Assembly The VisiPatch 19 in EIA 1U Panel Mount solution is designed to support rack-mounted installations of the VisiPatch System. The 1U panel terminates up to 56 cable conductor pairs and provides flexibility to scale applications from small and up to large installations. Using the 1U panel in smaller applications such as in a telecommunications closet provides an economical solution for supporting a variety of circuit type applications such as IP, ISDN, Digital Voice, and Analog/Voice/Fax/Modem. Larger data center applications where more terminations are required provide a neat and flexible alternative to RJ-45 patch panels.

The VisiPatch 19 in EIA 1U panel and the 56-pair wiring block assembly kits can be ordered separately or as a complete kit. Each wiring block assembly snaps into the 1U panel mount similar to the back panel assembly for wall-mounted applications. Two 28 pair wiring blocks (56-pair circuit) install into the 1U Panel Mount. The wiring block cable entrance slot and grooves provide versatile cable management. This support feed system allows up to seven 4-pair cables (28 conductor pairs) for each wiring block. Each wiring block accepts seven 4-pair connecting blocks. Refer to instruction sheet for detailed assembly information.

Physical Specifications:

Height: 110UB1-112FT: 7.2 in (19.05 cm)
110UB1-336FT: 21.6 in (54.86 cm)

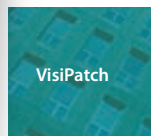
Width: 8.5 in (21.59 cm)

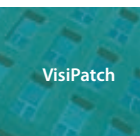
Depth: 7.5 in (19.05 cm)

Pairs per row: 28

Pairs per back panel: 110UB1-112FT: 112
110UB1-336FT: 336

Patch cords per row: 7 (4-pair cords)





Product Number	Detailed Description	Contents	Qty	Material ID
110UB1-112FT	VisiPatch System, 112-pair			108836792
		100PR Base, Back Panel Half	2	
		110UW-28, Wiring Block	4	
		110UC-28, Designation Covers	4	
		110C4W, Connecting Block	30	
		110UPHLDR, Label Holder	4	
		110WG3-2688L, White Label	12	
		Instruction Sheet	1	
110UB1-336FT	VisiPatch System, 336-pair			108561143
		300PR Base, Back Panel Half	2	
		110UW-28, Wiring Block	12	
		110UC-28, Designation Covers	12	
		110C4W, Connecting Block	84	
		110UPHLDR, Label Holder	12	
		110WG3-2688L, White Label	12	
		Instruction Sheet	1	
110U2R	Distribution Ring			108523937
110UTC	Trough Cover			108593203
110U19M	Rack Mount Bracket			108634429
110UHD-S8	Horizontal Duct			108637737
110UP-WB	Wall Mount Bracket			108688946
110UHS20	Installation Spacer			108637612
110UHPT-Universal Trough	Universal Horizontal Trough			108836834
Trough Kit	Trough, U Channel to mount below VisiPatch components on wall			700012990
110UGND	Ground Bar			108561135
110UHWSD	Spacer Duct			700032766
110YG3-2688L	Yellow Label *			108528407
110WG3-2688L	White Label *			108528415
110SG3-2688L	Slate Label *			108528423
110RG3-2688L	Red Label *			108528431
110PG3-2688L	Purple Label *			108528449
110GG3-2688L	Green Label *			108528456
110CG3-2688L	Orange Label *			108528597
110BG3-2688L	Blue Label *			108528464
110KG3-2688L	Brown Label *			108528472
Mounting Bar	Bar, Mounting 19 in Rack for 110 Application			760031948
110FDLH	Label Holder (1pk = 4 strips)			108738113
110C4W	Connecting Block			108538612
VP19PNLKT	VisiPatch 19 in EIA 1U Rack Mount Panel Kit			760047654
VP19RKMT	VisiPatch 19 in EIA 1U Rack Mount Panel			760046490
VP56PRWBLK	VisiPatch 56 Pair Wiring Block Kit			760047688
VPPNLKIT-336	Kit includes 4 VisiPatch 336 L-beam Back Panels			760054833
VPPNLKIT-112	Kit includes 4 VisiPatch 112 L-beam Back Panels			760054387
Trough Half Cover	VisiPatch Vertical Trough Half Cover			760054742
M110 Bit	Extended M110 Bit for D-914 Tool			760064568

VisiPatch® Patch Cords

The VisiPatch Patch Cords utilize a patented connector design that allows the cordage to be neatly routed back toward the VisiPatch panel rather than to project forward. The connector snaps on with an audible click and features an anti-snag device, which allows the cord to be easily removed from the panel. The 1-, 2-, and 4-pair patch cords provide complete flexibility for all circuit types to accommodate IP, ISDN, digital voice, analog/voice/fax/modem applications. The 2- and 4-pair cords support GigaSPEED XL performance for higher bandwidth data applications. The 1-pair cord supports voice, fax and modem applications. The 119 cords use the VisiPatch connector design terminated to a GigaSPEED connector.

The VisiPatch 1-pair Field Terminated Plug and Cordage Kits provide an alternative solution to pre-assembled fixed length patch cords for applications such as voice, fax, and modern systems and low speed data where performance is not the key driver. In these applications, there is a need for variable length patch cords, where customers are able to field terminate patch cords to suit the needs of their cross-connect layout. With the 1 Pr Field Terminated kit, customers can customize the length of the patch cord and help eliminate clutter and slack that can build up in the vertical cable management areas.

The 1-pair Field Terminated Plug Kit provides piece parts to assemble up to 10 patch cords. Each kit contains detailed instructions to properly assemble the patch cords. The cordage kit contains 100 ft of 1074 series one-pair cordage. The patch cord kit is easy to assemble and no special tools are required. Minimal experience is required for termination and the average time to assemble one patch cord takes approximately 30 seconds. Refer to instruction sheet included in kit for detailed information.

The 1-pair Patch Plugs are designed to terminate 1074 cordage. Termination of other cordage may not be reliable.

Patch cords are orderable using a 14-character feature configuration coding scheme which replaces the familiar 9-character Material ID. This allows maximum flexibility for ordering many different combinations of plug ends, cordage types, colors and lengths. Please use SYSTIMAX Copper Patch Cord Product Identifier in Reference Links for ordering information or contact your SYSTIMAX BusinessPartner.

Physical Specifications:

Contact Material: Phosphor Bronze

Contact Plating: Gold 2 to 5 micro-inch (0.051 to 0.128 microns)
Nickel 75 micro-inch (1.91 microns)

Insertion Life: 200 minimum

Plug Material: Polycarbonate Blend UL-rated 94 V-O

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

TIA/EIA: Category 6

UL and cUL: CM (cordage)

Product Number	Detailed Description	CPC Code
110VPB-GS3-A	VisiPatch to VisiPatch GS3 4-Pair A Wired Cord	CPC5511
110VP2	VisiPatch to VisiPatch 1-Pair Cord	CPC5562
110VP4	VisiPatch to VisiPatch 2-Pair Cord	CPC5552
110VP8-GS3-B	VisiPatch to VisiPatch 4-Pair B Wired Cord	CPC5512
119VP8-GS3-B	VisiPatch to RJ45 4-Pair B Wired Cord	CPC5312
110P4UPGS	VisiPatch to DBPS (RJ45) 2-Pair B Wired Cord	CPC5652
119P4VPISON	VisiPatch to DBPS (RJ45) 2-Pair Cord	CPC5658
VP1PRFTRM	VisiPatch 1-Pair Field Term Cord Plug Kit	760047662
VP1PRCORD 100 ft	VisiPatch 1-Pair cordage 100 ft	760047993
VP1PRCORD-3ft-bulk pack	Bulk Pack 3 ft 1-Pair VisiPatch Cords	760060129
VP1PRCORD-5ft-bulk pack	BulkPack 5 ft 1-Pair VisiPatch Cords	760060194
VP1PRCORD-7ft-bulk pack	BulkPack 7 ft 1-Pair VisiPatch Cords	760060202
VP1PRCORD-10ft-bulk pack	BulkPack 10 ft 1-Pair VisiPatch Cords	760060210
VP1PRCORD-14ft-bulk pack	BulkPack 14 ft 1-Pair VisiPatch Cords	760060228

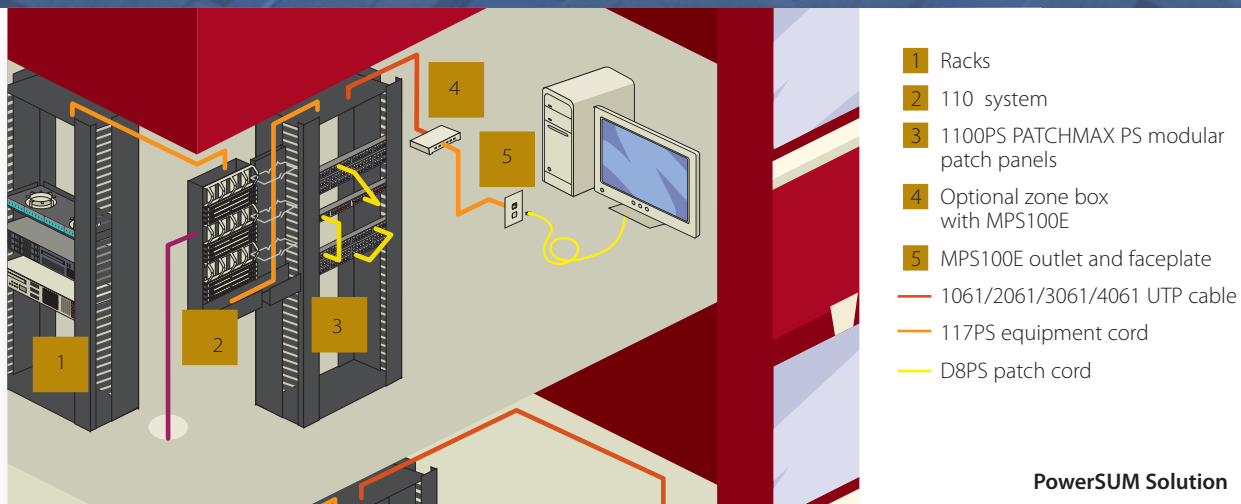


VisiPatch

Product Number	Detailed Description	CPC Code
VP1PCORD-25ft-bulk pack	BulkPack 25 ft 1-Pair VisiPatch Cords	760060236
VP4PCORD-3ft-bulk pack	Bulk Pack 3 ft 4-Pair VisiPatch Cords	760060137
VP4PCORD-5ft-bulk pack	BulkPack 5 ft 4-Pair VisiPatch Cords	760060145
VP4PCORD-7ft-bulk pack	BulkPack 7 ft 1-Pair VisiPatch Cords	760060152
VP4PCORD-10ft-bulk pack	BulkPack 10 ft 4-Pair VisiPatch Cords	760060160
VP4PCORD-14ft-bulk pack	BulkPack 14 ft 4-Pair VisiPatch Cords	760060178
VP4PCORD-25ft-bulk pack	BulkPack 25 ft 4-Pair VisiPatch Cords	760060186

VisiPatch

PowerSUM Solution Exceeding Category 5/5e



Features and Benefits:

- Performance Extended to 155.5 MHz for Channels
- Performance certified to exceed the Category 5e specifications for enhanced channels
- Supports IEEE 802.3 1000BASE-T plus other legacy LANs and applications

PowerSUM channel performance specifications exceed not only the TIA 568B.2 and ISO 11801 Edition 2 for Category 5e/Class D cabling systems but are also capable of providing stable and continual performance up to and beyond 100 MHz.

SYSTIMAX SCS channels that are comprised exclusively of PowerSUM passive products end-to-end are capable of delivering 1.0 Gbps to the workstation in accordance with application standards and are eligible for the SYSTIMAX SCS 20-Year Extended Product Warranty and Applications Assurance.

PowerSUM products include:

- 4-pair 1061, 2061, 3061 UTP Cables
- 110 VisiPatch System and 110 Connector System
- PATCHMAX and 1100 PowerSum Category 5e Modular Patch Panels
- MPS100E Information Outlets
- D8PS Patch and Workstation Cords
- 110, 117, 119 Patch Cords

PowerSUM

PowerSUM Specifications

SYSTIMAX PowerSUM Category 5e Guaranteed Channel Performance

Guaranteed Performance Specifications for PowerSUM Solution

Electrical Parameter (1 – 155.5 MHz)	Guaranteed Channel Margins to Category 5E/Class D TIA 568B.2 and ISO 11801 Edition 2.0
Insertion Loss	5.0 %
NEXT	3.0 dB
PSNEXT	5.5 dB
ELFEXT	4.5 dB
PSELFEXT	5.5 dB
Return Loss	1.0 dB

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Phase Delay (ns)	Delay Skew (ns)
1.0	2.1	66.3	64.2	66.1	64.0	61.8	59.8	18.0	580	30
4.0	4.2	56.6	52.4	56.2	52.0	49.8	47.8	18.0	562	30
8.0	6.0	51.6	45.6	51.2	45.2	43.8	41.8	18.0	557	30
10.0	6.7	50.0	43.3	49.6	42.9	41.8	39.8	18.0	555	30
16.0	8.6	46.6	38.0	46.2	37.6	37.8	35.8	18.0	553	30
20.0	9.6	45.0	35.4	44.6	35.0	35.8	33.8	18.0	552	30
25.0	10.4	43.4	32.5	42.9	32.5	33.9	31.9	17.0	551	30
31.3	12.2	41.7	29.5	41.2	29.0	31.9	29.9	16.0	550	30
62.5	17.6	36.6	19.0	36.1	18.5	25.9	23.9	13.1	549	30
100.0	22.8	33.1	10.3	32.6	9.8	21.9	19.9	11.0	548	30
125.0	25.8	31.5	5.7	30.9	5.1	19.9	17.9	10.1	547	30
155.5	29.1	29.8	0.7	29.2	0.1	18.0	16.0	9.1	547	30

PowerSUM

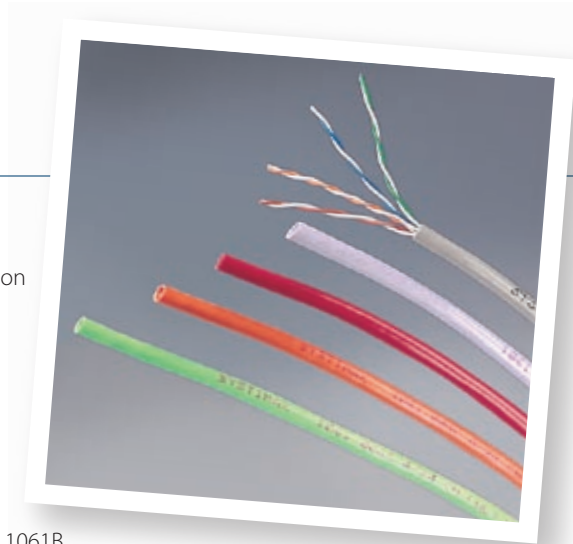
Category 5e, PowerSUM Cable

Non Plenum 1061

The 1061 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173, and TIA/EIA 568B.1. Further, these cables are UL verified as Category 5e.

The 4-pair 1061C cable is composed of 24 AWG solid copper conductors, insulated with high-density polyolefin. The insulated conductors are twisted into pairs and jacketed with our specially formulated material. 1061C cable is CM rated.

The 4-pair 1061B cable is CMR rated and also UL approved. The 4-pair 1061B cable is composed of 24 AWG solid copper conductors with high-density polyolefin insulation and jacketed with low-smoke polyvinyl chloride (PVC).



Physical Specifications:

Weight: 20.8 lbs/1,000 ft (9.43 kg/304.8 m)
Nominal Jacket Thickness: 0.021 in (0.53 mm)
Nominal Outside Diameter: 0.021 in (0.53 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @10 MHz): 70%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.1 and ANSI/TIA/EIA 568B.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN50173: 2002 (Edition 2) Category 5e
UL and cUL: CMR (for 1061B)
CM (for 1061C)

UL CMR Rated

Product Number	Pair Count	Color	Length	Package	Material ID
1061 004BBL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	107323636
1061 004BBL 4/24 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	107251696
1061 004BOR 4/24 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	108173840
1061 004BRD 4/24 W1000	4	Red	1,000 ft (305 m)	We Tote Box	700022643
1061 004BSL 4/24 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	107091936
1061 004BWH 4/24 W1000	4	White	1,000 ft (305 m)	We Tote Box	107819575

UL CM Rated

Product Number	Pair Count	Color	Length	Package	Material ID
1061 004CBK 4/24 W1000	4	Black	1,000 ft (305 m)	We Tote Box	107509051
1061 004CBL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	760004705
1061 004CBL 4/24 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760004671
1061 004CGN 4/24 R1000	4	Spring Green	1,000 ft (305 m)	Reel	107244048
1061 004CGN 4/24 W1000	4	Spring Green	1,000 ft (305 m)	We Tote Box	107244030
1061 004CIV 4/24 R1000	4	Ivory	1,000 ft (305 m)	Reel	107076192
1061 004CIV 4/24 W1000	4	Ivory	1,000 ft (305 m)	We Tote Box	106871817
1061 004CLB 4/24 R1000	4	Light Blue	1,000 ft (305 m)	Reel	107057853
1061 004CLB 4/24 W1000	4	Light Blue	1,000 ft (305 m)	We Tote Box	106871809
1061 004CLL 4/24 W1000	4	Lilac	1,000 ft (305 m)	We Tote Box	107244022
1061 004COR 4/24 R1000	4	Orange	1,000 ft (305 m)	Reel	107193435
1061 004COR 4/24 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	700156177
1061 004CRD 4/24 R1000	4	Red	1,000 ft (305 m)	Reel	107244055
1061 004CRD 4/24 W1000	4	Red	1,000 ft (305 m)	We Tote Box	106926363

PowerSUM

Product Number	Pair Count	Color	Length	Package	Material ID
1061 004CSL 4/24 R1000	4	Slate	1,000 ft (305 m)	Reel	106836943
1061 004CSL 4/24 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	106836950
1061 004CWH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107849283
1061 004CWH 4/24 W1000	4	White	1,000 ft (305 m)	We Tote Box	107147787
1061 004CYL 4/24 R1000	4	Yellow	1,000 ft (305 m)	Reel	106999071
1061 004CYL 4/24 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	107001687

Plenum 2061

The 2061 Plenum 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. Further, these cables are UL verified as Category 5e and meet the UL-444 (CMP) requirements. The 2061 cable is composed of 24 AWG solid copper conductors insulated with fluorinated ethylene propylene (FEP) and polyethylene (PE) and jacketed with low-smoke polyvinyl chloride (PVC).

Physical Specifications:

Weight: 20.0 lbs/1,000 ft (29.8 kg/km)

Nominal Jacket Thickness: 0.019 in (0.48 mm)

Nominal Outside Diameter: 0.180 in (4.57 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 73%

Maximum DC Resistance: 9.38 Ohms/100 m

Maximum DC Resistance Unbalance: 3%

Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m

Standards: ANSI/TIA/EIA 568B.1 and ANSI/TIA/EIA 568B.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D

CENELEC EN 50173: 2002 (Edition 2) Category 5e

UL and cUL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2061 004FBK 4/23 W1000	4	Black	1,000 ft (305 m)	We Tote Box	760051615
2061 004FBL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760049585
2061 004FBL 4/23 R3000	4	Blue	3,000 ft (915 m)	Reel	760049643
2061 004FBL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760041913
2061 004FGN 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	760049635
2061 004FGN 4/23 R3000	4	Spring Green	3,000 ft (915 m)	Reel	760049692
2061 004FGN 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We Tote Box	760049700
2061 004FLL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We Tote Box	760051631
2061 004FOR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760049627
2061 004FOR 4/23 R3000	4	Orange	3,000 ft (915 m)	Reel	760049684
2061 004FOR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	760041954
2061 004FPK 4/23 W1000	4	Pink	1,000 ft (305 m)	We Tote Box	760066068
2061 004FPR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760058735
2061 004FRD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760051623
2061 004FSL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760049601
2061 004FSL 4/23 R3000	4	Slate	3,000 ft (915 m)	Reel	760049668
2061 004FSL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760041939
2061 004FWH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760049593
2061 004FWH 4/23 R3000	4	White	3,000 ft (915 m)	Reel	760049650
2061 004FWH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760041921
2061 004FYL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760049619
2061 004FYL 4/23 R3000	4	Yellow	3,000 ft (915 m)	Reel	760049676
2061 004FYL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760041947
2061 004FPR R3000	4	Purple	3,000 ft (915m)	Reel	760073114

PowerSUM

Low Smoke Zero Halogen (LSZH) 3061

The 3061A LSZH 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. Further, these cables are UL verified as Category 5e. The 3061A LSZH cable is composed of 0.511 mm (24 AWG) bare solid copper conductors insulated with high density polyolefin. The insulated conductors are tightly twisted into pairs and jacketed with the low smoke non-halogen compound.

Physical Specifications:

Weight: 20.0 lbs/1,000 ft (29.8 kg/km)
Nominal Jacket Thickness: 0.021 in (0.53 mm)
Nominal Outside Diameter: 0.195 in (4.95 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 70%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.1 and ANSI/TIA/EIA 568B.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN50173: 2002 (Edition 2) Category 5e
IEC 754 part 2, Non-halogen based on pH and conductivity measurements
IEC 1034 part 2, Smoke emission
IEC 332 part 3, Flammability and flame retardant
NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3061 004AWH 4/24 CUSTL	4	White	Variable	Reel	107573560
3061 004AWH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107573537

Limited Combustible 4061

The 4061 cable is UL verified. The 4061 limited combustible cable meets the TIA/EIA Category 5e and UL-444 (CMP) standards. Jacketed and insulated with an FEP fluoropolymer resin, the cable also meets the UL requirement FHC 25/50 (limited combustible cable). Superior fire safety makes 4061 an ideal candidate for applications requiring high margin of fire safety. The limited combustible cables are also resistant to performance changes due to aging or environmental conditions, totally recyclable, chemical resistant and heavy metal free.

Physical Specifications:

Weight: 20.2 lbs/1,000 ft (30.1 kg/km)
Nominal Jacket Thickness: 0.009 in (0.23 mm)
Nominal Outside Diameter: 0.180 in (4.57 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 71%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA/EIA 568B.1 and ANSI/TIA/EIA 568B.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN50173: 2002 (Edition 2) Category 5e
UL and cUL: CMP, FHC 25/50

Product Number	Pair Count	Color	Length	Package	Material ID
4061 004ATL 4/24 R1000	4	Translucent	1,000 ft (305 m)	Reel	108671272

PowerSUM

1100 Category 5e PowerSUM Modular Patch Panel

The 1100PSCAT5E Modular Jack Panel is a 19-inch rack mountable RJ45 jack panel available in straight or angled designs. The 1100PSCAT5E accommodates repeated line moves, additions and rearrangements. The IDC connection on the rear of the panel houses the printed wiring board that provides continuous connection to the 8-pin modular jacks on the front. The result is a hard-working panel that allows an IDC gas-tight termination of equipment on 110 connectors. The panel is available with 24 or 48 RJ45 ports. The 1100PSCAT5E Panel kit includes new icon labels with plastic holders that you can mount on the front of the panel for easy port identification.

The minimum insertion life is 750 cycles, which allows for hundreds of moves and additions. Label strips for both the front and back of the panel allow for easy identification of circuits.

Features and Benefits

- Supports IEEE 802.3 1000BASE-T plus other legacy LANs and applications
- PowerSUM channel performance specifications exceed not only the TIA 568B.2 and ISO 11801 Edition 2 for Category 5e/Class D cabling systems, but are also capable of providing stable and continual performance up to and beyond 100 MHz
- Available in 24 and 48 port versions
- Capable of handling T568A or T568B wiring
- Vertical and Horizontal cable organizers improve patch cord management (order separately, 1100C and 1100D)
- 110 Connections in rear allow for easy and quick installation of 22 to 24 gauge
- Cables routed and tied directly to the panel eliminating the rear cable management bar
- Supports 1Gb network line speeds
- Cat 5 and Cat 3 backward compatible
- PowerSUM 20 year warranty

Physical Specifications:

Height: 24-Port: 1.75 in (4.38 cm)
48-Port: 3.50 in (8.83 cm)

Width: 19.0 in (48.3 cm)

Depth: 1.60 in (4.96 cm)

Wire Termination Type:

Insulation displacement (ID), gas tight

Wire Size:

Conductor Type: Solid or stranded (7 strands)

Size: 26/24/22 AWG (0.40/0.51/0.64 mm)

Insulation Type: All plastic insulates, including: PVC, irradiated PVC, Nylon, Polyethylene, Polypropylene, PTFE, Polyurethane, Teflon®

Mechanical Data:

Plug Insertion Life: 750 minimum

Wire Insertion Force: 24 AWG=13-28 lbs (58-125 N)

Wire Retention: 24 AWG—typical pull out force

X-axis=10.6 lbs (47.3 N)

Y-axis=10.6 lbs (47.3 N)

Z-axis=2.4 lbs (10.7 N)

Environmental Conditions:

Temperature Range:

Storage: -40°F to 158°F (-40°C to 70°C)

Operational: 14°F to 140°F (-10°C to 60°C)

Relative Humidity: (operational) maximum, non-condensing 93%

Materials:

Plastic Components: Polycarbonate, self-extinguishing

Flammability Rating: UL-rated 94 V-O

Oxygen Index: 28.5% minimum

Contact Material: Phosphor Bronze

Description:

Insertion Life: 750 cycles

Plug/Jack Contact Force: 100g min. (3.5 oz.)

Plug Retention Force: 133 N min.

Operating Temperature Range: -10°C to 60°C degrees

Storage Temperature Range: -40°C to 70°C degrees

Humidity: 5 to 95% (noncondensing)

Height: 24-Ports: 4.38 cm (1U)

48-Ports: 8.83 cm (2U)

Width: 48.26 cm (19 inch)

Electrical Specifications:

Insulation Resistance: 500 megaohms minimum

Current Rating: 1.5 A at 68°F (20°C)

EIA/TIA Category: 5e

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL Listed

Product Number	Wiring	Number of Ports	Material ID
1100PSCAT5E-24	T568A, T568B	24	108208919
1100PSCAT5E-48	T568A, T568B	48	108208935
1100PSCAT5E-24-Angled	T568A, T568B	24	760056580
1100PSCAT5E-48-Angled	T568A, T568B	48	760056598
1100PS ICON Label - White *			760001412
1100PS ICON Label - Blue *			760001420

PATCHMAX® PowerSUM Distribution Hardware

PATCHMAX Distribution Hardware is a copper and fiber modular connecting hardware system. PATCHMAX components can be purchased individually or as a complete kit. It is designed to be mounted on EIA 310 Standard 19 inch (48.3 cm) rack/frame or 1100C type wall mount brackets.

The Category 5e copper kit PM2150 PowerSUM includes a 24-(48) port panel, 4 (8) DM21xx modules, a cable fastener kit, 1 (2) front retainers, 5 (10) rear retainers, 16 white/blue labels, straps, tape and installation instructions for the 24- and 48- port kits, respectively.

The P2040 and P2080 are individual, empty panels that hold 4 and 8 snap-in distribution modules, respectively. The P2040 or P2080 panels allow fiber and copper to be terminated in the same panel. A slack storage tray in the rear of the module maintains the correct buffered fiber bend radius.

Physical Specifications:

Height: 24-Port: 3.53 in (8.9 cm)

48-Port: 7.06 in (17.8 cm)

Width: 24-Port: 19 in (48.3 cm)

48-Port: 19 in (48.3 cm)

Depth: 24-Port: 8.13 in (20.5 cm)

48-Port: 8.13 in (20.5 cm)

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, 100 micro-inch

(2.54 microns) bright solder over 100 micro-inch (2.54 microns) nickel underplate. Insulation displacement connectors accept solid or stranded wire

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in

(0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in

(0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Insulation Types: All plastic insulates, including: PVC, irradiated PVC, Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon, and FEP

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug



Electrical Specifications:

Insulation Resistance: 500 megaohms minimum

Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 5e

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface.

UL and cUL Listed

PowerSUM

PATCHMAX PowerSUM Panels

Product Number	Detailed Description	Material ID
PM2150PSE-24	PowerSUM Patch Panel, 24-Port	108320029
PM2150PSE-48	PowerSUM Patch Panel, 48-Port	108320045
P2040	Panel for 4 Distribution Modules	107428591
P2080	Panel for 8 Distribution Modules	107428609

Note: For M-Series Modular Patching, refer to the M2000 Modular Patch Panel, page 21.

PATCHMAX PowerSUM Modules

Product Number	Detailed Description	Material ID
DM2150PSE	PowerSUM Distribution Module, 6-Port	108320011
DM2302 SC/SC	OptiSPEED Multimode SC Module, 6 Connection	108116484
DM2302 SC/ST	OptiSPEED Multimode SC Front Module, 6 Connection	108116500
DM2302 ST/ST	OptiSPEED Multimode ST Module, 6 Connection	108116526
DM2302 ST/SC	OptiSPEED Multimode ST Front Module, 6 Connection	108116542
DM2302 LC/LC	OptiSPEED Multimode LC Module, 12 Connection	108267634
DM2303 SC/SC	TeraSPEED Singlemode SC Module, 6 Connection	108116492
DM2303 SC/ST	TeraSPEED Singlemode SC Front Module, 6 Connection	108116518
DM2303 ST/ST	TeraSPEED Singlemode ST Module, 6 Connection	108116534
DM2303 ST/SC	TeraSPEED Singlemode ST Front Module, 6 Connection	108116559
DM2303 LC/LC	TeraSPEED Singlemode LC Module, 12 Connection	108267642
DM2304 LC/LC	LazrSPEED Multimode LC Module, 12 Connection	108662131

PATCHMAX PowerSUM Accessories

Product Number	Detailed Description	Material ID
L2300-BL	Icons (4 strips, 6 icons per strip), blue	107536773
L2300-YL	Icons (4 strips, 6 icons per strip), yellow	107536799
L2300-RD	Icons (4 strips, 6 icons per strip), red	107536815
L2300-PL	Icons (4 strips, 6 icons per strip), purple	107536849
R2100	Front Cord Retainer (Kit of 5)	108036690
R2200	Rear Cable Retainer	107638934
R2300	Velcro Fastener Kit	107670952
BP2100	Blank Plate	108028457

PowerSUM

MPS100E Modular PowerSUM Information Outlets

The MPS100E Modular Information Outlets are 8-position/8-conductor high-density modular information jacks designed for high speed networking applications using data transmission rates.



Features and Benefits:

- Snaps into any M-Series modular faceplate, frame or surface-mount box
- Can be mounted either at 90 degrees (straight) or 45 degrees (angled)
Angled feature eliminates the need for special faceplates
- Multicolored identification labels assure fast, accurate installation
- Low-profile wire cap protects against contamination and secures connections
- Pair splitters and wider channel for enhanced conductor placement and termination
- The MPS100E outlet uses either the T568A or T568B wiring
- The MPS100E outlet is Category 5e compliant

Physical Specifications:

Dimensions: HxWxD: 0.8 in x 0.8 in x 1.2 in (2.0 cm x 2.0 cm x 3.1 cm)
Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, 100 micro-inch (2.54 microns) bright solder over 100 micro-inch (2.54 microns) nickel underplate. Insulation displacement connectors accept solid or stranded wire

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Insulation Type: All plastics insulates, including:

Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon and FEP

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 megaohms minimum

Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 5e

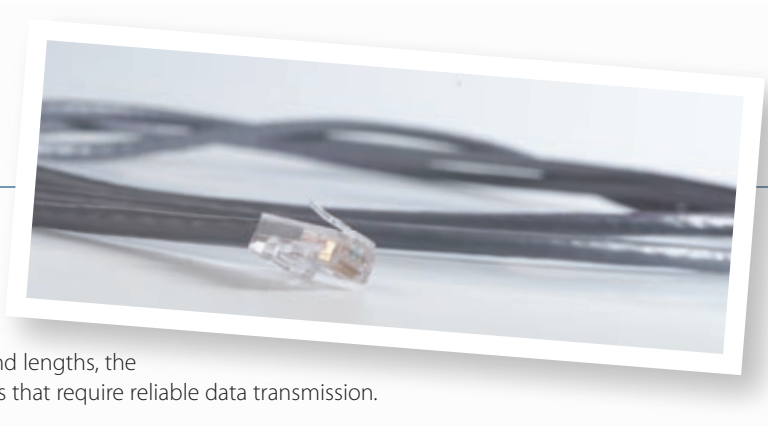
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL Listed

Product Number	Wiring	Color	Qty/Pkg	Material ID
MPS100E-003	T568A, T568B	Black	1	108232695
MPS100E-112	T568A, T568B	Orange	1	108232703
MPS100E-123	T568A, T568B	Yellow	1	108232711
MPS100E-226	T568A, T568B	Green	1	108232729
MPS100E-246	T568A, T568B	Electrical Ivory	1	108232737
MPS100E-262	T568A, T568B	Electrical White	1	108232745
MPS100E-270	T568A, T568B	Electrical Gray	1	108232752
MPS100E-317	T568A, T568B	Red	1	108232760
MPS100E-318	T568A, T568B	Blue	1	108232778
MPS100E-361	T568A, T568B	Violet	1	108337726
MPS100E-215	T568B	Misty Cream	1	108480484
Cap PowerSUM Strain Relief	N/A	Transparent	100	760061333
Cap PowerSUM Strain Relief	N/A	Transparent	1000	760061341

PowerSUM

D8PS PowerSUM Modular Patch Cord



The D8PS Modular Patch Cord meets or exceeds Attenuation and NEXT Category 5 and Category 5e specifications for patch cords as specified in ISO/IEC 11801, CENELEC EN50173 and TIA/EIA 568B. Available in a variety of colors and lengths, the D8PS cords are ideal for high activity environments that require reliable data transmission.

Patch cords are orderable using a 14-character feature configuration coding scheme which replaces the familiar 9-character Material ID. This allows maximum flexibility for ordering many different combinations of plug ends, cordage types, colors and lengths. Please use SYSTIMAX Copper Patch Cord Product Identifier (in Copper Reference Section) for ordering information or contact your SYSTIMAX BusinessPartner.

Physical Specifications:

Contact Material: Phosphor bronze

Contact Plating: Gold 50 micro-inch (1.27 microns)
Nickel 100 micro-inch (2.54 microns)

Insertion Life: 750 minimum

Plug Material: Polycarbonate UL-rated 94 V-O

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

TIA/EIA Category: 5e

UL and cUL: CM (cordage)

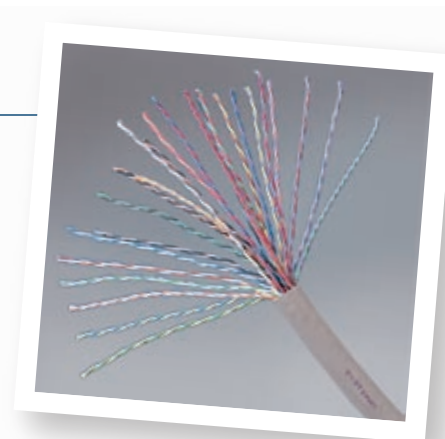
Product Number	Detailed Description	CPC Code
D8PS	PowerSUM Double Ended Cord	CPC6642
D8PS-SE	PowerSUM Single Ended 117 Cord	CPC6442
D8PS-A Wired	PowerSUM T568A Wired Cord	CPC6641
D8PS-Crossover	PowerSUM Crossover Cord	CPC6643

PowerSUM

25-Pair Category 5 UTP, 61 Series Cable

Non Plenum 1061

The 25-pair 1061 cable is composed of 24 AWG bare solid copper conductors insulated with high density polyolefin. The insulated conductors are tightly twisted into pairs, stranded into mini-units and jacketed with a SYSTIMAX SCS specially formulated PVC jacket. User-friendly standard 25-pair PIC color coding minimizes confusion when terminating on SYSTIMAX SCS distribution hardware and Category 5, 25-pair, telco-type, 525 connectors.



Physical Specifications:

Weight: 113 lbs/1,000 ft (51.26 kg/304.8 m)
Nominal Jacket Thickness: 0.027 in (0.69 mm)
Nominal Outside Diameter: 0.52 in (13.2 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Outside Diameter: 0.520 in (13.2 mm)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 70%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 14 nF/100 m
Standards: TIA/EIA 568A Category 5
UL and cUL: CMR

Product Number	Pair Count	Color	Length	Package	Material ID
1061 025CSL 25/24 R1000	25	Slate	1,000 ft (305 m)	Reel	107287484
1061 025CSL 25/24 R4000	25	Slate	4,000 ft (1219 m)	Reel	107479313
1060 025ASL 25/24 R1000	25	Slate	1,000 ft (305 m)	Reel	108339110

Plenum 2061

The 25-pair 2061A cable is UL verified Category 5 and UL listed type CMP for use in air return handling spaces. The cable has a user-friendly standard 25-pair PIC color coding scheme, which minimizes confusion when terminating on SYSTIMAX SCS distribution hardware and the Category 5, 25-pair telco-type 525 Connector. The cable conductors are insulated with Fluorinated-Ethylene-Propylene (FEP), twisted into pairs, stranded into mini-units and jacketed with Plenum rated material.

Physical Specifications:

Weight: 104 lbs/1,000 ft (47.2 kg/304.8 m)
Nominal Jacket Thickness: 0.012 in (0.31 mm)
Nominal Outside Diameter: 0.46 in (11.7 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 75%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 4.6 nF/100 m
Standards: TIA/EIA 568A Category 5
UL and cUL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2061 025ABL 25/24 R1000	25	Blue	1,000 ft (305 m)	Reel	107871477
2061 025AWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	107369845
2061 025AWH 25/24 R4000	25	White	4,000 ft (1219 m)	Reel	107995011

PowerSUM

Low Smoke Zero Halogen 3061

The 25-pair 3061A Low Smoke Zero Halogen (LSZH) cable is composed of 0.511 mm (24 AWG) bare solid copper conductors insulated with high density polyolefin. The 3061A cable has a user-friendly standard 25-pair PIC color coding scheme, which minimizes confusion when terminating on SYSTIMAX SCS distribution hardware and the Category 5, 25-pair telco type 525 connector.

Physical Specifications:

Weight: 115 lbs/1,000 ft (171 kg/km)

Nominal Jacket Thickness: 0.030 in (0.76 mm)

Nominal Outside Diameter: 0.500 in (12.70 mm)

Maximum Pulling Tension: 25 lbs (11.34 kg)

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 75%

Maximum DC Resistance: 9.38 Ohms/100 m

Maximum DC Resistance Unbalance: 5%

Maximum Mutual Capacitance at 1 kHz: 4.6 nF/100 m

Standards: TIA/EIA 568A Category 5

IEC 754 part 2, Non-halogen based on pH and conductivity measurements

IEC 1034 part 2, Smoke emission

IEC 332 part 3, Flammability and flame retardant

NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3061 025AWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	107754350
3061 025AWH 25/24 R4000	25	White	4,000 ft (1219 m)	Reel	107754368

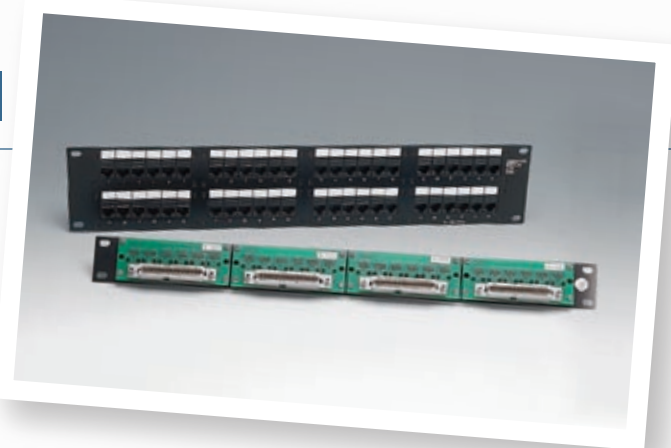
PowerSUM

2500 and 2512 Modular Patch Panel

The 2500 Category 5, PowerSUM Modular Patch Panel provides 8-pin modular patch on the front of the panel and female, 50-pin connections (patch) on the back.

The 2512 Category 5, PowerSUM Modular Patch Panel provides two pairs to each 8-pin modular patch. Pair one is terminated on pins 1 and 2, and pair two is terminated on pins 3 and 6. Therefore, one 50-pin connector serves 12 jacks.

The 2512CAT5PS is wired to the IEEE 802.3, Ethernet 100BASE-TX and 100BASE-T2 standard.



Physical Specifications:

Height: 24-Port: 1.75 in (4.38 cm)

48-Port: 3.50 in (8.83 cm)

Width: 19.0 in (48.26 cm)

Depth: 1.60 in (4.06 cm)

Wire Termination Type: Insulation displacement (ID), gas tight

Wire Size:

Conductor Type: Solid or stranded (7 strands)

Size: 26/24/22 AWG (0.40/0.51/0.64 mm)

Insulation Type: All plastic insulates, including: PVC, irradiated PVC, Nylon, Polyethylene, Polypropylene, PTFE, Polyurethane, Teflon®

Mechanical Data:

Plug Insertion Life: 750 minimum

Wire Insertion Force: 24 AWG=13-28 lbs (58-125 N)

Wire Retention: 24 AWG=typical pull out force

X-axis=10.6 lbs (47.3 N)

Y-axis=10.6 lbs (47.3 N)

Z-axis=2.4 lbs (10.7 N)

Environmental Conditions:

Temperature Range:

Storage: -40°F to 158°F (-40°C to 70°C)

Operational: 14°F to 140°F (-10°C to 60°C)

Relative Humidity: (operational) maximum, non-condensing 93%

Materials:

Plastic components: Polycarbonate, self-extinguishing

Flammability Rating: UL-rated 94 V-O

Oxygen Index: 28.5% minimum

Contact Material: Phosphor Bronze

Electrical Specifications:

Insulation Resistance: 500 megaohms minimum

Current Rating: 1.5 A at 68°F (20°C)

TIA/EIA Category: 5

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

UL and cUL Listed

PowerSUM

Product Number	Wiring	Number of Ports	Material ID
2500CAT5PS2-24B	T568B	24	108236142
2500CAT5PS2-48B	T568B	48	108236159
2500CAT5PS2-24A	T568A	24	108236126
2500CAT5PS2-48A	T568A	48	108236134
2512CAT5PS2-48	100BASE-TX, 100BASE-T	48	108236167

25-Pair Category 5, Connectors and Cable Assemblies

The 525 Connectors are used to terminate 25-pair cables. The available configurations are: 90 degree, in-line, angled and jack.

- The 525 cables consist of Category 5, 25-pair cable, connectorized with either one or two 525 connectors. These plug ended cables are available in single-ended (SE) and double-ended (DE) configurations.
- The 525 connector is compatible with industry standard 25-pair connectors while also providing keyed Category 5 connections with equipment using this feature. In addition, their unique design using crosstalk reduction techniques providing a 6 dB margin assures Category 5 performance throughout systems that use multiple connectors.
- The 525 assemblies with an angled (110 degree) end were specifically designed for connection to electronics equipment requiring a 50-pin telco type connector. The 50-pin assembly is downward compatible and can be used to support 10BASET electronics or 100BASET or 155 Mbps ATM applications. The right and left versions of the angle-mount connectorized cable assembly allow for flexibility in routing the cords as they exit the equipment.
- The in-line (180 degree) end of the 50-pin cable assembly was specifically designed for connection to our 100BASET (50-pin Category 5) modular patch panel.
- The raw end of the cable assembly is designed for termination directly onto the back of a modular patch panel.
- For cable assemblies, refer to the SYSTIMAX online catalog or your local SYSTIMAX representative.



Physical Specifications:

Contact Plating: Gold 30 micro-inch (0.76 microns)
Nickel 50 micro-inch (1.27 microns)

Contact Force: 100 grams minimum

Insertion Life: 200 minimum

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

TIA/EIA Category: 5

Maximum DC Resistance: 0.30 Ohms/100 m

Product Number	Type	Qty/Pkg	Material ID
525-PA-003	90 Degree Plug	100	107487514
525-JA-003	90 Degree Jack	100	107487498
525-AP-003	Angled Plug	100	108036732
525-CP-003	In-line Plug	100	107958233
525-PWB-003	90 Degree Plug	1	108329426
525-PA-003	90 Degree Plug	1	107487506
525-JA-003	90 Degree Jack	1	107487480
525-AP-003	Angled Plug	1	108361916
525-CP-003	In-line Plug	1	108361908

Ruggedized Connectivity Solution for Harsh Environments

The SYSTIMAX Ruggedized Connectivity Solution is designed to support applications such as military telecommunications equipment, utility instrumentation panels, pharmaceutical laboratories and equipment, industrial ethernet sensors and factory floor automation. The SYSTIMAX ruggedized product family includes a ruggedized connector housing for Category 5e and Category 6, the respective configurable patch cords, protective caps and faceplates.

The SYSTIMAX ruggedized connectors meet IP65 and IP67 environmental testing for use in industrial applications, where potential exposure to liquid and dust is expected. The connector consists of a jack assembly and a plug assembly that form an IP65 and IP67 rated seal. The jack assembly accepts a standard SYSTIMAX M-Series PowerSUM or GigaSPEED XL outlet and mounts in a corrosion resistant faceplate that can be mounted to a standard single or double wall outlet box. The plug assembly is pre-assembled to a SYSTIMAX GS8E patch cord. The plug assembly also provides an IP67 rated seal with the cord, as well as strain, flex and impact relief.



Features and Benefits:

- Audible, tactile and visual confirmation of engagement
- Avoids accidental disconnects
- Resistant to water and dust exposure and humidity
- Mechanical cable strain, flex and impact relief
- Robust keying of jack housing to faceplate

Physical Specifications:

Faceplate Width: 2.75 in (single gang) (7 cm)
4.56 in (double gang) (11.6 cm)

Faceplate Height: 4.5 in (11.4 cm)

Size of Opening to Accept Receptacle: approx 1.1 in (2.8 cm)

Plug Diameter: 1.15 in (2.9 cm)

Material: High impact plastic

Temperature: -13°F to 185°F (-25°C to 85°C)

Standards:

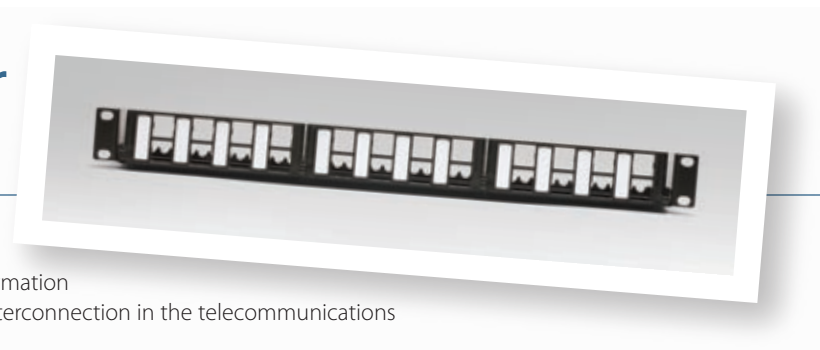
IP65 and IP67
UL and cUL Listed

Additional
Copper
Connectivity

Product Number	Detailed Description	Material ID
MIR-RJ45	M-Series Ruggedized Receptacle	760042960
MIR-CAP	Ruggedized Receptacle - Cap	760042978
IR11SP	Faceplate—Single Gang—1-Port—Stainless Plate	760042994
IR12SP	Faceplate—Single Gang—2-Port—Stainless Plate	760043000
IR22SP	Faceplate—Double Gang—2-Port—Stainless Plate	760043026
IR24SP	Faceplate—Double Gang—4-Port—Stainless Plate	760043018

Detailed Description	CPC Code
GS8E-IP Ruggedized Plug to GS8E, Coiled Strain Relief	CPCC312
GS8E-IP Ruggedized Plug to Un-terminated, Coiled Strain Relief	CPCC412
GS8E-IP Ruggedized Plug to Ruggedized Plug, Coiled Strain Relief	CPCCC12
GS8E-IP Ruggedized Plug to GS8E, Domed Strain Relief	CPCD312
GS8E-IP Ruggedized Plug to Un-terminated, Domed Strain Relief	CPCD412
GS8E-IP Ruggedized Plug to Ruggedized Plug, Domed Strain Relief	CPCDD12

Universal Modular Patch Panel



SYSTIMAX Universal Modular Patch Panel is a 19 inch rack mounted panel. It accepts up to 36 M-Series information outlets and other M-Series outlets for patching and interconnection in the telecommunications closet or equipment room.

This modular concept allows termination of outlets in the field; coupled with high density and the ability to integrate InstaPATCH pre-terminated fiber modules in the same footprint, it is an ideal data center solution. It consists of a rack mounted base unit, three slide-in modules with interchangeable front bezels cable management brackets and a flip-down removable front cover for close-out. The universal modular panel accepts GigaSPEED X10D/XL, PowerSUM and LazrSPEED apparatus.

The panel's 1U height maximizes office space. Color coding is possible by use of colored outlets.

Features and Benefits:

- Accommodates up to 36 M-Series information outlets for easy termination of 4-pair copper cables, in addition to coaxial outlets and S-Video and RCA adapters
- 1U design maximizes rack space
- Integrated cable management enables enhanced cable routing
- Modularity will support up to three multimedia modules
- Three methods of labeling are provided: on the inside of the front cover, on the rear of the base, and on the front of each of the bezels

Physical Specifications:

Height: 1.72 in (4.4 cm)

Width: 19 in (48.3 cm)

Depth: 4.17 in (10.6 cm)

Detailed Description	Material ID
UMP 36-Port Panel Kit (Panel, Brackets, Tie Wraps, Screws, Cover and three 12-Port Bezel Kits)	760026690
UMP Blank Panel Kit (Bezel Kits not included)	760026740
UMP 24-Port Panel without cover	760034710
UMP 36-Port Panel without cover	760034736
UMP Cover Kit	760035501
UMP 8-Port Bezel Kit	760026716
UMP 12-Port Bezel Kit	760026724
Label Kit for UMP 36-Port Panel	760036087
UMP Fiber Panel Kit (Three InstaPATCH Fiber Bezels, Panel – the cassette not included)	760026708

Additional
Copper
Connectivity

FlexiMAX Patch Panel

The SYSTIMAX FlexiMAX panel is an alternative modular panel that allows for patching and interconnection in the telecommunications closet or equipment room. The FlexiMAX 24-port panel can hold up to 24 MGS500, MGS400 or MPS100E high density modules (HDMs) (not included). The front appearance of the panel comprises two rows of square punchouts, which allow ease of installation and access to the HDMs.

Physical Specifications

Height: 1.72 in (4.4 cm)

Width: 19 in (48.3 cm)

Depth: 4.17 in (10.6 cm)

Detailed Description	Material ID
FlexiMAX High-Density Panel	108356312
FlexiMAX Residential Panel (10 inch)	760026799



M1000P5 MultiMAX Panel

Designed for premises data and voice networks employing copper and/or fiber terminations, the M1000P5 MultiMAX Panel is an aluminum panel that provides for patching or interconnect in the telecommunications closet or equipment room. Mounting options for the 3.5 in (8.9 cm) high M1000P5 panel include a standard EIA 19 in (48.3 cm) rack or a hinged wall mount bracket. Packaged with the panel are mounting collars for up to 24 modular outlets or fiber connections and two wire guides for cord management. For copper terminations, the mounting clips provide a fixture for holding the M-series modular information outlets when terminating conductors and also provide strain relief for the cable when snapped into the panel. Mounting clips also accommodate the M81LC, M81ST and M81SC for fiber terminations.

In addition to the above and ordered separately are the M1000FSSK (Fiber Spool Storage Kit); the M1000FMK (Fiber Mounting Kit) for fiber terminations; and the M1000WG (Wire Guides) for cord management. The M1000FSSK mounts on the rear of the M1000P5, provides fiber storage and manages the slack in the fiber, while maintaining the necessary minimum bending radius.

Physical Specifications:

Height: 3.5 in (8.9 cm)

Width: 19 in (48.3 cm)

Depth: 7 in (17.8 cm)

Product Number	Detailed Description	Material ID
M1000P5	24-Port Panel w/ 25 Mounting Clips, 4 Screws and 2 Wire Guides	108006198
M1000FSSK	Fiber Storage Spool Kit w/ 6 Singlemode Fiber Guides and 3 Wire Guides	107535080
M1000FMK	Duplex SC Fiber Mounting Kit w/ 1 Collar Lock	107535072
M1000WG	Wire Guide	107382525
M1000PMC-B	Mounting Collars (pack of 25)	108006206



Additional
Copper
Connectivity

Category 3, UTP Cable

Category 3 cable is used in SYSTIMAX SCS voice and low speed data applications. Consists of 24 AWG solid copper conductors insulated with color coded PVC. UL and cUL compliant.

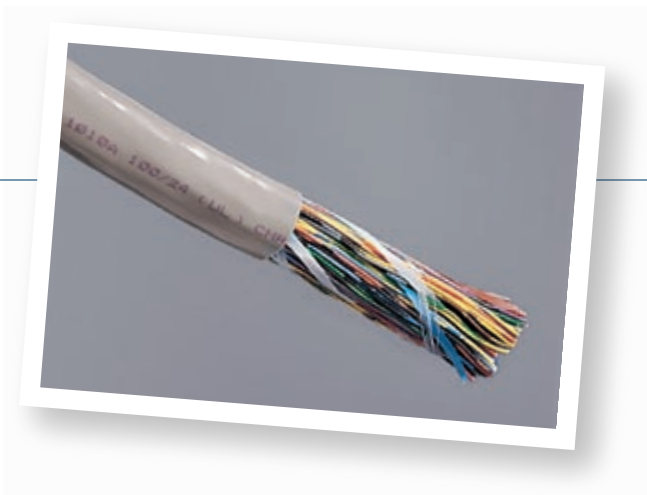
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Physical Specifications:

Weight: 4-Pair: 18.2 lbs/kf (27.2 kg/km)
25-Pair: 95.8 lbs/kf (142.7 kg/km)
50-Pair: 189.9 lbs/kf (283.0 kg/km)
100-Pair: 361.8 lbs/kf (539.1 kg/km)

Outside Diameter: 4-Pair: 0.17 in (4.6 mm)
25-Pair: 0.40 in (10.2 mm)
50-Pair: 0.54 in (13.7 mm)
100-Pair: 0.73 in (18.5 mm)

Gauge: 24 AWG



Product Number	Pair Count	Color	Length	Package	Material ID
1010 004ABE 4/24 W1000	4	Beige	1,000 ft (305 m)	We Tote Box	106300106
1010 004AGY 4/24 R1000	4	Gray	1,000 ft (305 m)	Reel	106062532
1010 004AGY 4/24 W1000	4	Gray	1,000 ft (305 m)	We Tote Box	106062524
1010 004ALB 4/24 W1000	4	Light Blue	1,000 ft (305 m)	We Tote Box	106300098
1010 004AWH 4/24 W1000	4	White	1,000 ft (305 m)	We Tote Box	108689134
1010 025AGY 25/24 R1000	25	Gray	1,000 ft (305 m)	Reel	106824329
1010 050AGY 50/24 R1000	50	Gray	1,000 ft (305 m)	Reel	106824378
1010 100AGY 100/24 R1000	100	Gray	1,000 ft (305 m)	Reel	106824469

Plenum 2010

Physical Specifications:

Weight: 4-Pair: 19.3 lbs/1,000 ft (28.8 kg/km)
25-Pair: 95.8 lbs/1,000 ft (143 kg/km)
50-Pair: 210 lbs/1,000 ft (313 kg/km)
100-Pair: 399 lbs/1,000 ft (595 kg/km)

Outside Diameter: 4-Pair: 0.181 in (4.60 mm)
25-Pair: 0.470 in (11.94 mm)
50-Pair: 0.630 in (16.00 mm)
100-Pair: 0.840 in (21.34 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
2010 004BBL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	107819146
2010 004BBL 4/24 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	107078404
2010 004BGY 4/24 R1000	4	Gray	1,000 ft (305 m)	Reel	107256745
2010 004BGY 4/24 W1000	4	Gray	1,000 ft (305 m)	We Tote Box	107256737
2010 004BWH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107078396
2010 004BWH 4/24 W1000	4	White	1,000 ft (305 m)	We Tote Box	107078388

Additional
Copper
Connectivity

Product Number	Pair Count	Color	Length	Package	Material ID
2010 025BWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	107765992
2010 050BWH 50/24 R1000	50	White	1,000 ft (305 m)	Reel	107766040
2010 100BWH 100/24 R1000	100	White	1,000 ft (305 m)	Reel	107766057
2010 004BYL 4/24 R1000	4	Yellow	1,000 ft (305 m)	Reel	107256786
2010 004BYL 4/24 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	107078412

Low Smoke Zero Halogen 3010

Physical Specifications:

Weight: 25-Pair: 252 lbs/1,000 ft (375 kg/km)
50-Pair: 863 lbs/1,000 ft (1,287 kg/km)

Outside Diameter: 25-Pair: 0.49 in (12.4 mm)
50-Pair: 0.89 in (22.6 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
3010 025BSL 25/24 RVAR	25	Slate	Variable	Reel	760010900
3010 100BSL 100/24 RVAR	50	Slate	Variable	Reel	760010918

Additional
Copper
Connectivity

M1 Category 3, Information Outlets

The M1BH Modular Telecommunications Outlets are designed for voice, low speed networks and Integrated Services Digital Network (ISDN) applications requiring an 8-position/8-conductor outlet. The M1BH outlets are designed to snap into any M-Series modular faceplate, frame or surface-mount box. A special lubrication process provides for a minimum of 750 plug insertions.



The M1BH outlet uses the universal wiring labels which display both T568A and T568B wiring.

The M1AH modular telecommunications outlets are designed for voice and other applications requiring a 6-position/6-conductor USOC wired outlet. The M1AH outlets are designed to snap into any M-series modular faceplate, frame or surface-mount box.

Physical Specifications:

Dimensions: HxWxD: 0.8 in x 0.8 in x 1.2 in (2.0 cm x 2.0 cm x 3.1 cm)
Universal A/B labeling

Plastic Material: High-impact, flame retardant, thermoplastic

Flammability Rating: UL-rated 94 V-0

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Humidity: 95% (non-condensing)

Contact Material & Plating: Copper alloy, 100 micro-inch (2.54 microns) bright solder over 100 micro-inch (2.54 microns) nickel underplate. Insulation displacement connectors accept solid or stranded wire

Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm)

Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm)

Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)

Insulation Type: All plastics insulates, including: Polyethylene, Polypropylene, PTFE, Polyurethane, Nylon and FEP

Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate

Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack

Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

Plug/Jack Contact Force: 100 grams minimum per contact using

FCC approved plug

Electrical Specifications:

TIA/EIA Category: 3

Data Rate: Compatible with 10 Mbps Institute of Electrical and Electronics Engineers Inc. (IEEE) 802.3 10BASE-T applications. Compatible with 16 Mbps IEEE 802.5 token ring applications.

Insulation Resistance: 500 megaohms minimum

Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

Current Rating: 1.5 A at 68°F (20°C)

UL and cUL Listed

Product Number	Color	Qty/Pkg	Wiring	Material ID
M1BH-H-003	Electrical Black	1	T568A/T568B	107321697
M1BH-H-112	Electrical Orange	1	T568A/T568B	107346744
M1BH-H-123	Yellow	1	T568A/T568B	107321705
M1BH-H-226	Green	1	T568A/T568B	107321713
M1BH-H-246	Electrical Ivory	1	T568A/T568B	107321721
M1BH-H-262	Electrical White	1	T568A/T568B	107321739
M1BH-H-270	Electrical Gray	1	T568A/T568B	107321747
M1BH-H-317	Red	1	T568A/T568B	107321754
M1BH-H-318	Blue	1	T568A/T568B	107321762
M1BH-H-215	Misty Cream	1	T568A/T568B	108480575

Additional
Copper
Connectivity

Miscellaneous Outlets

Product Number	Color	Qty/Pkg	Wiring	Material ID
M1AH-003 Module	Black	1	6-Pin Jack	107322133
M1AH-112 Module	Orange	1	6-Pin Jack	107322141
M1AH-246 Module	Ivory	1	6-Pin Jack	107322158
M1AH-262 Module	White	1	6-Pin Jack	107322166
M1AH-270 Module	Gray	1	6-Pin Jack	107322174
M1AH-215 Module	Misty Cream	1	6-Pin Jack	108480609
M1BHU-246 Module	Ivory	1	USOC	107322224
M1BHU-262 Module	White	1	USOC	107322240
M1BHU-112 Module	Orange	1	USOC	107346801
Hand Held Terminating Device	Black	1	N/A	760034215

The outlets listed in this product table are not covered by the SYSTIMAX 20-Year Extended Product Warranty and Application Assurance.

Additional
Copper
Connectivity

110 Wiring Blocks

The 110 Wiring Block is used to terminate cable pairs and permits a neat, organized arrangement of cables behind the block.

It is a flame retardant molded plastic block with horizontal strips, each of which secures and organizes 25 cable pairs. The index strips are marked with five tip colors to help the installer locate pairs quickly.

The blocks accommodate 22 through 26 AWG conductors and can be mounted directly on wall surfaces without backboards.

There are two types of 110 Wiring Blocks: "A" wiring blocks and "D" wiring blocks. The 110A Wiring Block is equipped with legs to provide space behind the block; also, the space on the sides can be used as a vertical jumper trough. The 110D Wiring Block is built without legs and is used where depth is restrictive. These blocks are used in conjunction with the 110C Connecting Blocks, which are ordered separately.

The 110RA 12/38 Rivet Kits may be used to secure the 110 blocks without legs on to the 110 Patch Panel System backboards.

The 88A2 is a molded plastic clip-on part that attaches to the legs of the 110AW2 wiring block.



Physical Specifications:

Height: 25/50-Pair: 1.75 in (4.45 cm)

100-Pair: 3.59 in (9.12 cm)

300-Pair: 10.79 in (27.41 cm)

Width: "A" block, 10.72 in (27.23 cm); "D" block, 8.5 in (21.6 cm)

Depth: "A" block, 3.25 in (8.25 cm); "D" block, 1.4 in (3.6 cm)

Electrical Specifications:

UL and cUL Listed

110 Wiring Blocks (Without 110C Connecting Blocks)

Product Number	Pair Count	Block Type	Material ID
110AW2-100	100	A	107059891
110AW2-300	300	A	107059917
110DW1-25	25	D	107256653
110DW1-50	50	D	107256661
110DW2-100	100	D	107059909
110DW2-300	300	D	107059925

110 Field Terminated Cross-Connect System Terminal Blocks

Product Number	Pair Count	Block Type	Material ID
110AA2-100FT	100	A	107058901
110AB2-100FT	100	A	107058919
110AC2-100FT	100	A	107058927
110AA2-300FT	300	A	107058935
110AB2-300FT	300	A	107058943
110AC2-300FT	300	A	107058950

Rivet Kits

Product Number	Count	Block Type	Material ID
110RA-12 KIT	12	A	107611626
110RA-38 KIT	38	A	107611634

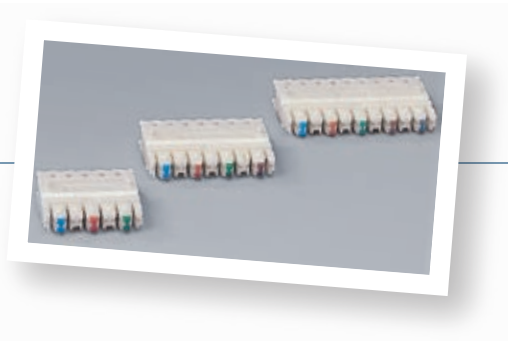
Retainer

Product Number	Detailed Description	Material ID
88A2	Retainer (Retains cross-connect wires and clips onto 110AW2 blocks)	107267452

Additional
Copper
Connectivity

110C Connecting Blocks

The 3-Pair (110C-3), 4-Pair (110C-4) and 5-Pair (110C-5) Connecting Blocks consist of a 1-piece, flame retardant, molded plastic housing containing solder-plated quick clips that cut through the insulation on 22 through 26 AWG conductors as they are seated onto the wiring block.



The front of the connecting block is color-coded, allowing rapid pair identification and termination. The connecting blocks seat on the 110 Wiring Block and provide an electrically gas tight connection between cable conductors terminated on the wiring block and Cross-connect Wire or 110 Patch Cords.

Physical Specifications:

Height: 0.25 in (0.64 cm)
Width: 3-Pair: 0.9 in (2.3 cm)
4-Pair: 1.2 in (3.05 cm)
5-Pair: 1.5 in (3.8 cm)
Depth: 0.93 in (2.36 cm)

Product Number	Pair Count	Qty/Pkg	Material ID
110C-3	3	10	103801239
110C-4	4	10	103801247
110C-5	5	10	103801254
110C-3k	3	1000	106698319
110C-4k	4	1000	106698327
110C-5k	5	1000	106698335
110C-4N	4	1000	106699614
110D-2A	2	1000	106775570
110D-2A	2	1000	108571878
110D-4	4	1000	104055850
110D-4N	4	1000	106615990
110D-4P	4	1000	107222747

Additional
Copper
Connectivity

110 Labels and Holders

The 110 Label assembly consists of a clear label holder (188UT1-50) and colored label inserts (available in green, purple, yellow, blue, gray, brown, white and orange).

The insert labels contain vertical lines spaced on the basis of circuit size (3-, 4-, 5 pair). The transparent label holder snaps onto the wiring block to clearly identify wiring functions, provide circuit information and conceal and protect the cable conductor terminations. The labels will not interfere with placing, tracing or removing jumper wires.



Product Number	Detailed Description	Color	Pair Count	Qty/Pkg	Material ID
188UT1-50	Label Holder	Transparent		6	103895504
110YB2-4500L	Label	Yellow	4	90	106657232
110YA2-4500L	Label	Yellow	5	90	106657158
110WB2-4500L	Label	White	4	90	106657216
110WA2-4500L	Label	White	5	90	106657133
110SA2-4500L	Label	Gray	5	90	106657166
110PB2-4500L	Label	Purple	4	90	106657190
110PA2-4500L	Label	Purple	5	90	106657117
110GB2-4500L	Label	Green	4	90	106657182
110GA2-4500L	Label	Green	5	90	106657109
110BB2-4500L	Label	Blue	4	90	106657174
110BA2-4500L	Label	Blue	5	90	106657091
188BB1-100	Designation Strips	Blue		2	102579810
188BG1-100	Designation Strips	Blue		1	103103701

110 Patch Panel System Terminal Blocks

The 110 Patch Panel System Terminal Blocks are used to terminate connectorized or raw-ended cable pairs.

Connecting blocks in 3-, 4-, or 5-pair sizes may be specified to match the pairs per circuit of the system in use. Transparent label holders allow you to insert circuit identification labels. Field terminated terminal blocks, which allow direct termination of building cables, are also available in 300- and 900-pair sizes.

Physical Specifications:

Height: See Product List Table

Width: 8.5 in (21.60 cm)

Depth: 8.05 in (20.45 cm)

Electrical Specifications:

UL and cUL Listed



Product Number	Height	Termination	Pair	Pair Count	Material ID
110PA2-300FT	24.68 in (62.69 cm)	Field Terminated	5	300	107058802
110PB2-300FT	24.68 in (62.69 cm)	Field Terminated	4	300	107058810
110PC2-300FT	24.68 in (62.69 cm)	Field Terminated	3	300	107058828
110PA2-900FT	61.70 in (156.72 cm)	Field Terminated	5	900	107058851
110PB2-900FT	61.70 in (156.72 cm)	Field Terminated	4	900	107058869
110PC2-900FT	61.70 in (156.72 cm)	Field Terminated	3	900	107058877

110 Connector System Mounting Brackets

The 110 Mounting Brackets are used for mounting the 110 Connector System hardware on a 19 inch wide frame rack or a data cabinet. On the rear of the brackets are cable support rings to secure cable that is routed through openings in the mounting bracket to the wiring blocks. Cross-connect wire or patch cords are routed from the wiring blocks through the troughs to the side of the frame to facilitate wire management. These mounting brackets can be mounted one on top of the other to support pair requirements.

The 110RD2-100-19 Mounting Bracket is designed to mount two 110DW1-25 or 110DW1-50 Wiring Blocks and two 110B3 Troughs on an EIA 310C 19 inch wide frame.

The 110RD2-200-19 Mounting Bracket is designed to mount two 110DW2-100 Wiring Blocks and two 110B3 Troughs on an EIA 310C 19 inch wide frame.

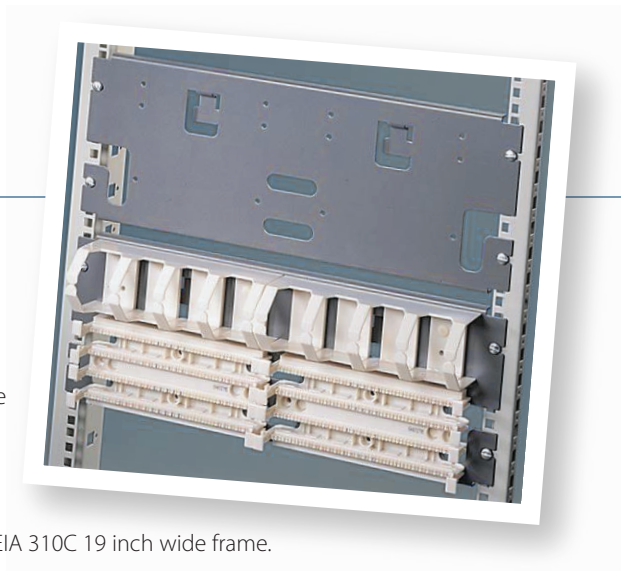
The 110RP2-600-19 Mounting Bracket has a set of three 1 inch bars that attach to the 19 inch frame to support two 110 pre-connectorized patch panels or patch panel and 188 Backboard and connector bracket.

Physical Specifications:

Height: 110RD2-100-19: 5.13 in (13.0 cm)
110RD2-200-19: 7 in (17.78 cm)
110RP2-600-19: 1 in (2.54 cm)

Width: 19 in (48.3 cm)

Product Number	Qty/Pkg	Material ID
110RD2-100-19	1	107535593
110RD2-200-19	1	107535585
110RP2-600-19	3	107098816



Additional
Copper
Connectivity

110 Patch Panel System Backboard

The 188C3 and 188D3 110 Patch Panel System Backboards are metal panels equipped with distributing rings that provide the vertical paths for running patch cords or jumpers between 110 Patch Panel System Terminal Blocks.

Physical Specifications:

Width: 8.5 in (21.60 cm)

Depth: 8 in (20 cm)



Product Number	Detailed Description	Height	Material ID
188C3	Used with 900-Pair Terminal Blocks	61.8 in (157 cm)	107151185
188D3	Used with 300-Pair Terminal Blocks	24.0 in (61 cm)	107151193

188B Backboard

The 188B1 or 188B2 Backboard is made of metal and has two closed, formed, plastic distribution rings. It is used with 110A Wiring Blocks to arrange jumper wires running between columns of wiring blocks. The backboard is placed between fields, where it serves as a horizontal trough for the wires and provides space to change the direction of jumpers. One backboard is used for each vertical column of 110A Wiring Blocks. The 188B2 Backboard is the same as the 188B1 Backboard except it has legs to allow space for routing the cable behind the backboard.

Physical Specifications:

Height: 188B1: 6.50 in (16.50 cm)

188B2: 6.50 in (16.50 cm)

Width: 188B1: 10.72 in (27.23 cm)

188B2: 10.75 in (27.31 cm)

Depth: 188B1: 3.50 in (8.90 cm)

188B2: 4.82 in (11.45 cm)

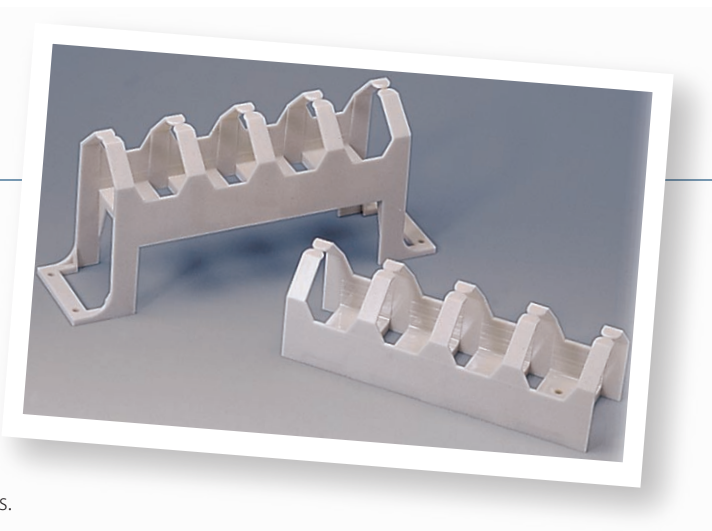


Product Number	Detailed Description	Material ID
188B1	Without Legs	102689569
188B2	With Legs	104405113

Additional
Copper
Connectivity

110 Jumper Troughs

The 110 Jumper Trough is a white, flame retardant, molded, plastic frame that accommodates patch cords or cross-connect wire. It is placed between each 100-pair wiring block and at the top of each column, where it serves as a horizontal trough for routing patch cords and cross-connect wire. The trough is available with legs (110A3 Trough) for use with the 110A Wiring Block or without legs (110B3 Trough) for use with the 110D Wiring Block or Patch Panel Terminal Block. The 110A2 Distribution Ring is used to route cross-connect wire or patch cords alongside the wiring blocks.



Physical Specifications:

Height: 2.64 in (6.7 cm)

Width: 110A3: 10.72 in (27.30 cm)
110B3: 8.44 in (21.60 cm)
110A2: 0.58 in (1.5 cm)

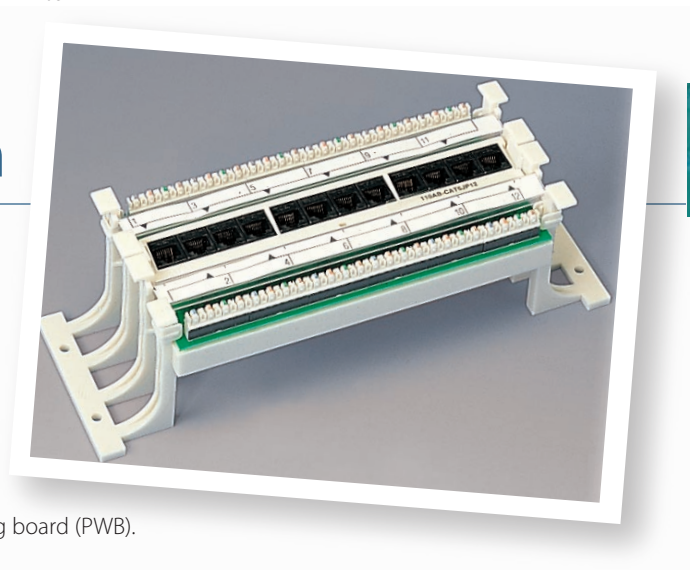
Depth: 110A3: 5.25 in (11.91 cm)
110B3: 3.50 in (6.83 cm)
110A2: 3.25 in (8.26 cm)

Product Number	Detailed Description	Material ID
110A3	With Legs	107831133
110B3	Without Legs	107831141
110A2	Distribution Ring	107214405

110 Jack Panel System

The 110 Jack Panel System consists of 8-pin modular jacks, mounted in a metallic holder and wired to a standard 110-Type Wiring Block.

The 110AB-CAT5 and 110PB-CAT5 Modular Jack Panels with T568A and T568B wiring are connecting hardware apparatus products used for the termination and inter-connection of voice and/or data circuits in premises wiring systems. These jack panels consist of a 110 insulation displacement connector (IDC) field and an 8-pin modular jack through the printed wiring board (PWB). This product is TIA/EIA Category 5 compliant.



Additional
Copper
Connectivity

Product Number	Detailed Description	Wiring	Material ID
110AB-CAT5PS-JP12B	12 Modular Jacks on a 100-Pair Wiring Block (With Mounting Legs)	T568B	107920704
110AB-CAT5PS-JP12A	12 Modular Jacks on a 100-Pair Wiring Block	T568A	107920753
110BB-CAT5PS-JP12FTB	12 Modular Jacks on a 110DW2 100-Pair Wiring Block (Without Mounting Legs)	T568B	107920738
110AB-CAT5PS-JP36B	36 Modular Jacks on a 300-Pair Wiring Block (With Mounting Legs)	T568B	107920712
110AB-CAT5PS-JP36A	36 Modular Jacks on a 300-Pair Wiring Block	T568A	107920761
110PB-CAT5PS-JP108B	108 Modular Jacks on a 900-Pair Patch Panel Terminal Block	T568B	107920746

110 Patch Cords and Adapter Cords

The 110 cord family provides for the administration and interconnection of data and voice circuits. All cords are manufactured with 1074 cordage. The round cordage consists of 24 AWG tinned copper, stranded conductors insulated with high density polyethylene. The insulated conductors are tightly twisted into individual pairs and jacketed with flame retardant PVC.

Patch cords are orderable using a 14-character feature configuration coding scheme which replaces the familiar 9-character Material ID. This allows maximum flexibility for ordering many different combinations of plug ends, cordage types, colors and lengths. Please use SYSTIMAX Copper Patch Cord Product Identifier (in Copper Reference Section) for ordering information or contact your SYSTIMAX BusinessPartner.



Physical Specifications:

Plastic Material: Polycarbonate Blend

Flammability Rating: UL-rated 94 V-O

Contact Material: Phosphor Bronze

Contact Plating: Gold 2 to 5 micro-inch (0.051 to 0.128 microns)
Nickel 75 micro-inch (1.91 microns)

Plug Insertion Life: 200 minimum

Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

UL and cUL: CM (cordage)

Detailed Description	Pair Count	CPC Code
110GS to 110GS	2	CPC8852
110GS to 110GS	1	CPC8862
A Wired 110GS to D8PS PowerSUM	4	CPC8641
A Wired 110GS to GS8E GigaSPEED (Cat 6)	4	CPC8341
B Wired 110GS to GS8E GigaSPEED (Cat 6)	4	CPC8342
110GS to 110GS (Cat 6)	4	CPC8812
110GS / Unterminated (Cat 6)	4	CPC8412
110GS to RJ45	4	CPC8312

Additional
Copper
Connectivity

110 Tools

The 788H1 Impact Tool is used for insertion only, or to insert and trim up to five wires at a time on the wiring block and to seat the 110C Connecting Block. The handle is fitted with a rubber grip for better gripping and comfort. The 788M2 aluminum frame replacement head for the tool can be ordered separately.

The 788E (Electrical) Tool is a multi-impact, electrically operated, hand held tool. Like the 788H1, it terminates 5 wires at a time with the same combination of seat only or seat and cut wires with a minimum change of the head as well as seating the 3-, 4-, and 5-pair connecting blocks. The trigger-activated electric solenoid action eliminates the physical exertion required with other push-down impact tools while ensuring proper termination with uniform punch force. The flexible head rotates in 90 degree increments and can easily be replaced. A safety slide lock on the trigger prevents accidental operation. The tool requires a standard 120v current and features a locking retainer to keep the extension cord from being detached from the tool cord.

The 788P Pressing Head Assembly is a plastic stuffer required with the 788E Electric Tool and can be used with the 788H1 Tool Kit.

The 788 Kit and 788P Pressing Head Assembly provide a direct replacement for the 788M1 tool.

The 788 Kit is a kit of 2 blades and is a direct replacement for the 788 Tool Kit (106 981 848).

The 788K1 Wire Retention Tool is used as an aid in holding down cable conductors when removing 110-Type Connecting Blocks.

The Spudger is a small pencil-shaped plastic tool with a sharp, pointed L-shaped metal pick that is used to lift and remove small pieces of conductor insulation caught in the 110-Type Wiring Block or between the plastic teeth of the 110-type Connecting Block.

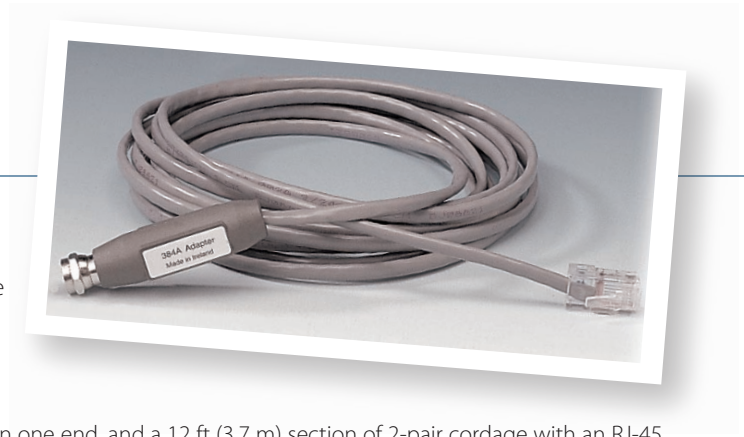


Additional
Copper
Connectivity

Product Number	Detailed Description	Material ID
788H1	Impact Tool	108062043
788M2	Replacement Head	107975864
788 Kit	Replacement Blades	407732585
788P	Pressing Head Assembly	407742741
788K1	Wire Retention Tool	102655495
KS-22035-L2	Spudger	405423260
VP360-788-HEAD	VisiPatch 360 4-pair Head for 788 Tool	760060350
VP360-914-BIT	914 Impact Tool	760060368

384A Video Adapter

The 384A Video Adapter is a broadband Community Access Television (CATV) video device that performs common mode filtering, balancing and impedance matching to provide connectivity to SYSTIMAX SCS. It permits connectivity between broadband CATV video distribution equipment.



The 384A is equipped with an F-type male connector plug on one end, and a 12 ft (3.7 m) section of 2-pair cordage with an RJ-45 on the other. The RJ-45 should be connected to the work area information outlet, or the modular RJ-45 jack panel in the telecommunications closet or equipment room. The F-type plug is used to connect to the broadband video distribution equipment.

Physical Specifications:

Length: Housing: 2.3 in (5.8 cm)
Cable: 12 ft (3.7 m)

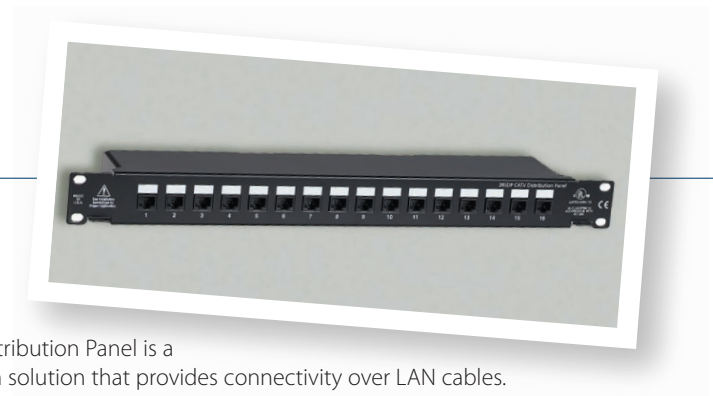
Electrical Specifications:

Bandwidth: 55 MHz - 550 MHz
Input Impedance (Source): 75 Ohms Unbalanced
Output Impedance (Twisted Pair): 100 Ohms Balanced
Common Mode Rejection: >40 dB
Signal To Noise Ratio: >60 dB

Product Number	Detailed Description	Material ID
384A	Broadband Video Adapter	107213605

385DP CATV Distribution Panel

The 385DP Broadband CATV Distribution Panel allows analog broadband video distribution over enhanced PowerSUM and GigaSPEED Solutions.



The 19 inch wide rack mountable 385DP Broadband CATV Distribution Panel is a passive self-terminating 1 by 16 coax-to-UTP CATV distribution solution that provides connectivity over LAN cables.

The 385DP is equipped with an F-type coaxial input connector (female) and 16 8-pin output modular jacks (female). A single 385DP distributes CATV signals for up to 16 locations.

The 385DP is typically installed in a telecommunications closet or equipment room and transmits CATV signals in the horizontal subsystem to 384A adapters located in the work location.

Electrical Specifications:

Operation Distances: 60 meters - 77 channels for a minimum received signal level of 0 dBmV
100 meters - 28 channels for a minimum received signal level of 0 dBmV
100 meters - 50 channels for a minimum received signal level of -10 dBmV

Bandwidth: 5 MHz - 550 MHz

Emission: Tested to FCC Part 76 and CISPR PUB 22 Class B

Safety: UL, CSA and IEC 950

Product Number	Detailed Description	Material ID
385DP	Broadband CATV Distribution Panel	108120460

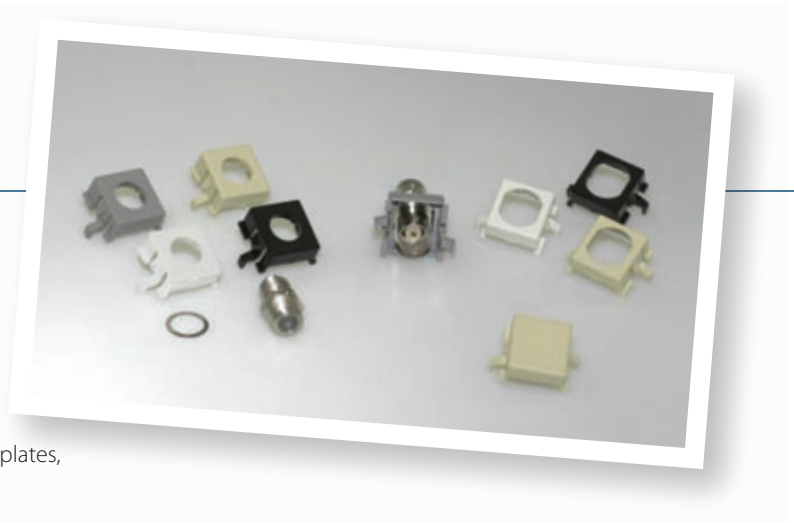
Additional
Copper
Connectivity

M81 Series Coaxial Adapter

The M81BNC-B is an M-Series Modular BNC Coupler (50 Ohm) Module designed for data applications. It can be mounted in any of the M-Series modular faceplates, surface mount boxes or mounting collars.

The M81C is an M-Series F-81 Coaxial Coupler (75 Ohms) Module designed for video applications. It can be mounted in any of the M-Series modular faceplates, surface mount boxes or mounting collars.

The M81 is an M-Series modular blank with rear snap-in and used to fill empty ports in M-Series modular faceplates, surface mount boxes or mounting collars.



Physical Specifications:

M81BNC-B:

Height: 0.69 in (17 mm)

Width: 0.73 in (18 mm)

Depth: 0.60 in (15 mm)

M81C:

Height: 0.69 in (17 mm)

Width: 0.73 in (18 mm)

Depth: 0.50 in (13 mm)

Product Number	Detailed Description	Material ID
M81BNC-B COUPLER	BNC Coupler	108009424
M81C-COUPLER	M-81 Coaxial Coupler	108009432
M81C-COUPLER	M81-Coaxial Coupler-Almond	760075069
M181C-Plus Coupler	M81C-Plus Coaxial Coupler	760049221
M81-003 BLANK	Blank, Black	106837206
M81-246 BLANK	Blank, Ivory	106837222
M81-262 BLANK	Blank, White	106837230
M81-148 BLANK	Blank, Almond	760074237

Additional
Copper
Connectivity

Audio/Video Adapter

The S-Video Outlet uses a 110 IDC (Insulation Displacement Contact) block to directly terminate to 4-pair building wiring. Each S-Video module connects to one UTP 4-pair cable. The S-Video Modular Outlets are compatible with M-Series modular faceplates, surface mount boxes, modular furniture faceplates and modular patch panels.

The S-Video or Super VHS (SVHS) Modular Outlets provide base band video connectivity to 24 AWG UTP SYSTIMAX wiring. Each S-Video outlet will connect to two pairs of the UTP cables. These outlets provide point-to-point transmission of analog baseband National Television System Committee (NTSC)/Phase-Alteration Line (PAL)/SECAM S-Video signals.

The RCA Outlets use a 110 IDC block to directly terminate the 4-pair building wiring. RCA outlets are used for connecting audio and video appliances to 24 AWG UTP SYSTIMAX wiring. Each RCA Outlet will connect to one pair of a UTP cable. The RCA modular adapters are compatible with M-Series modular faceplates, surface mount boxes, modular furniture faceplates and modular patch panels. They are offered with Red, White, Black or Yellow inserts. The RCA Outlet Module housings are offered in white, ivory, gray or black.

Electrical Specifications:

Attenuation DC 5.5. MHz: 1.5 dB max

Crosstalk: -60 dB at 5.5 MHz

Impedance S-Video and RCA Female Connector: 75 Ohms

UTP 110 Terminal Block: 110 Ohms

Typical Frequency Bandwidth: 4.2 MHz

Luminance Signal: (Y): 1 Vp-p (with 75 Ohms termination)

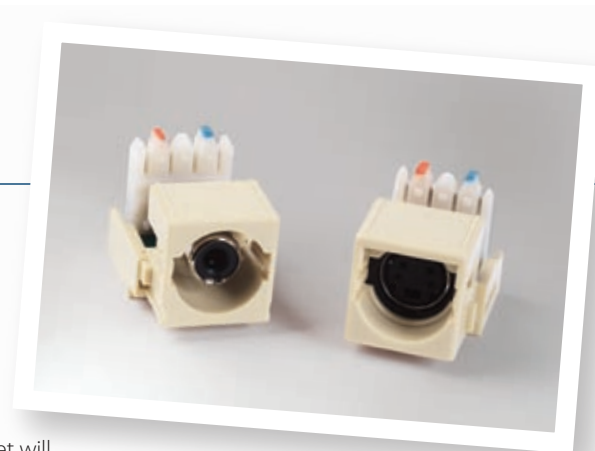
Chrominance Signal: (C): 0.29 Vp-p (with 75 Ohms termination)

Wire Type Standard UTP: Category 5, 5e or 6 #24 AWG 4-pair

Insulation Resistance: Minimum of 50 megaohms

Meet IEC Specifications: 933-5

Signal Strength: 1 Vp-p (with 75 Ohms termination)



Product Number	RCA Color	Outlet Color	Material ID
M81-SVHS-110-003	-	Black	760005256
M81-SVHS-110-246	-	Ivory	760005264
M81-SVHS-110-262	-	White	760005272
M81-SVHS-110-270	-	Gray	760005280
M81-RCA-110-003-W	White	Black	760005298
M81-RCA-110-246-W	White	Ivory	760005306
M81-RCA-110-262-W	White	White	760005314
M81-RCA-110-270-W	White	Gray	760005322
M81-RCA-110-003-Y	Yellow	Black	760005330
M81-RCA-110-246-Y	Yellow	Ivory	760005348
M81-RCA-110-262-Y	Yellow	White	760005355
M81-RCA-110-270-Y	Yellow	Gray	760005363
M81-RCA-110-003-R	Red	Black	760005371
M81-RCA-110-246-R	Red	Ivory	760005389
M81-RCA-110-262-R	Red	White	760005397
M81-RCA-110-270-R	Red	Gray	760005405
M81-RCA-110-003-B	Black	Black	760005413
M81-RCA-110-246-B	Black	Ivory	760005421
M81-RCA-110-262-B	Black	White	760005439
M81-RCA-110-270-B	Black	Gray	760005447
M81-RCA-PT	-	White	760005454
M81-RCA-PT	-	Yellow	760005462
M81-RCA-PT	-	Red	760005470
M81-RCA-PT	-	Black	760005488
3865 Video Adapter	Red/White	White	760047480

Additional
Copper
Connectivity

Category 6 and 5e, OSP Protector Units

SYSTIMAX Category 6 Protector is designed to give protection for data circuits entering a building. This solid state device protects sensitive network equipment from damage caused by transient voltage surges by diverting them to the ground in 2-5 nanoseconds.

Protection is provided for 4-pair LAN applications with 16V clamping voltage or 4-pair analog voice applications with a 235V clamping voltage. Grounding requires a field installed solid copper wire, 10 AWG for Primary and 14 AWG for Isolated Loop. Used with high performance 4-pair Category 6 Outside Plant Cables as well as Category 6 UTP cables to create a 100% solid-state protection for fast and reliable response to surge events. It meets the electrical specifications of TIA/EIA 568B.2-1 for Category 6 channel performance.



Physical Specifications:

Height: 4.25 in (10.8 cm)

Depth: 1.42 in (3.61 cm)

Width: 4.25 in (10.8 cm)

Electrical Specifications:

Protector Type: 100% Solid State

Clamping Voltage: 16 and 235 VDC

Maximum Response Time: 2-5 nanoseconds

Grounding Requirements: 10 AWG for primary or 14 AWG for isolated Loop Applications

Grounding Connection: Integral shield grounding clip attaches to cable

Product Number	Clamping Voltage	Applications	Material ID
Cat 6 235V	235 Volt	Analog Voice	760031708
Cat 6 16V	16 Volt	Data	760028373
Cat 6 16V w/POE	16 Volt	POE	760033951
Cat 5e 16V	16 Volt	Data	108224874



Multipair Protector Panel 190 Type

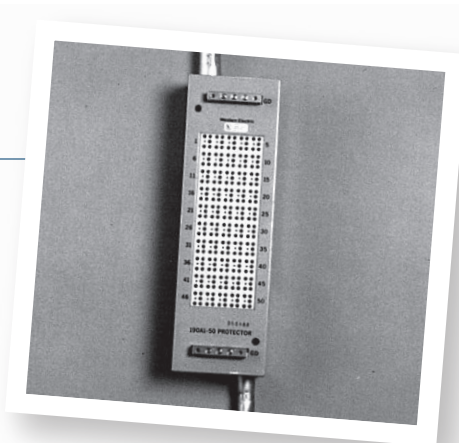
The 190 Type Multipair Protector Panel provides indoor station protection for exposed lines where the cross-connect field is separated from the protector panels at building entrance terminals. The protector panel consists of a metal housing containing mountings for 3B-, 3C-, 4B-, or 4C-Series Protector Units (sold separately). It also includes a 25 ft (7.62 m), 26 AWG stub cable that serves as a fusible link, a 24 AWG terminating cable and two connectors for external ground connections.

The internal wiring design prevents protector bypass. A cable pass-through feature allows for side-by-side and top-to-bottom installation.

Physical Specifications:

Height: 50-pair: 13 in (33.0 cm)
100-pair: 24 in (61.0 cm)
Width: 4 in (10.2 cm)
Depth: 2.75 in (6.99 cm)

Product Number	Pair Count	Material ID
190A1-50	50	102995073
190A1-100	100	102995099



Station Protector (110ANA Type) with 110 IDC for Both Input and Output

The 110ANA1 Multipair Protector Panel provides indoor station protection for small pair count applications using the 3B-, 3C-, 4B-, or 4C-Series Protector Units. The unique internal wiring design prevents protector bypass. Designed with 110-Type connecting blocks for input and output terminations, the 110ANA1 Multipair Protector Panel provides a modular, space efficient package with quiet front and simplified installation directly on the wall.

The individual protector modules should be ordered separately. The 110ANA1 multipair protector panel is UL listed.



Product Number	Detailed Description	Pair Count	Dimensions	Material ID
110ANA1-06	Station Protector, with 110 terminations, 5-pin protectors not included	6	4.1in (10.4 cm) W x 3.5 in (8.9 cm) H x 2.6in (6.6 cm) D	105736482
110ANA1-10	Station Protector, with 110 terminations, 5-pin protectors not included	10	3.9 in (9.9 cm) W x 4.5 in (11.4 cm) H x 2.6 in (6.6 cm) D	107408551
110ANA1-25	Station Protector, with 110 terminations, 5-pin protectors not included	25	3.9 in (9.9 cm) W x 10 in (25.4 cm) H x 2.6 in (6.6 cm) D	105736490

Additional
Copper
Connectivity

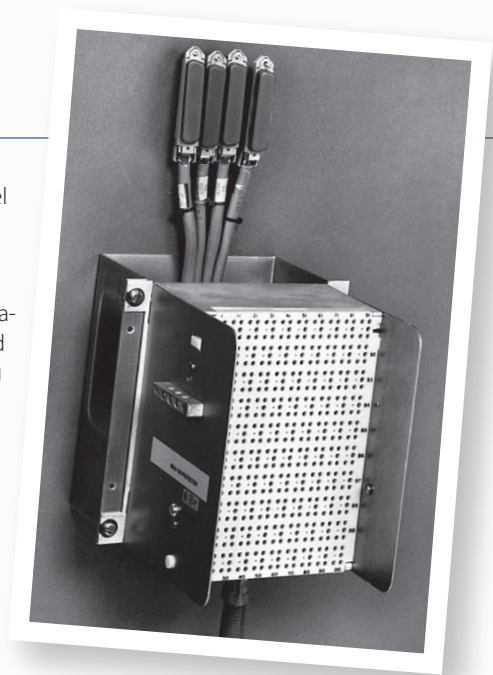
Building Entrance Terminal (195 Type)

The unit is equipped with a metal housing containing a 100-pair protector panel that accepts a wide range of interchangeable plug-in protector units. The input is either a 100 ft (30.48 m), a 25 ft (7.62 m) or 50 ft (15.24 m) long 26-gauge stub cable that serves as a fusible link. The output is a 1 ft (0.30 m) 24-gauge cable with either male or female RJ21 type connectors. The internal wiring design separates the input wires from the output wires, so in the event of a power cross and the input wire fuses open, they will not be connected to the output wires causing a bypass.

The 195A type has a wall mount bracket that acts as both a mounting bracket and a cable guide. The 195B type is a frame mounting version.

Features and Benefits:

- Very high density design saves space
- The protector panel terminals are gold plated for superior electrical connections
- Accepts a wide range of interchangeable plug-in protector units
- Two built-in 3-wire ground connectors facilitate termination of a No. 6 ground wire and strapping adjacent units together provides common positive grounding
- The units are available with both male and female output RJ21 connectors
- The input stub cables are 25 ft (7.62 m), 50 ft (15.24 m) or 100 ft (30.48 m) long



Product Number	Pair Count	Input	Output	Material ID
195A1-100-25	100	25 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105404776
195A1-100-025M	100	25 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564025
195A1-100-050	100	50 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564033
195A1-100-050M	100	50 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564041
195B1-100-25	100	25 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105501050
195B1-100-025M	100	25 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564058
195B1-100-050	100	50 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564066
195B1-100-050M	100	50 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564074
195B1-100-100	100	100 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564082
195B1-100-100M	100	100 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564090

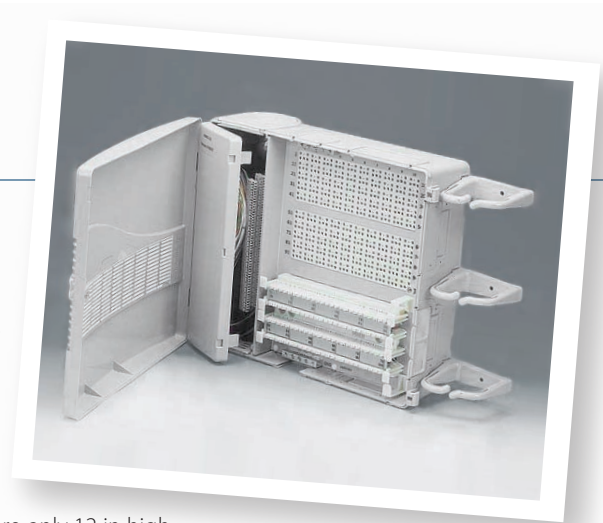
Additional
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Connectivity

Building Entrance Terminal (489A Type)

Reliable electrical protection is essential for securing sensitive equipment at the building entrance terminal. The lightweight and high density 489A protector provides this protection. Designed for use wherever exposed outside plant (OSP) cables enter the building, the unit provides electrical protection between the cable and sensitive devices.

Features and Benefits:

- The 489 units are lightweight (30 percent lighter than comparable models) with an attractive appearance
- High density design saves wall space (all units, even 200-pair, are only 12 in high by 14 in wide)
- Reliable 110-type IDC output connector for fast, easy connections
- The protector panel terminals are gold plated for superior electrical connections
- Accepts a wide range of interchangeable plug-in protector units
- Hinged, lockable covers provide additional mechanical protection and security
- An optional security kit (108314360) allows a padlock to be mounted on the cover
- A generous splice chamber with removable grommets allows easy OSP cable entry and splicing
- The splice chamber walls are insulated for better fuse coordination
- A velcro strap is used for wire management
- The 489 units are stacked to minimize wall space and simplify installation
- Two built-in 3-wire ground connectors facilitate termination of a number 6 ground wire, and strapping adjacent units together provides common positive grounding
- Additional side exits and common wire guides facilitate dressing and tracing of customer wire
- The units are available in 25, 50 and 100 pair count
- Dimensions are 12 in (30.5 cm) high by 14 in (35.5 cm) wide by 5.5 (14 cm) in thick except for 200-pair units which are 12 in (30.5 cm) high by 14 in (35.5 cm) wide by 8.5 in (21.5 cm) thick



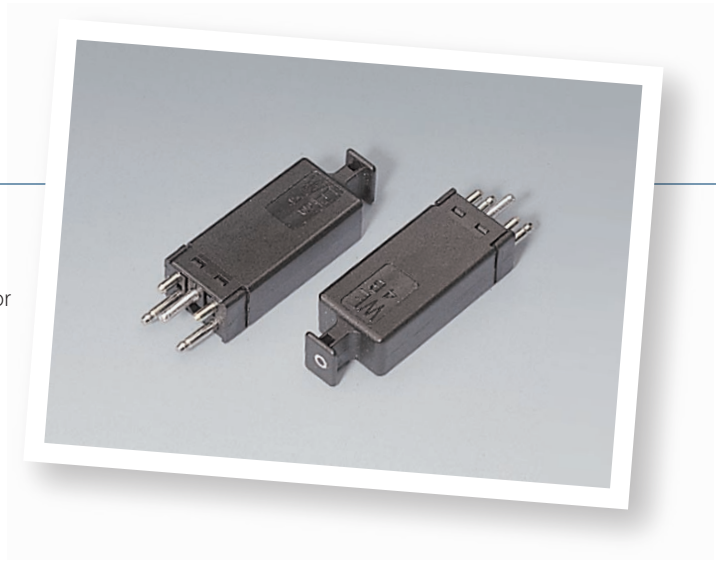
Additional
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Connectivity

Product Number	Pair Count	Input	Material ID
489ACA1-025	25	110 IDC	107894909
489ACA1-050	50	110 IDC	107894917
489ACA1-100	100	110 IDC	107894925
489ACC1-025	25	25 ft Stub Cable	107894941
489ACC1-050	50	25 ft Stub Cable	107894958
489ACC1-100	100	25 ft Stub Cable	107894966

Building Entrance Protectors

Building Entrance Protectors protect sensitive equipment and personnel from power surges, AC coupling, AC power cross and lightning strikes. Power surge can travel through buried or exposed OSP cable back to equipment within the premises. Plug in protectors (PIPs) in building entrance protectors (BEPs) act like a circuit breaker.

The 5-pin plug in protection units provide overvoltage protection with either a gas discharge tube or a solid state module.



Gas Discharge Tube

- Handles larger surges
- Possesses a higher holding current
- Used when high surge currents are common
- Used in extreme environments
- DSL friendly
- Used in low pair count applications

Solid State Module

- Tight breakdown voltage which provides a higher level of protection
- Longer life threshold (if surges are lower than rating)
- Fast response

Product Number	PIP Type	Breakdown	Over Current @ 25c	Circuit Application	Color	Material ID
3B1EW	GDT	265 – 465 V	N/A	Standard	Black	104410147
4B1EW	GDT w/ HC	265 – 465 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Standard	Black	104401856
3C1S	BSS	220 – 300 V	N/A	Standard	Black	105514756
4C1S	BSS w/ HC	220 – 300 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Standard	Black	104386545
4C3S-75	BSS w/ HC	60 – 90 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Data Circuits	Red	105581086

Note: GDT – gas discharge tube
HC – heat coils
BSS – balanced solid state

Additional
Copper
Connectivity

Additional
Copper
Connectivity

Fiber Solutions

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Fiber
Reference

Fiber Optic Solutions Reference

Fiber Optic Cable

Cable and Fiber Color Identification

Standard Jacket Color (according to fiber type):

Indoor: 50 micron (LazrSPEED)	AQ for Aqua	Outdoor and Indoor/Outdoor: All fiber types are BK for Black
62.5 micron (OptiSPEED)	OR for Orange or SL for Slate	
Singlemode (TeraSPEED)	YL for Yellow	

Standard Color Coding:

1 - Blue	5 - Slate	9 - Yellow
2 - Orange	6 - White	10 - Violet
3 - Green	7 - Red	11 - Rose
4 - Brown	8 - Black	12 - Aqua

For indoor and indoor/outdoor, fibers are identified with standard color code.

For 18 and 24 fiber single unit cables, fibers 13 through 24 repeat the sequence with tracer stripe (i.e. fiber 13 is blue with tracer stripe).

For central tube cables, fiber bundles and fibers are identified with standard color code.

For stranded loose tube cables, buffer tubes and fibers are identified with standard color code.

Cable Sizing and Specification

When sizing and selecting cable the following rules of thumb are useful. Please note, they are only guidelines. Since each site has its own unique characteristics, a detailed data collection and design process is required.

- A growth factor of between 50% and 100% is often applied after sizing current needs
- Factors affecting backbone cable sizing include:
 - Campus layout
 - Campus size (number of buildings)
 - Level of automation (amount of computer connectivity)
 - Amount of point-to-point traffic vs. LAN traffic
 - Level of redundancy
- Cable type selection is based on environment and cost
- Use a mixture of singlemode and multimode fiber optic cables (recommended 30:70 split minimum respectively)

Install both Multimode and Singlemode

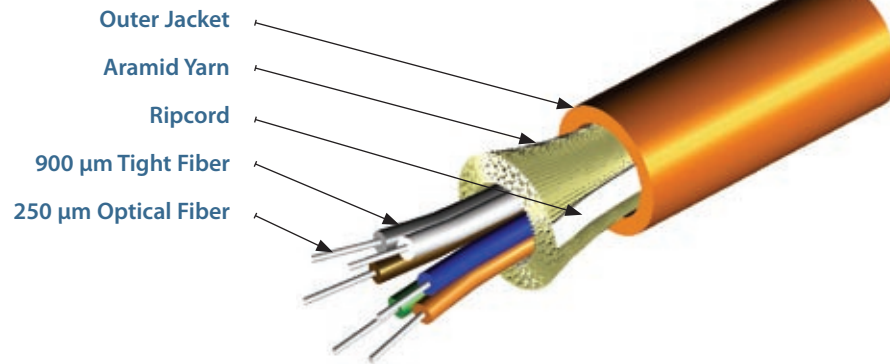
SYSTIMAX SCS recommends deploying multimode and singlemode fiber in the backbone segments of both buildings and campuses in the industrial and office environment. This combination will most cost-effectively support present day applications as well as provide future proofing for tomorrow's higher speed LANs and broadband video. Of course these recommendations must be weighed against the application and planning horizons of each customer. The optimal ratio of singlemode to multimode depends on the predicted need to support applications that exceed the capability of multimode. SYSTIMAX SCS generally recommends 30% singlemode to those customers forecasting gigabit applications in their future. If such applications are in the immediate or near future, then consider higher ratios.

Install Enough Fiber

It is important to install enough fiber to support the present and future applications that will simultaneously share the cable segment. Take into account the type and number of fibers that each application requires and add in spare capacity for future proofing. Generally, LAN applications each require two fibers, while video applications will require one or two fibers depending on whether they are unidirectional or bi-directional. (Video links that use bi-directional communications include those that return video, audio, camera control or data signals.) Add in at least 50% spare capacity and round the fiber-count upward to the next standard size.

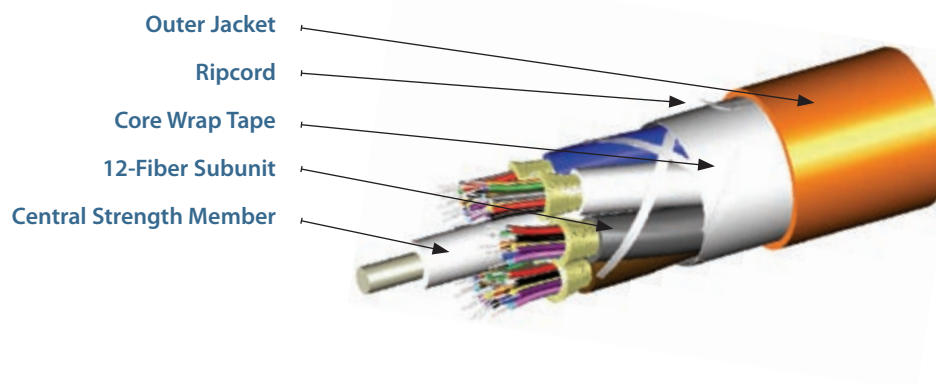
Cable Constructions

Indoor Premise Building Cables (Single-Unit 52XX Series)



Fiber
Reference

Indoor Premise Building Cables (Multi-Unit 53XX Series)



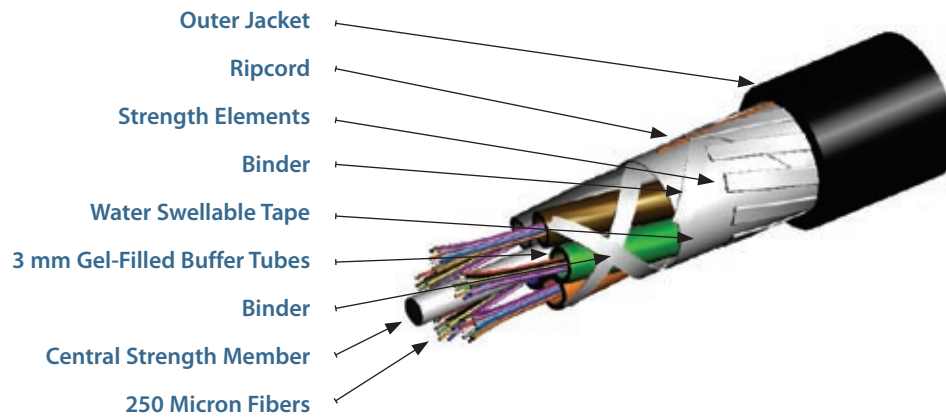
12-Fiber Subunit
Outer Diameter = 6.0 mm (0.24 in)



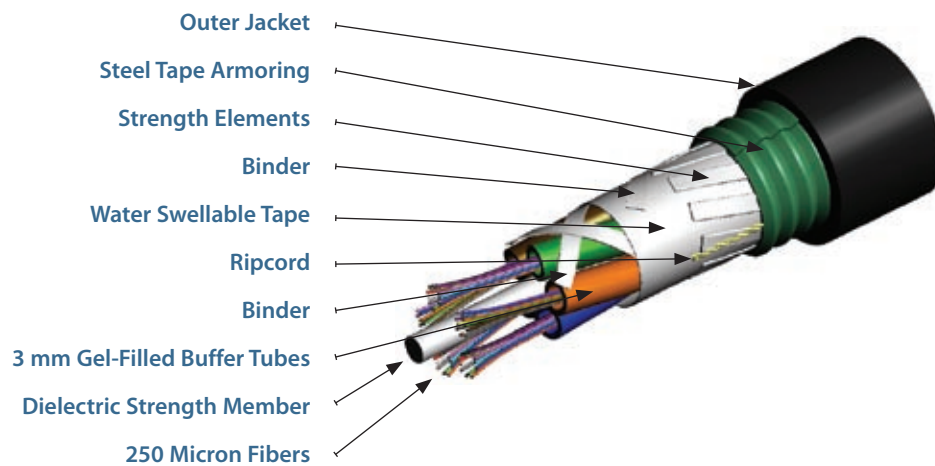
6-Fiber Subunit
Outer Diameter = 5.2 mm (0.20 in)



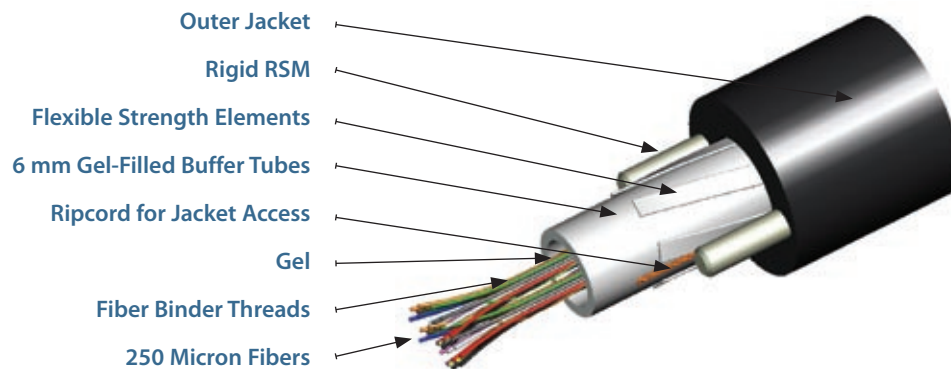
Outdoor Stranded Loose Tube Cables (Dielectric 5024 Series)



Outdoor Stranded Loose Tube Cables (Metallic 5023 Series)

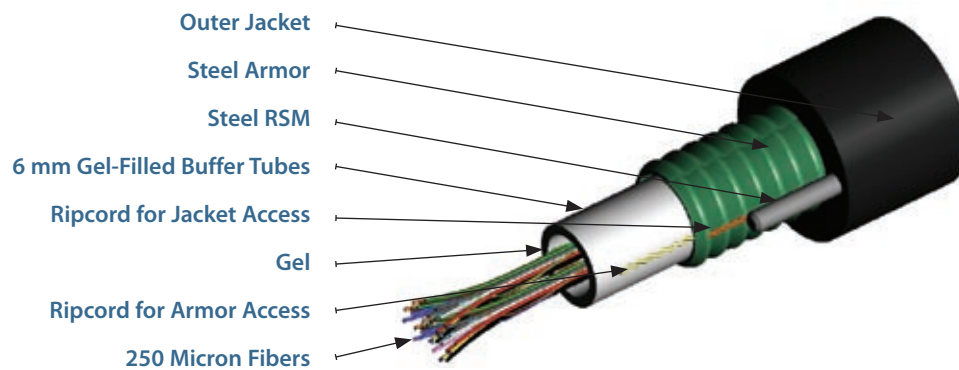


Outdoor Central Tube Cables (Dielectric 5022 Series)



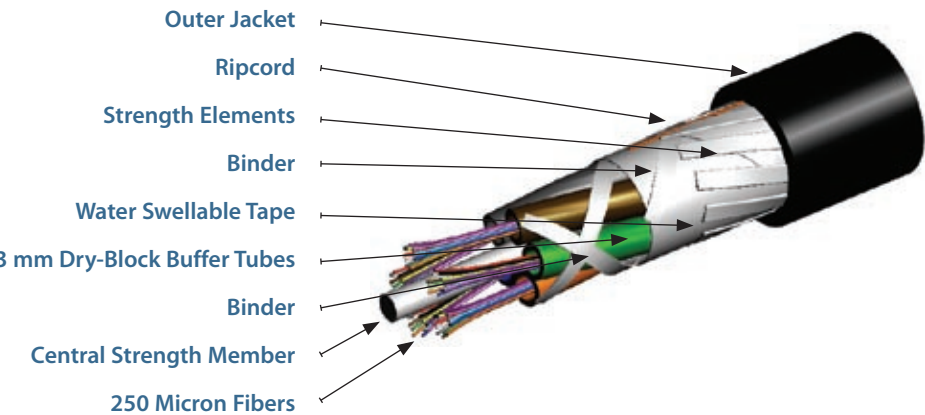
Fiber
Reference

Outdoor Central Tube Cables (Metallic 5021 Series)

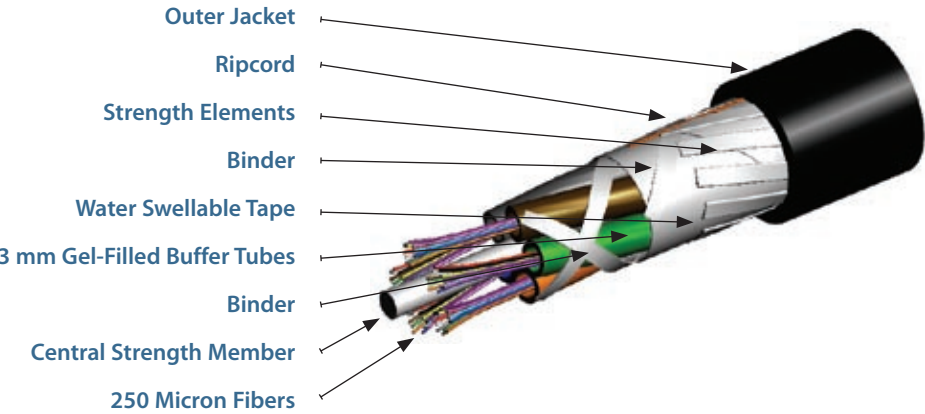




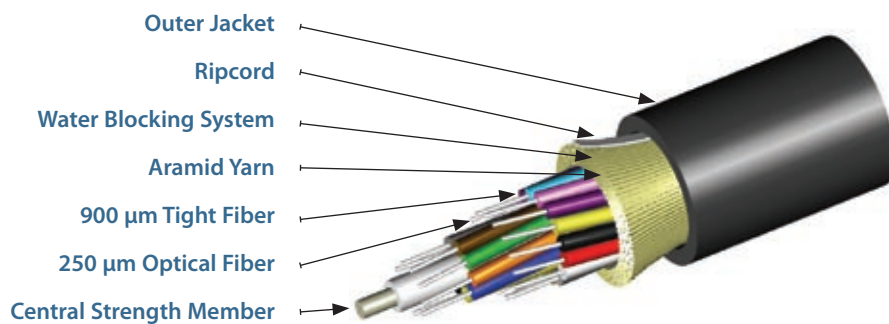
Indoor/Outdoor Stranded Loose Tube Cables (Plenum 5125 Series)



Indoor/Outdoor Stranded Loose Tube Cables (Riser 5124 Series)

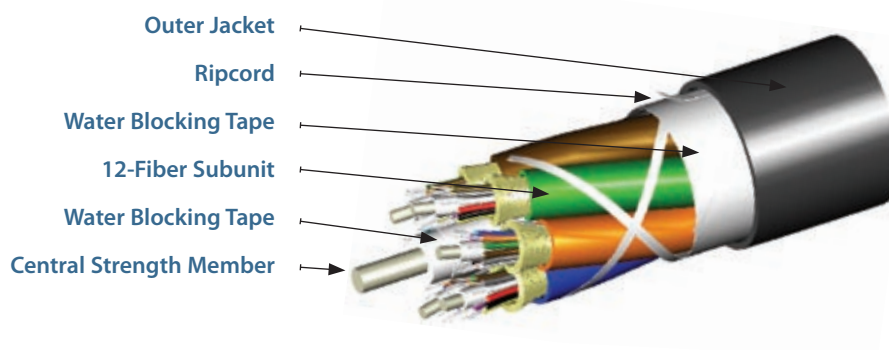


Indoor/Outdoor Tight Buffered Cables (Single Unit 5100, 5101, 5102 Series)



Fiber
Reference

Indoor/Outdoor Tight Buffered Cables (Multi-Unit 5103, 5104, 5105 Series)



12-Fiber Subunit
Outer Diameter = 7.2 mm (0.28 in)

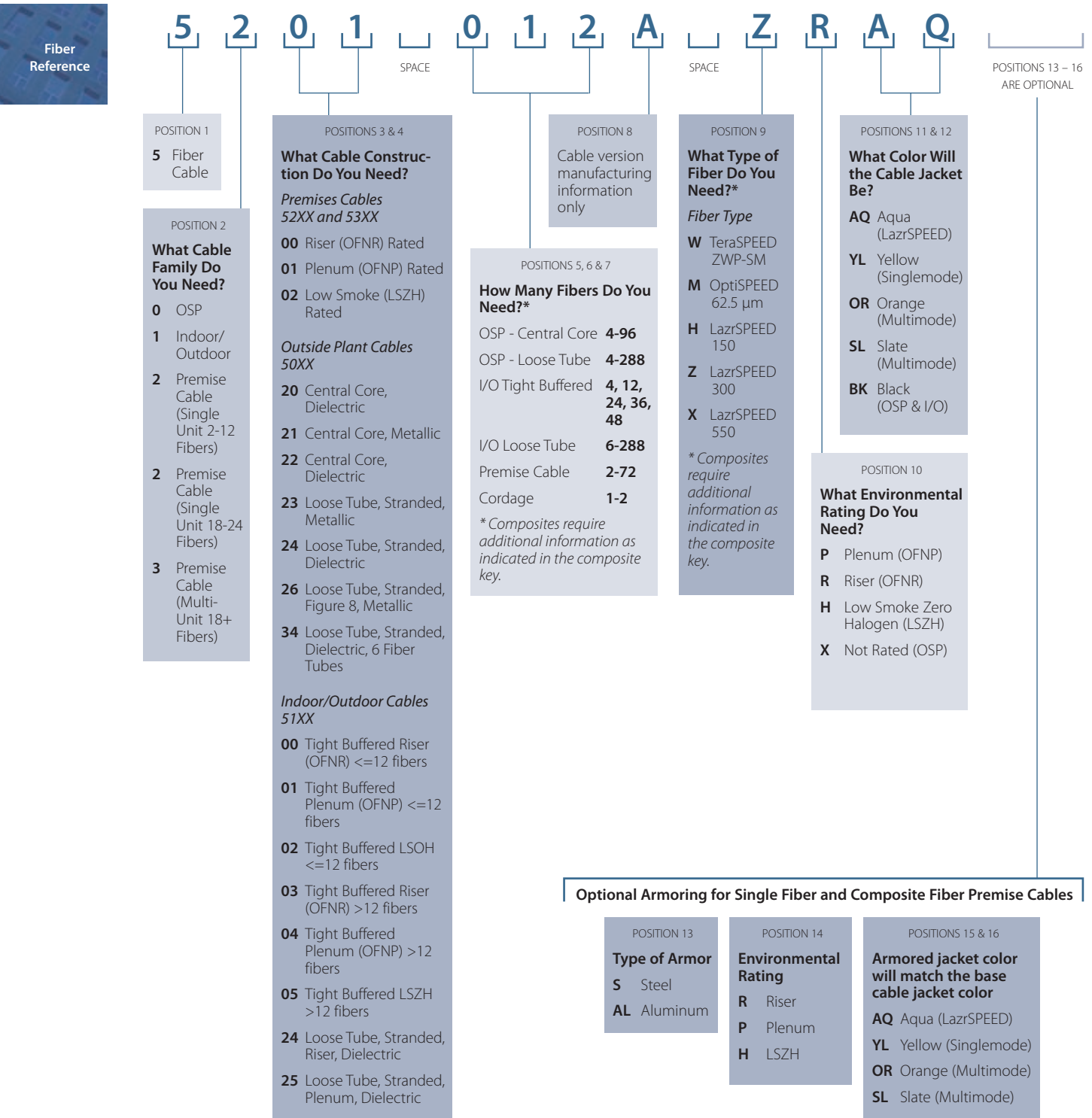


6-Fiber Subunit
Outer Diameter = 5.5 mm (0.22 in)

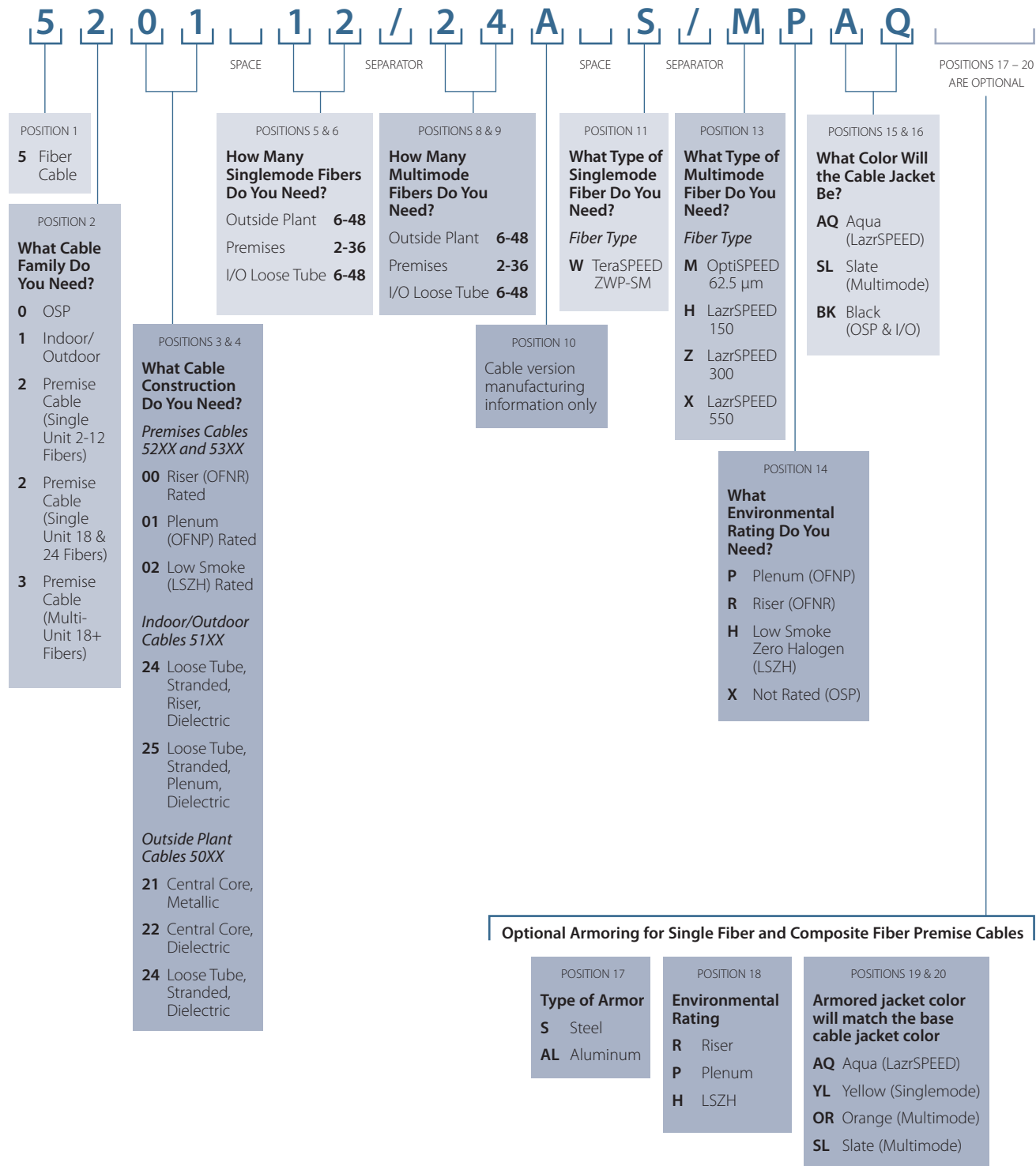


Cable Order Process

Single Unit and Multi-Unit Fiber Optic Cables



Composite Cables



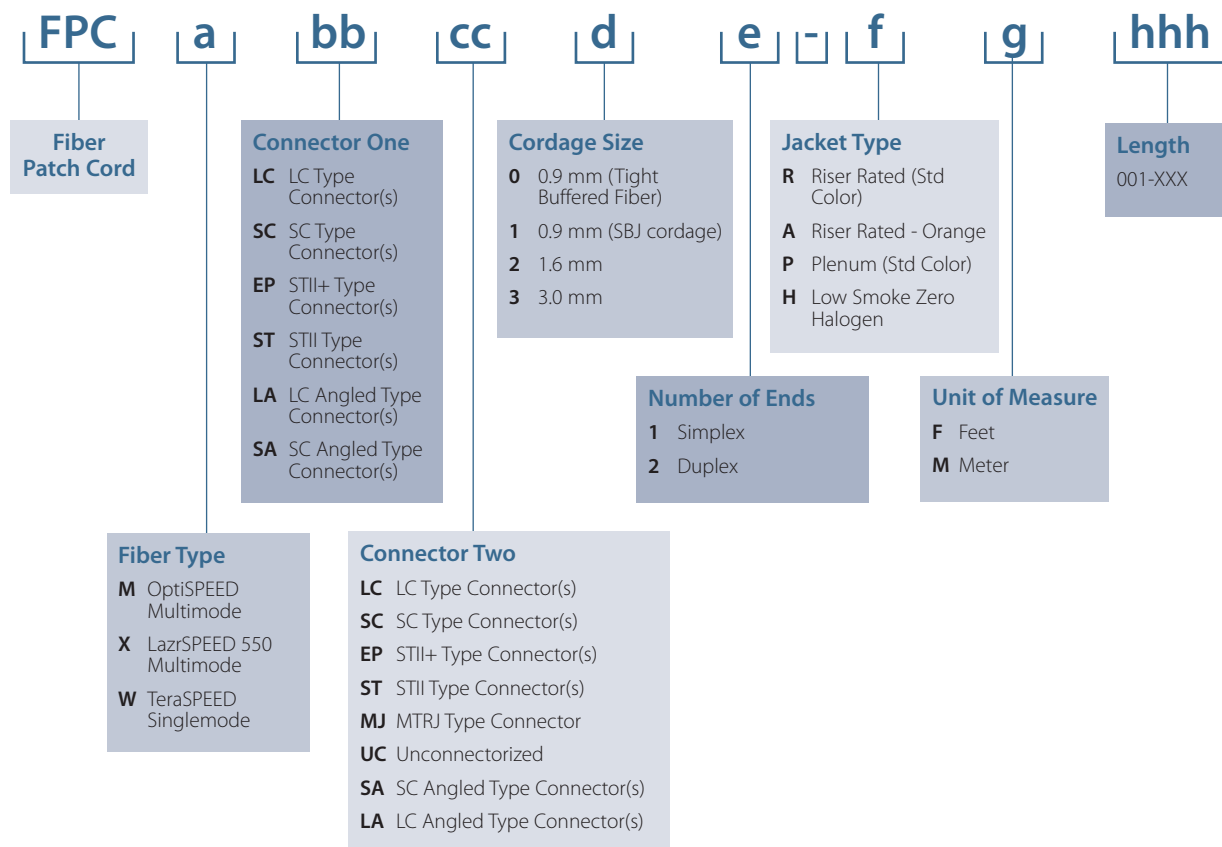
Fiber Patch Cord Product Identifier

Simplex and Duplex Fiber Patch Cords

Cord Order Process

The **Fiber Patch Cord Product Identifier** provides for a flexible ordering system. The various patch cords are orderable with a 16-character feature configuration coding system. It allows for many different combinations of plug ends, cordage types, colors and lengths. However, as this product guide is global, regional portfolios differ. To confirm your region's offering, please contact your account representative or BusinessPartner.

Fiber
Reference



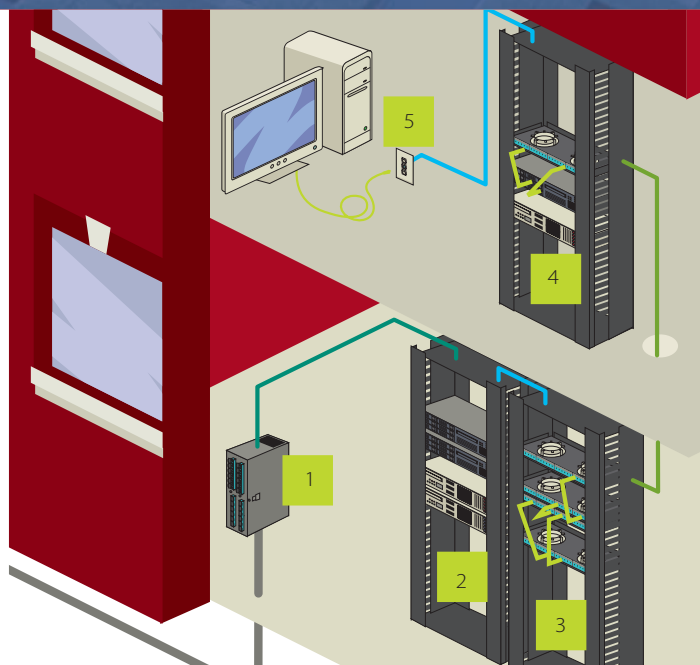
Example:

The FPC Code for LazrSPEED LC to LC Duplex Plenum 7-foot Patch Cord is: FPCXLCLC22-PF007

LazrSPEED® Solution Laser Optimized Multimode

- 1 Fiber optic LIU/489 FIU
 - 2 Racks and cabinets
 - 3 Equipment room:
-600 G2 modular shelf and panel shelf
-1000 G2 modular shelf and panel shelf
 - 4 Telecom closet:
-600 G2 modular shelf and panel shelf
-1000 G2 modular shelf and panel shelf
 - 5 Faceplate/multimedia information outlet
- LazrSPEED outside plant cable
 - LazrSPEED indoor/outdoor cable
 - LazrSPEED indoor cable
 - LazrSPEED patch cord
 - LazrSPEED riser cable

LazrSPEED Solution



Fiber Types

LazrSPEED fiber is the perfect choice for new installations because it has been designed to support 10 Gbps up to 550 meter distances. This fully supports the vast majority of in-building distance requirements. LazrSPEED Solution is flexible and supports all the current LANs from 10 Mbps to 1 Gbps. Gigabit ethernet is supported up to over 1 kilometer for 1000BASE-SX. A future upgrade to 10 Gbps can be easily accomplished by simply plugging in short wavelength (850 nm) 10 Gbps electronics in to the existing LazrSPEED channels up to 550 meters depending on LazrSPEED fiber type. LazrSPEED Solution also enables dual speed 1 Gbps/10 Gbps ports, which allow less disruptive incremental upgrades of switches and servers. LazrSPEED Solution supports very high speed data transmission by controlling differential mode delay (DMD) that results when light rays travelling along the various pathways (modes) arrive at the detector at different times. DMD can cause an optical signal to be detected as several different signals.

With the lowest multimode optical channel loss available and the breakthrough bandwidth performance, a LazrSPEED LC solution easily meets the gigabit ethernet standard and sets the pace for 10 Gbps support. This channel loss performance (0.17dB average loss for LC connections, 3.0 dB/km loss for cables at 850 nm) and bandwidth performance enables cost-effective 10 Gbps networks as well as increased network reliability for gigabit applications. It is available in three versions:

LazrSPEED 550

- Meets and exceeds the next generation multimode fiber (OM3) specifications in standards
- Over 4,700 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 550 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Support 1 Gbps ethernet up to 1.1 km
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED 300

- Meets and exceeds the next generation multimode fiber (OM3) specifications in standards
- Over 2,000 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 300 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Support 1 Gbps ethernet up to 1 km
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED 150

- Meets and exceeds the multimode fiber (OM2) specifications in standards
- Over 950 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 150 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 800 meters
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED products include:

- Building Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC Connectors (SC or ST II+ Connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

Fiber Types

LazrSPEED® Specifications

LazrSPEED 550/300/150

Laser Optimized 50 Micron Multimode Fiber

Physical Characteristics

Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Core/Clad Offset	≤ 1.5 µm
Coating Diameter (Uncolored)	245 ± 10 µm
Coating Diameter (Colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, max.	6 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, max. (100 turns @ 75 mm mandrel)	0.50 dB max. @ 850 nm and 1300 nm

Fiber Types

Optical Characteristics, Wavelength Specific

	850 nm	1300 nm
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.0 dB/km	1.0 dB/km
Bandwidth, OFL	550: 3,500 MHz-km 300: 1,500 MHz-km 150: 700 MHz-km	500 MHz-km 500 MHz-km 500 MHz-km
Bandwidth, Laser	550: 4,700 MHz-km 300: 2,000 MHz-km 150: 950 MHz-km	500 MHz-km 500 MHz-km 500 MHz-km
Differential Mode Delay	550: Exceeds TIA-492AAAC-A (IEC-60793-2-10ed2) 300: Exceeds TIA-492AAAC-A (IEC-60793-2-10ed2) 150: 0.70 ps/m	0.88 ps/m 0.88 ps/m 0.88 ps/m
1 Gbps Ethernet Distance	550: 1,100 m 300: 1,000 m 150: 800 m	600 m 600 m 600 m
10 Gbps Ethernet Distance	550: 550 m 300: 300 m 150: 150 m	

Optical Characteristics, General

Numerical Aperture	0.200 ± 0.015
Point Defects, Max.	0.15 dB
Zero Dispersion Wavelength	1297-1316 nm
Zero Dispersion Slope	0.105 ps/[km-nm-nm]

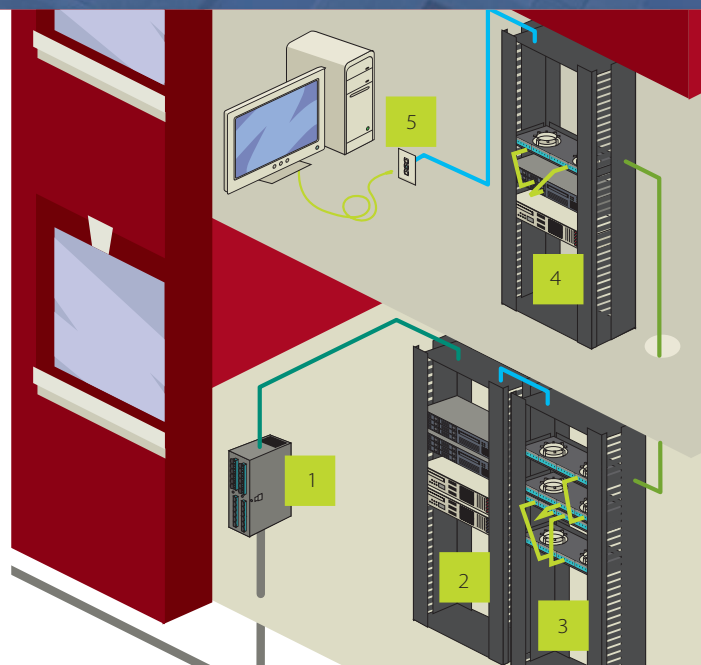
Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.10 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.10 dB
Water Immersion, 73.4°F (23°C)	≤ 0.20 dB
Heat Aging, 185°F (85°C)	≤ 0.20 dB

TeraSPEED™ Solution Zero Water Peak Singlemode

- 1 Fiber optic LIU/489 FIU
 - 2 Racks and cabinets
 - 3 Equipment room:
-600 G2 modular shelf and panel shelf
-1000 G2 modular shelf and panel shelf
 - 4 Telecom closet:
-600 G2 modular shelf and panel shelf
-1000 G2 modular shelf and panel shelf
 - 5 Faceplate/multimedia information outlet
- TeraSPEED outside plant cable
— TeraSPEED indoor/outdoor cable
— TeraSPEED indoor cable
— TeraSPEED patch cord
— TeraSPEED riser cable

TeraSPEED Solution



Features and Benefits:

- Zero water peak singlemode fiber
- G.652.C/D compliant
- Lowest loss fiber available at 1,383 nm E-band
- Supports legacy singlemode equipment and applications
- 60% more usable wavelengths
- Maximizes support for lowest cost CWDM technology and delivers lowest cost path to future singlemode applications
- Lowest loss small form factor connector available in the industry - LC Connector

SYSTIMAX TeraSPEED Solution was developed to provide a fiber optic solution that is the Metro/Campus backbone for both today's performance requirements. TeraSPEED cables provide the widest possible usable wavelength spectrum by eliminating the high loss caused by water impurities in the 1,400 nm region. With this 'water peak' eliminated, the entire spectrum from 1,260 nm to 1,620 nm is available, allowing for future expansion of data rates and additional services by the use of cost-effective coarse wavelength division multi-plexing (CWDM).

In addition to LC connectors, TeraSPEED Solution supports the duplex SC connector as well as the ST II+ connector. An extensive line of wall and rack mounted cabinets and telecommunication outlets for building entrance facilities, equipment rooms, telephone closets/floor distributors and work areas are available.

SYSTIMAX channels comprised exclusively of TeraSPEED singlemode passive products, end-to-end, are capable of delivering in excess of 10 Gigabit per second in accordance with application standards.

TeraSPEED products include:

- Building Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC Connectors (SC or ST II+ connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

TeraSPEED™ Specifications

TeraSPEED Optical Fiber

Dispersion-Unshifted, Matched-Clad Singlemode Fiber

Physical Characteristics

Cladding Diameter	125.0 ± 0.7 µm
Core/Clad Offset	≤ 0.5 µm
Coating Diameter (Uncolored)	245 ± 10 µm
Coating Diameter (Colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, Max.	12 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 4 m
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, Max. (100 turns)	0.05 dB (1,310/1,550 nm @ 50 mm) 0.05 dB (1,625 nm @ 60 mm)
Macrobending, Max. (1 turn @ 32 mm mandrel)	0.05 dB @ 1,550 nm

Fiber Types

Optical Characteristics, Wavelength Specific

	1310 nm	1385 nm	1550 nm
Max. Attenuation, Loose Tube Cable	0.34 dB/km	0.31 dB/km	0.22 dB/km
Max. Attenuation, Tight Buffer Cable	0.70 dB/km	0.70 dB/km	0.70 dB/km
Mode Field Diameter	9.2 ± 0.3 µm	9.6 ± 0.6 µm	10.4 ± 0.5 µm
Group Refractive Index	1.466	1.466	1.467
Dispersion, Max.	3.5 ps/(nm-km) from 1,285 to 1,330 nm		18 ps/(nm-km)

Optical Characteristics, General

Point Defects, Max.	0.10 dB
Cut-off Wavelength	≤ 1260
Zero Dispersion Wavelength	1,302-1,322 nm
Zero Dispersion Slope, Max.	0.090 ps/[km-nm-nm]
Polarization Mode Dispersion	≤ 0.06 ps/sqrt (km)
Link Design Value	

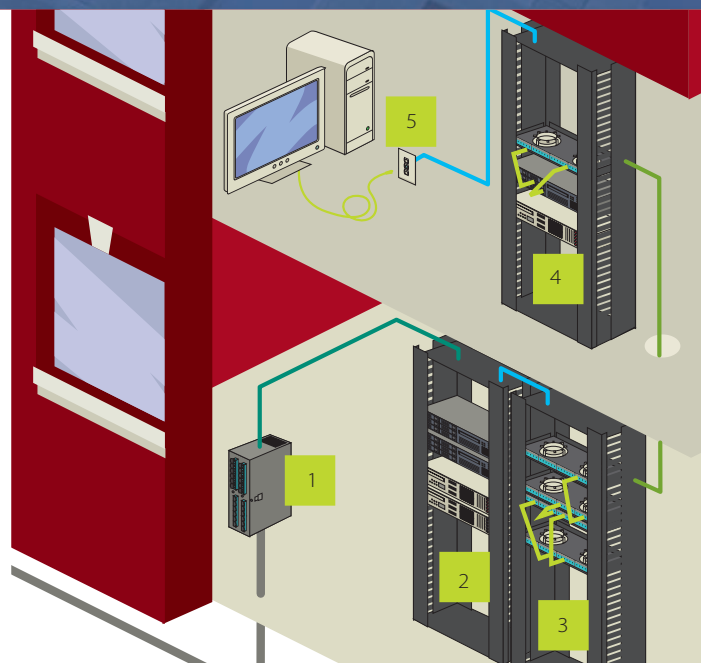
Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.05 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.05 dB
Water Immersion, 73.4°F (23°C)	≤ 0.05 dB
Heat Aging, 185°F (85°C)	≤ 0.05 dB

OptiSPEED® Solution Multimode

- 1 Fiber optic LIU/489 FIU
 - 2 Racks and cabinets
 - 3 Equipment room:
 - 600 G2 modular shelf and panel shelf
 - 1000 G2 modular shelf and panel shelf
 - 4 Telecom closet:
 - 600 G2 modular shelf and panel shelf
 - 1000 G2 modular shelf and panel shelf
 - 5 Faceplate/multimedia information outlet
- OptiSPEED outside plant cable
 - OptiSPEED indoor/outdoor cable
 - OptiSPEED indoor cable
 - OptiSPEED patch cord
 - OptiSPEED riser cable

OptiSPEED Solution



Features and Benefits:

- Standard multimode fiber
- Lowest multimode fiber channel loss available, up to 50% less than other systems
- Lowest loss small form factor connector available in the industry - LC connector

SYSTIMAX OptiSPEED Solution was developed to provide a fiber optic solution that is the backbone for today's performance requirements. 62.5 micron multimode fiber provides high speed links to support signal transmission up to the TIA standard of 300 meters within a building and up to 2,000 meters or 2 kilometers within a campus for many of today's legacy LAN's.

The OptiSPEED channel, including the low loss LC connector, supports the 1000BASE-SX Gbps ethernet LAN, up to 300 meters with 6 LC connections. OptiSPEED Solution supports up to 600 meter for 1000BASE-LX, Gbps ethernet LAN applications. In addition, OptiSPEED Solution supports 10 Gbps ethernet using CWDM 1,300 nm lasers to 300 meters.

In addition to LC connectors, OptiSPEED Solution supports the duplex SC connector as well as the ST II+ connector although over restricted applications and number of connections. The LC is a small form factor connector that allows two LC connectors to fit in the space of a traditional connector such as the SC or ST II+. An extensive line of wall and rack mounted cabinets and telecommunication outlets for building entrance facilities, equipment rooms, telephone closets/floor distributors and work areas are available.

SYSTIMAX channels comprised exclusively of OptiSPEED multimode passive products, end-to-end, are capable of delivering up to 10 Gbps in accordance with application standards.

OptiSPEED products include:

- Building Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC connectors (SC or ST II+ connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

OptiSPEED® Specifications

OptiSPEED Optical Fiber

62.5 Micron, Multimode Fiber

Physical Characteristics

Core Diameter	62.5 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Core/Clad Offset	≤ 1.5 µm
Coating Diameter (Uncolored)	245 ± 10 µm
Coating Diameter (Colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, Max.	6 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, Max. (100 turns @ 75 mm mandrel)	0.50 dB max. @ 850 nm and 1,300 nm

Fiber Types

Optical Characteristics, Wavelength Specific

	850 nm	1,300 nm
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.4 dB/km	1.0 dB/km
Bandwidth, OFL	200 MHz-km	500 MHz-km
Group Refractive Index	1.496	1.491
1 Gb Ethernet Distance	300 m	550 m

Optical Characteristics, General

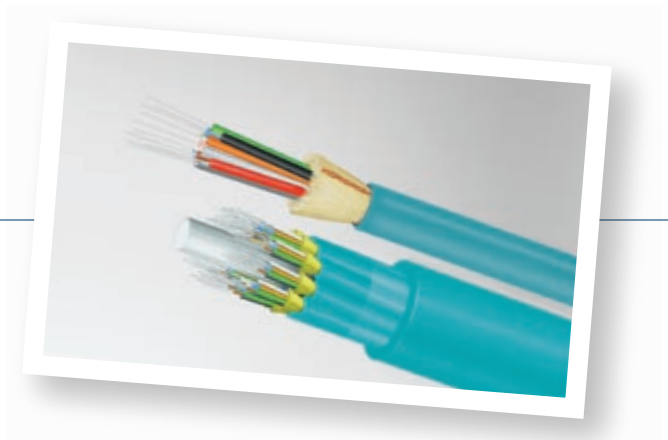
Numerical Aperature	0.275 ± 0.015
Point Defects, Max.	0.15 dB
Zero Dispersion Wavelength	1,320-1,365 nm
Zero Dispersion Slope	0.097 ps/[km-nm-nm]

Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.20 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.20 dB
Water Immersion, 73.4°F (23°C)	≤ 0.20 dB
Heat Aging, 185°F (85°C)	≤ 0.20 dB

Building Cables

The LazrSPEED Building Cables consist of laser-optimized 50/125 µm optical fibers. All LazrSPEED fibers are Differential mode Delay (DMD) tested. The SYSTIMAX Labs use a high-resolution DMD test bench that exceeds the FOTP-220 standards and is independently certified by UL.



The LazrSPEED building cable is constructed with tight buffer fibers, aramid-strength yarn, and is available in PVC, Plenum and Low Smoke Zero Halogen outer jacket. These cables are designed for point-to-point applications as well as mid-span access, and provide a high-level of protection for fiber installed in the building environment.

- The Plenum cable is (UL and cUL) TYPE OFNP
- The Riser cable is (UL and cUL) TYPE OFNR
- The LSZH cable is (UL and cUL) TYPE OFNR, OFN-LS, IEC60332-3C and IEC61034-2 compliant

Environmental and Mechanical Specifications:

Operating Temperature: -4°F to 158°F (-20°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: 32°F to 158°F (0°C to 70°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Crush Resistance: 57.3 lbf/in (10 N/mm) (Test Method: FOTP – 41)

Impact Resistance: 4.34 lbf-ft (5.8 N-m) (Test Method: FOTP – 25)

Flexing: Exceeds 100 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Core size: 50 micron (Fibers are identified with standard color coding.)

LazrSPEED 550 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 0DZA XPAQ	2	Single Unit	0.15 in (3.9 mm)	8.8 lbs/kft (13.1 kg/km)	760057034
5201 006A XPAQ	6	Single Unit	0.19 in (4.8 mm)	15.1 lbs/kft (22 kg/km)	760012138
5201 012A XPAQ	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	760006411
5201 024A XPAQ	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018697
5301 024A XPAQ	24	Multi-unit	0.52 in (13.1 mm)	108.1 lbs/kft (161 kg/km)	760012146
5301 036A XPAQ	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	760024547
5301 048A XPAQ	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760024554
5301 072A XPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760024562
5301 096A XPAQ	96	Multi-unit	0.90 in (23.0 mm)	360.8 lbs/kft (537 kg/km)	760021691
5301 144A XPAQ	144	Multi-unit	0.95 in (24.1 mm)	330.8 lbs/kft (492 kg/km)	760024869

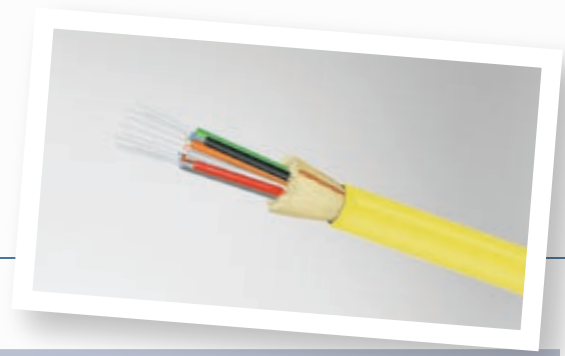
LazrSPEED 300 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 002A ZPAQ	2	Single Unit	0.15 in (3.9 mm)	8.8 lbs/kft (13.1 kg/km)	700009855
5201 004A ZPAQ	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	700009814
5201 006A ZPAQ	6	Single Unit	0.19 in (4.8 mm)	15.1 lbs/kft (22 kg/km)	700009772
5201 008A ZPAQ	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760008508
5201 012A ZPAQ	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	700009731
5201 018A ZPAQ	18	Single Unit	0.31 in (7.9 mm)	40.9 lbs/kft (61 kg/km)	760042556
5201 024A ZPAQ	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018689
5301 024A ZPAQ	24	Multi-unit	0.52 in (13.1 mm)	108.1 lbs/kft (161 kg/km)	700009699
5301 036A ZPAQ	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	700009673
5301 048A ZPAQ	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	700211147
5301 072A ZPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	700211154
5301 096A ZPAQ	96	Multi-unit	0.90 in (23.0 mm)	360.8 lbs/kft (537 kg/km)	760010132
5301 144A ZPAQ	144	Multi-unit	0.95 in (24.1 mm)	330.8 lbs/kft (492 kg/km)	760018879

LazrSPEED 150 Plenum

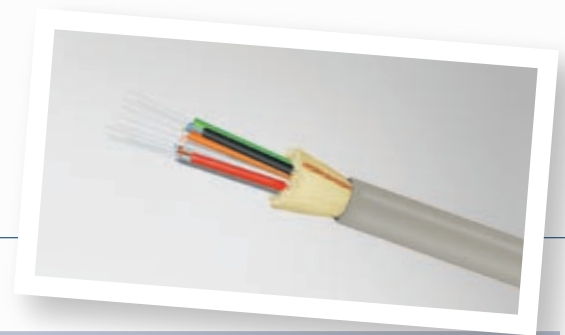
Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 002A HPAQ	2	Single Unit	0.15 in (3.9 mm)	8.8 lbs/kft (13.1 kg/km)	700009871
5201 004A HPAQ	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	700009830
5201 006A HPAQ	6	Single Unit	0.19 in (4.8 mm)	15.1 lbs/kft (22 kg/km)	700009798
5201 008A HPAQ	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760008698
5201 012A HPAQ	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	700009756
5201 024A HPAQ	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018671
5301 024A HPAQ	24	Multi-unit	0.52 in (13.1 mm)	108.1 lbs/kft (161 kg/km)	700009715
5301 036A HPAQ	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	700205586
5301 048A HPAQ	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	700211105
5301 072A HPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	700211113
5301 096A HPAQ	96	Multi-unit	0.90 in (23.0 mm)	360.8 lbs/kft (537 kg/km)	760019620
5301 144A HPAQ	144	Multi-unit	0.95 in (24.1 mm)	330.8 lbs/kft (492 kg/km)	760024836

Building



TeraSPEED Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 002A WPYL	2	Single Unit	0.15 in (3.9 mm)	8.8 lbs/kft (13.1 kg/km)	760004317
5201 004A WPYL	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	760004325
5201 006A WPYL	6	Single Unit	0.19 in (4.8 mm)	15.1 lbs/kft (22 kg/km)	760004333
5201 008A WPYL	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760004341
5201 012A WPYL	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	760004358
5201 024A WPYL	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018630
5301 036A WPYL	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	760004374
5301 048A WPYL	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760004382
5301 072A WPYL	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760004390
5301 096A WPYL	96	Multi-unit	0.90 in (23.0 mm)	360.8 lbs/kft (537 kg/km)	760018051
5301 144A WPYL	144	Multi-unit	0.95 in (24.1 mm)	330.8 lbs/kft (492 kg/km)	760018895



OptiSPEED Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Color	Material ID
5201 002A MP SL	2	Single Unit	0.15 in (3.9 mm)	8.8 lbs/kft (13.1 kg/km)	Slate	700009657
5201 004A MP SL	4	Single Unit	0.17 in (4.4 mm)	1.22 lbs/kft (18 kg/km)	Slate	700009582
5201 006A MP SL	6	Single Unit	0.19 in (4.8 mm)	1.51 lbs/kft (22 kg/km)	Slate	700009517
5201 008A MP SL	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	Slate	700009442
5201 012A MP SL	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	Slate	700009392
5201 018A MP SL	18	Single Unit	0.31 in (7.9 mm)	40.9 lbs/kft (61 kg/km)	Slate	760018648
5201 024A MP SL	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	Slate	760018663
5301 018A MP SL	18	Multi-unit	0.45 in (11.4 mm)	82.5 lb/kft (123 kg/km)	Slate	700009319
5301 024A MP SL	24	Multi-unit	0.52 in (13.1 mm)	108.1 lb/kft (161 kg/km)	Slate	700009277
5301 036A MP SL	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	Slate	700009186
5301 048A MP SL	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	Slate	700009095
5301 072A MP SL	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	Slate	700009004
5301 144A MP SL	144	Multi-unit	0.95 in (24.1 mm)	330.8 lbs/kft (492 kg/km)	Slate	760032821
5201 002A MP OR	2	Single Unit	0.15 in (3.9 mm)	8.8 lbs/kft (13.1 kg/km)	Orange	700009665
5201 004A MP OR	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	Orange	700009590
5201 006A MP OR	6	Single Unit	0.19 in (4.8 mm)	15.1 lbs/kft (22 kg/km)	Orange	700009525
5201 012A MP OR	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	Orange	700009400
5201 024A MP OR	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	Orange	760018655
5301 024A MP OR	24	Multi-unit	0.52 in (13.1 mm)	108.1 lb/kft (161 kg/km)	Orange	700009285
5301 096A MP OR	96	Multi-unit	0.90 in (23.0 mm)	360.8 lb/kft (537 kg/km)	Orange	760048231
5201 004A MP WH	4	Single Unit	0.17 in (4.4 mm)	12.2 lb/kft (18 kg/km)	White	760053124

LazrSPEED 550 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 006A XRAQ	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	760012104
5200 012A XRAQ	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	760012112
5200 024A XRAQ	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	760018564
5300 024A XRAQ	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	760012120
5300 036A XRAQ	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	760026831
5300 048A XRAQ	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	760026849
5300 072A XRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	760026856
5300 096A XRAQ	96	Multi-unit	0.93 in (23.7 mm)	337.2 lbs/kft (502 kg/km)	760026864
5300 144A XRAQ	144	Multi-unit	1.03 in (26.1 mm)	350.5 lbs/kft (522 kg/km)	760026872

LazrSPEED 300 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A ZRAQ	2	Single Unit	0.16 in (4.1 mm)	10.6 lbs/kft (15.8 kg/km)	700208127
5200 004A ZRAQ	4	Single Unit	0.19 in (4.8 mm)	15 lbs/kft (22.3 kg/km)	700208135
5200 006A ZRAQ	6	Single Unit	0.20 in (5.1 mm)	16 lbs/kft (23.8 kg/km)	700208143
5200 008A ZRAQ	8	Single Unit	0.22 in (5.5 mm)	17 lbs/kft (26 kg/km)	760008516
5200 012A ZRAQ	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	700208150
5200 024A ZRAQ	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	760018556
5300 024A ZRAQ	24	Multi-unit	0.56 in (14.1 mm)	49 lbs/kft (72.9 kg/km)	700208168
5300 036A ZRAQ	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	700208176
5300 048A ZRAQ	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	700208218
5300 072A ZRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	700208226
5300 096A ZRAQ	96	Multi-unit	0.93 in (23.7 mm)	337.2 lbs/kft (502 kg/km)	760047860
5300 144A ZRAQ	144	Multi-unit	1.03 in (26.1 mm)	350.5 lbs/kft (522 kg/km)	760018861

LazrSPEED 150 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A HRAQ	2	Single Unit	0.16 in (4.1 mm)	8.6 lbs/kft (12.9 kg/km)	700203052
5200 004A HRAQ	4	Single Unit	0.19 in (4.8 mm)	13.1 lbs/kft (19 kg/km)	700203060
5200 006A HRAQ	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	700203078
5200 008A HRAQ	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	760008706
5200 012A HRAQ	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	700203086
5200 024A HRAQ	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	760018549
5300 036A HRAQ	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	700203102
5300 048A HRAQ	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	700203110
5300 072A HRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	700203128
5300 096A HRAQ	96	Multi-unit	0.93 in (23.7 mm)	337.2 lbs/kft (502 kg/km)	760026310
5300 144A HRAQ	144	Multi-unit	1.03 in (26.1 mm)	350.5 lbs/kft (522 kg/km)	760024810

Building

TeraSPEED Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A WRYL	2	Single Unit	0.16 in (4.1 mm)	8.6 lbs/kft (12.9 kg/km)	760004408
5200 004A WRYL	4	Single Unit	0.19 in (4.8 mm)	13.1 lbs/kft (19 kg/km)	760004416
5200 006A WRYL	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	760004424
5200 006A WRYL	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	760048850
5200 008A WRYL	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	760004432
5200 012A WRYL	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	760004440
5200 024A WRYL	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	760018515
5300 024A WRYL	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	760004457
5300 036A WRYL	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	760004465
5300 048A WRYL	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	760004473
5300 072A WRYL	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	760004481
5300 096A WRYL	96	Multi-unit	0.93 in (23.7 mm)	337.2 lbs/kft (502 kg/km)	760026823
5300 144A WRYL	144	Multi-unit	1.03 in (26.1 mm)	350.5 lbs/kft (522 kg/km)	760018887

OptiSPEED Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Color	Material ID
5200 002A MROR	2	Single Unit	0.16 in (4.1 mm)	8.6 lbs/kft (12.9 kg/km)	Orange	700010184
5200 004A MROR	4	Single Unit	0.19 in (4.8 mm)	13.1 lbs/kft (19.4 kg/km)	Orange	700012172
5200 006A MROR	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	Orange	700010176
5200 008A MROR	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	Orange	700012180
5200 012A MROR	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	Orange	700010168
5200 002A MRSL	2	Single Unit	0.16 in (4.6 mm)	8.6 lbs/kft (12.9 kg/km)	Slate	700009640
5200 004A MRSL	4	Single Unit	0.19 in (4.8 mm)	13.1 lbs/kft (19.4 kg/km)	Slate	700009574
5200 006A MRSL	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	Slate	700009509
5200 008A MRSL	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	Slate	700009434
5200 012A MRSL	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	Slate	700009384
5200 018A MRSL	18	Single Unit	0.30 in (7.7 mm)	32.1 lbs/kft (48 kg/km)	Slate	760018523
5200 024A MRSL	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	Slate	760018531
5300 018A MRSL	18	Multi-unit	0.48 in (12.3 mm)	99.8 lbs/kft (148 kg/km)	Slate	700009301
5300 036A MRSL	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	Slate	700009178
5300 048A MRSL	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	Slate	700009087
5300 072A MRSL	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	Slate	700008998
5300 024A MRSL	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	Slate	700009269
5300 144A MRSL	144	Multi-unit	1.03 in (26.1 mm)	350.5 lbs/kft (522 kg/km)	Slate	760055046

LazrSPEED 550 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 006A XHAQ	6	Single Unit	0.20 in (5.2 mm)	16.4 lbs/kft (24 kg/km)	760012153
5202 012A XHAQ	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	760012161
5302 024A XHAQ	24	Multi-unit	0.56 in (14.2 mm)	116.6 lbs/kft (174 kg/km)	760012179

LazrSPEED 300 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 002A ZHAQ	2	Single Unit	0.15 in (3.9 mm)	7.82 lbs/kft (11.6 kg/km)	700009863
5202 004A ZHAQ	4	Single Unit	0.19 in (4.8 mm)	14.3 lbs/kft (21 kg/km)	700009822
5202 006A ZHAQ	6	Single Unit	0.20 in (5.2 mm)	16.4 lbs/kft (24 kg/km)	700009780
5202 008A ZHAQ	8	Single Unit	0.22 in (5.5 mm)	19.1 lbs/kft (28 kg/km)	760026336
5202 012A ZHAQ	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	700009749
5302 024A ZHAQ	24	Multi-unit	0.56 in (14.2 mm)	116.6 lbs/kft (174 kg/km)	700009707
5302 036A ZHAQ	36	Multi-unit	0.59 in (14.9 mm)	118.5 lbs/kft (176 kg/km)	700009681
5302 048A ZHAQ	48	Multi-unit	0.65 in (16.4 mm)	150.3 lbs/kft (224 kg/km)	700211121
5302 072A ZHAQ	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	700211139

LazrSPEED 150 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 002A HHAQ	2	Single Unit	0.15 in (3.9 mm)	7.82 lbs/kft (11.6 kg/km)	700009889
5202 004A HHAQ	4	Single Unit	0.19 in (4.8 mm)	14.3 lbs/kft (21 kg/km)	700009848
5202 006A HHAQ	6	Single Unit	0.20 in (5.2 mm)	16.4 lbs/kft (24 kg/km)	700009806
5202 012A HHAQ	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	700009764
5302 024A HHAQ	24	Multi-unit	0.56 in (14.2 mm)	116.6 lbs/kft (174 kg/km)	700009723
5302 036A HHAQ	36	Multi-unit	0.59 in (14.9 mm)	118.5 lbs/kft (176 kg/km)	700229511
5302 048A HHAQ	48	Multi-unit	0.65 in (16.4 mm)	150.3 lbs/kft (224 kg/km)	700211089
5302 072A HHAQ	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	700211097

TeraSPEED LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 004A WHYL	4	Single Unit	0.19 in (4.8 mm)	14.3 lbs/kft (21 kg/km)	760055038
5202 006A WHYL	6	Single Unit	0.20 in (5.2 mm)	16.4 lbs/kft (24 kg/km)	760004242
5202 008A WHYL	8	Single Unit	0.22 in (5.5 mm)	19.1 lbs/kft (28 kg/km)	760004259
5202 012A WHYL	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	760004267
5302 024A WHYL	24	Multi-unit	0.56 in (14.2 mm)	116.6 lbs/kft (174 kg/km)	760004275
5302 036A WHYL	36	Multi-unit	0.59 in (14.9 mm)	118.5 lbs/kft (176 kg/km)	760004283
5302 048A WHYL	48	Multi-unit	0.65 in (16.4 mm)	150.3 lbs/kft (224 kg/km)	760004291
5302 072A WHYL	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	760004309

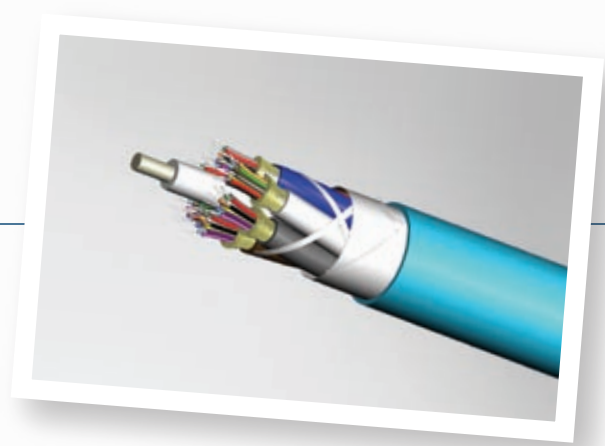
Building

OptiSPEED LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Color	Material ID
5202 002A MHOR	2	Single Unit	0.15 in (3.9 mm)	7.82 lbs/kft (11.6 kg/km)	Orange	700008485
5202 004A MHOR	4	Single Unit	0.19 in (4.8 mm)	14.3 lbs/kft (21 kg/km)	Orange	700008477
5202 006A MHOR	6	Single Unit	0.20 in (5.2 mm)	16.4 lbs/kft (24 kg/km)	Orange	700008469
5202 008A MHOR	8	Single Unit	0.22 in (5.5 mm)	19.1 lbs/kft (28 kg/km)	Orange	700008451
5202 012A MHOR	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	Orange	700008444
5302 024A MHOR	24	Multi-unit	0.56 in (14.2 mm)	116.6 lbs/kft (174 kg/km)	Orange	700009293
5302 036A MHOR	36	Multi-unit	0.59 in (14.9 mm)	118.5 lbs/kft (176 kg/km)	Orange	700009194
5302 048A MHOR	48	Multi-unit	0.65 in (16.4 mm)	150.3 lbs/kft (224 kg/km)	Orange	700009103
5302 072A MHOR	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	Orange	700009012

Building

Composite Building Cable



The SYSTIMAX TeraSPEED/LazrSPEED Composite Fiber Optic cable provides the ultimate in future proofing. This combination of fibers provides the benefits of a Zero Water Peak singlemode, and LazrSPEED 150 or 300 laser Optimized Multimode Fiber (LOMMF), the leading 10 Gbps (OM3) fiber. The incorporation of both singlemode and multimode fibers under one jacket provides not only for seamless future migration should the need arise, but also for improved installation time and decreased installation expense. This composite cable is reinforced with aramid yarn for superior strength.

The SYSTIMAX TeraSPEED/OptiSPEED Composite Fiber Optic cable incorporates the TeraSPEED singlemode fiber with the OptiSPEED multimode fiber, all under one jacket. This provides a cost-effective alternative for those with modest bandwidth requirements today, while allowing a seamless migration to singlemode for future requirements.

This cable complies with the requirements of the National Electrical Code, Article 770-51; ANSI/TIA/EIA 568B.3, "Optical Fiber Cabling Components Standard" and Telcordia Generic Requirements for Premises Fiber Optic Cable (GR-409-CORE), Section 6. It is available with riser, plenum or low smoke zero halogen ratings.

- The Plenum cable is (UL and cUL) TYPE OFNP
- The Riser cable is (UL and cUL) TYPE OFNR
- The LSZH cable is (UL and cUL) TYPE OFNR, OFN-LS, IEC60332-3C and IEC61034-2 compliant

Environmental and Mechanical Specifications:

Operating Temperature: -4°F to 158°F (-20°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: 32°F to 158°F (0°C to 70°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Crush Resistance: 57.3 lbf/in (10 N/mm) (Test Method: FOTP – 41)

Impact Resistance: 4.34 lbf-ft (5.8 N-m) (Test Method: FOTP – 25)

Flexing: Exceeds 100 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Fibers are identified with standard color coding.

TeraSPEED/LazrSPEED 300 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 02/02A W/ZPAQ	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	760008078
5201 02/04A W/ZPAQ	6	Single Unit	0.18 in (4.6 mm)	14.4 lbs/kft (21 kg/km)	760008086
5201 02/06A W/ZPAQ	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760008094
5201 04/04A W/ZPAQ	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760008102
5201 04/08A W/ZPAQ	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	760008110
5201 06/06A W/ZPAQ	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	760008128
5201 06/12A W/ZPAQ	18	Single Unit	0.31 in (7.9 mm)	40.9 lbs/kft (61 kg/km)	760018739
5201 06/18A W/ZPAQ	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018747
5201 12/12A W/ZPAQ	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018754
5301 06/12A W/ZPAQ	18	Multi-unit	0.45 in (11.5 mm)	96.1 lbs/kft (143 kg/km)	760008136
5301 06/18A W/ZPAQ	24	Multi-unit	0.50 in (12.7 mm)	104.5 lbs/kft (155 kg/km)	760008144
5301 12/12A W/ZPAQ	24	Multi-unit	0.50 in (12.7 mm)	104.5 lbs/kft (155 kg/km)	760008151
5301 12/24A W/ZPAQ	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	760008177
5301 12/36A W/ZPAQ	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760008193
5301 24/24A W/ZPAQ	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760008201
5301 12/48A W/ZPAQ	60	Multi-unit	0.68 in (17.2 mm)	190.0 lbs/kft (282 kg/km)	760008219

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5301 24/48A W/ZPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760008227
5301 12/60A W/ZPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760008235
5301 36/36A W/ZPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760008243

TeraSPEED/LazrSPEED 150 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 06/12A W/HPAQ	18	Single Unit	0.31 in (7.9 mm)	40.9 lbs/kft (61 kg/km)	760019158
5301 06/12A W/HPAQ	18	Multi-unit	0.45 in (11.4 mm)	82.5 lbs/kft (123 kg/km)	760018770
5301 24/48A W/HPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760018788

TeraSPEED/LazrSPEED 550 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 06/06A W/XPAQ	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	760057117
5201 06/12A W/XPAQ	18	Single Unit	0.31 in (7.9 mm)	40.9 lbs/kft (61 kg/km)	760065896
5301 24/24A W/XPAQ	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760057109
5301 36/36A W/XPAQ	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760057091

TeraSPEED/LazrSPEED 300 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 02/02A W/ZRAQ	4	Single Unit	0.19 in (4.8 mm)	13.1 lbs/kft (19 kg/km)	760007898
5200 02/04A W/ZRAQ	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	760007906
5200 02/06A W/ZRAQ	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	760007914
5200 04/04A W/ZRAQ	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	760007922
5200 04/08A W/ZRAQ	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	760007930
5200 06/06A W/ZRAQ	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	760007948
5200 06/12A W/ZRAQ	18	Single Unit	0.30 in (7.7 mm)	32.1 lbs/kft (48 kg/km)	760018606
5200 06/18A W/ZRAQ	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	760018614
5200 12/12A W/ZRAQ	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	760018622
5300 06/12A W/ZRAQ	18	Multi-unit	0.48 in (12.3 mm)	99.8 lbs/kft (148 kg/km)	760007955
5300 06/18A W/ZRAQ	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	760007963
5300 12/12A W/ZRAQ	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	760007971
5300 12/24A W/ZRAQ	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	760007997
5300 12/36A W/ZRAQ	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	760008011
5300 24/24A W/ZRAQ	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	760008029
5300 12/48A W/ZRAQ	60	Multi-unit	0.71 in (18.0 mm)	187.6 lbs/kft (279 kg/km)	760008037
5300 24/48A W/ZRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	760008045
5300 12/60A W/ZRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	760008052
5300 36/36A W/ZRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	760008060

TeraSPEED/LazrSPEED 150 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 06/06A W/HRAQ	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	760054981
5200 06/12A W/HRAQ	18	Single Unit	0.30 in (7.7 mm)	32.1 lbs/kft (48 kg/km)	760019166
5300 06/12A W/HRAQ	18	Multi-unit	0.48 in (12.3 mm)	99.8 lbs/kft (148 kg/km)	760018390
5300 12/24A W/HRAQ	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	760057307
5300 24/48A W/HRAQ	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	760018408

TeraSPEED/LazrSPEED 300 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 02/02A W/ZHAQ	4	Single Unit	0.19 in (4.8 mm)	14.3 lbs/kft (21 kg/km)	760009183
5202 02/04A W/ZHAQ	6	Single Unit	0.20 in (5.2 mm)	16.4 lbs/kft (24 kg/km)	760009191
5202 02/06A W/ZHAQ	8	Single Unit	0.22 in (5.5 mm)	19.1 lbs/kft (28 kg/km)	760009209
5202 04/04A W/ZHAQ	8	Single Unit	0.22 in (5.5 mm)	19.1 lbs/kft (28 kg/km)	760009217
5202 04/08A W/ZHAQ	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	760009225
5202 06/06A W/ZHAQ	12	Single Unit	0.24 in (6.1 mm)	23.0 lbs/kft (34 kg/km)	760009233
5302 06/12A W/ZHAQ	18	Multi-unit	0.51 in (12.9 mm)	92.2 lbs/kft (137 kg/km)	760009241
5302 06/18A W/ZHAQ	24	Multi-unit	0.56 in (12.4 mm)	116.6 lbs/kft (174 kg/km)	760009258
5302 12/12A W/ZHAQ	24	Multi-unit	0.56 in (12.4 mm)	116.6 lbs/kft (174 kg/km)	760009266
5302 12/24A W/ZHAQ	36	Multi-unit	0.59 in (14.9 mm)	118.5 lbs/kft (176 kg/km)	760009282
5302 12/36A W/ZHAQ	48	Multi-unit	0.65 in (16.4 mm)	150.3 lbs/kft (224 kg/km)	760009308
5302 24/24A W/ZHAQ	48	Multi-unit	0.65 in (16.4 mm)	150.3 lbs/kft (224 kg/km)	760009316
5302 12/48A W/ZHAQ	60	Multi-unit	0.73 in (18.5 mm)	196.6 lbs/kft (293 kg/km)	760009324
5302 24/48A W/ZHAQ	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	760009332
5302 12/60A W/ZHAQ	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	760009340
5302 36/36A W/ZHAQ	72	Multi-unit	0.79 in (20.2 mm)	242.2 lbs/kft (360 kg/km)	760009357

Building



TeraSPEED/OptiSPEED Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 02/02A W/MPSL	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	760007716
5201 02/04A W/MPSL	6	Single Unit	0.18 in (4.6 mm)	14.4 lbs/kft (21 kg/km)	760007724
5201 02/06A W/MPSL	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760007732
5201 04/04A W/MPSL	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760007740
5201 04/08A W/MPSL	12	Single Unit	0.23 in (5.8 mm)	20.8 lbs/kft (31 kg/km)	760007757
5201 06/06A W/MPSL	12	Single Unit	0.22 in (5.7 mm)	20.8 lbs/kft (31 kg/km)	760007765
5201 06/12A W/MPSL	18	Single Unit	0.31 in (7.9 mm)	40.9 lbs/kft (61 kg/km)	760018705
5201 06/18A W/MPSL	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018713
5201 12/12A W/MPSL	24	Single Unit	0.33 in (8.5 mm)	47.3 lbs/kft (70 kg/km)	760018721
5301 06/12A W/MPSL	18	Multi-unit	0.45 in (11.5 mm)	96.1 lbs/kft (143 kg/km)	760007773
5301 06/18A W/MPSL	24	Multi-unit	0.5 in (12.7 mm)	104.5 lbs/kft (155 kg/km)	760007781
5301 12/12A W/MPSL	24	Multi-unit	0.5 in (12.7 mm)	104.5 lbs/kft (155 kg/km)	760007799
5301 12/24A W/MPSL	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	760007815
5301 12/36A W/MPSL	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760007831
5301 24/24A W/MPSL	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760007849
5301 12/48A W/MPSL	60	Multi-unit	0.68 in (17.2 mm)	190.0 lbs/kft (282 kg/km)	760007856
5301 24/48A W/MPSL	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760007864
5301 12/60A W/MPSL	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760007872
5301 36/36A W/MPSL	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760007880

Building

TeraSPEED/OptiSPEED Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Color	Material ID
5200 02/02A W/MRSL	4	Single Unit	0.19 in (4.8 mm)	13.1 lbs/kft (19 kg/km)	Slate	760007534
5200 02/04A W/MRSL	6	Single Unit	0.20 in (5.1 mm)	15.2 lbs/kft (23 kg/km)	Slate	760007559
5200 02/06A W/MRSL	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	Slate	760007567
5200 04/04A W/MRSL	8	Single Unit	0.22 in (5.5 mm)	17.2 lbs/kft (26 kg/km)	Slate	760007575
5200 04/08A W/MRSL	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	Slate	760007583
5200 06/06A W/MRSL	12	Single Unit	0.24 in (6.0 mm)	21.7 lbs/kft (32 kg/km)	Slate	760007591
5200 06/12A W/MRSL	18	Single Unit	0.30 in (7.7 mm)	32.1 lbs/kft (48 kg/km)	Slate	760018572
5200 06/18A W/MRSL	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	Slate	760018580
5200 12/12A W/MRSL	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	Slate	760018598
5200 12/12A W/MROR	24	Single Unit	0.33 in (8.4 mm)	37.9 lbs/kft (56 kg/km)	Orange	760026393
5300 06/12A W/MRSL	18	Multi-unit	0.48 in (12.3 mm)	99.8 lbs/kft (148 kg/km)	Slate	760007609
5300 06/18A W/MRSL	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	Slate	760007617
5300 12/12A W/MRSL	24	Multi-unit	0.56 in (14.1 mm)	106.7 lbs/kft (159 kg/km)	Slate	760007625
5300 12/24A W/MRSL	36	Multi-unit	0.58 in (14.6 mm)	112.4 lbs/kft (167 kg/km)	Slate	760007641
5300 12/36A W/MRSL	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	Slate	760007666
5300 12/60A W/MRSL	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	Slate	760007682
5300 24/24A W/MRSL	48	Multi-unit	0.63 in (16.1 mm)	142.8 lbs/kft (212 kg/km)	Slate	760007674
5300 24/48A W/MRSL	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	Slate	760007690
5300 36/36A W/MRSL	72	Multi-unit	0.79 in (19.9 mm)	231.6 lbs/kft (345 kg/km)	Slate	760007708
5300 48/48A W/MRSL	96	Multi-unit	0.93 in (23.7 mm)	337.2 lbs/kft (502 kg/km)	Slate	760017616

TeraSPEED/OptiSPEED LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 02/02A W/MHOR	4	Single Unit	0.17 in (4.4 mm)	12.2 lbs/kft (18 kg/km)	760009001
5202 02/04A W/MHOR	6	Single Unit	0.18 in (4.6 mm)	14.4 lbs/kft (21 kg/km)	760009019
5202 02/06A W/MHOR	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760009027
5202 04/04A W/MHOR	8	Single Unit	0.20 in (5.1 mm)	16.8 lbs/kft (25 kg/km)	760009035
5202 04/08A W/MHOR	12	Single Unit	0.22 in (5.7 mm)	20.8 lbs/kft (31 kg/km)	760009043
5202 06/06A W/MHOR	12	Single Unit	0.22 in (5.7 mm)	20.8 lbs/kft (31 kg/km)	760009050
5302 06/12A W/MHOR	18	Multi-unit	0.45 in (11.5 mm)	96.1 lbs/kft (143 kg/km)	760009068
5302 06/18A W/MHOR	24	Multi-unit	0.5 in (12.7 mm)	104.5 lbs/kft (155 kg/km)	760009076
5302 12/12A W/MHOR	24	Multi-unit	0.5 in (12.7 mm)	104.5 lbs/kft (155 kg/km)	760009084
5302 12/24A W/MHOR	36	Multi-unit	0.54 in (13.7 mm)	128.4 lbs/kft (191 kg/km)	760009100
5302 12/36A W/MHOR	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760009126
5302 24/24A W/MHOR	48	Multi-unit	0.59 in (15.1 mm)	137.7 lbs/kft (205 kg/km)	760009134
5302 12/48A W/MHOR	60	Multi-unit	0.68 in (17.2 mm)	190.0 lbs/kft (282 kg/km)	760009142
5302 24/48A W/MHOR	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760009159
5302 12/60A W/MHOR	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760009167
5302 36/36A W/MHOR	72	Multi-unit	0.75 in (19.1 mm)	237.1 lbs/kft (353 kg/km)	760009175

Building

Interlocking Armored Cables

SYSTIMAX Interlocking Armored Fiber Optic Cable provides superior protection and space savings. It provides installation protection from bending and excessive pull tension, significant time and labor reductions versus conduit or innerduct installations and increased installation and design flexibility.

SYSTIMAX Interlocking Armor can be used anywhere additional protection and security for the fiber cable is desired.

Applications include building backbone, zone distribution, raised floor, data centers and storage area networks (SANs). Vertical markets include: industrial, manufacturing, airports, stadiums, military and any other vertical where increased protection and security for the fiber cable is desired. These include: financial, hospitals, educational facilities and many more.

The SYSTIMAX Interlocking Armor is applied spirally around any premise distribution cable, and is available in aluminum. The armored cable is then over-jacketed with a sheath. This sheath is color-coded to the fiber type contained within, and provides not only the ability to print the armor with all relevant information on the cable inside, but also allows for easier handling and pulling.

- The Plenum cable is (UL and cUL) TYPE OFCP
- The Riser cable is (UL and cUL) TYPE OFNR
- The LSZH cable is (UL and cUL) TYPE OFCR, OFN-LS, IEC60332-3C and IEC61034-2 compliant

Environmental and Mechanical Specifications:

Operating Temperature: -4°F to 158°F (-20°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: 32°F to 158°F (0°C to 70°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Crush Resistance: 486.8 lbf/in (85 N/mm) (Test Method: FOTP – 41)

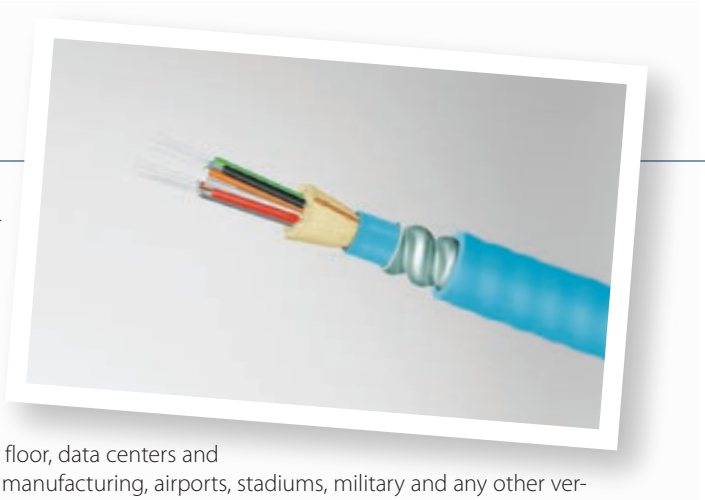
Impact Resistance: 25.8 lbf-ft (35 N-m) (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Fibers are identified with standard color coding.



LazrSPEED 550 Interlocking Armored Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 006A XPAQ APAQ	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	760012138-APAQ
5201 012A XPAQ APAQ	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	760006411-APAQ
5201 024A XPAQ APAQ	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018697-APAQ
5301 024A XPAQ APAQ	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	760012146-APAQ
5301 036A XPAQ APAQ	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	760024547-APAQ
5301 048A XPAQ APAQ	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	760024554-APAQ
5301 072A XPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760024562-APAQ
5301 096A XPAQ APAQ	96	Multi-unit	1.26 in (31.9 mm)	569 lbs/kft (847 kg/km)	760021691-APAQ
5301 144A XPAQ APAQ	144	Multi-unit	1.26 in (31.9 mm)	539 lbs/kft (802 kg/km)	760024869-APAQ

LazrSPEED 300 Interlocking Armored Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 002A ZPAQ APAQ	2	Single Unit	0.56 in (14.1 mm)	100 lbs/kft (148 kg/km)	700009855-APAQ
5201 004A ZPAQ APAQ	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	700009814-APAQ
5201 006A ZPAQ APAQ	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	700009772-APAQ
5201 008A ZPAQ APAQ	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760008508-APAQ
5201 012A ZPAQ APAQ	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	700009731-APAQ
5201 018A ZPAQ APAQ	18	Single Unit	0.66 in (16.6 mm)	153 lbs/kft (227 kg/km)	760042556-APAQ
5201 024A ZPAQ APAQ	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018689-APAQ
5301 036A ZPAQ APAQ	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	700009673-APAQ
5301 048A ZPAQ APAQ	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	700211147-APAQ
5301 072A ZPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	700211154-APAQ
5301 096A ZPAQ APAQ	96	Multi-unit	1.26 in (31.9 mm)	569 lbs/kft (847 kg/km)	760010132-APAQ

Interlocking
Armored

LazrSPEED 150 Interlocking Armored Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 002A HPAQ APAQ	2	Single Unit	0.56 in (14.1 mm)	100 lbs/kft (148 kg/km)	700009871-APAQ
5201 004A HPAQ APAQ	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	700009830-APAQ
5201 006A HPAQ APAQ	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	700009798-APAQ
5201 008A HPAQ APAQ	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760008698-APAQ
5201 012A HPAQ APAQ	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	700009756-APAQ
5201 024A HPAQ APAQ	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018671-APAQ
5301 024A HPAQ APAQ	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	700009715-APAQ
5301 036A HPAQ APAQ	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	700205586-APAQ
5301 048A HPAQ APAQ	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	700211105-APAQ
5301 072A HPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	700211113-APAQ
5301 144A HPAQ APAQ	144	Multi-unit	1.26 in (31.9 mm)	539 lbs/kft (802 kg/km)	760024836-APAQ

LazrSPEED 550 Interlocking Armored Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A XRAQ ARAQ	2	Single Unit	0.56 in (14.1 mm)	92 lbs/kft (137 kg/km)	760028753-ARAQ
5200 006A XRAQ ARAQ	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	760012104-ARAQ
5200 012A XRAQ ARAQ	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	760012112-ARAQ
5200 024A XRAQ ARAQ	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018564-ARAQ
5300 024A XRAQ ARAQ	24	Multi-unit	0.91 in (23.0 mm)	258 lbs/kft (385 kg/km)	760012120-ARAQ
5300 036A XRAQ ARAQ	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	760026831-ARAQ
5300 048A XRAQ ARAQ	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	760026849-ARAQ
5300 072A XRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760026856-ARAQ
5300 096A XRAQ ARAQ	96	Multi-unit	1.26 in (31.9 mm)	528 lbs/kft (786 kg/km)	760026864-ARAQ
5300 144A XRAQ ARAQ	144	Multi-unit	1.36 in (34.4 mm)	558 lbs/kft (830 kg/km)	760026872-ARAQ

LazrSPEED 300 Interlocking Armored Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A ZRAQ ARAQ	2	Single Unit	0.56 in (14.1 mm)	92 lbs/kft (137 kg/km)	700208127-ARAQ
5200 004A ZRAQ ARAQ	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	700208135-ARAQ
5200 006A ZRAQ ARAQ	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	700208143-ARAQ
5200 008A ZRAQ ARAQ	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760008516-ARAQ
5200 012A ZRAQ ARAQ	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	700208150-ARAQ
5200 024A ZRAQ ARAQ	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018556-ARAQ
5300 024A ZRAQ ARAQ	24	Multi-unit	0.91 in (23.0 mm)	258 lbs/kft (385 kg/km)	700208168-ARAQ
5300 036A ZRAQ ARAQ	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	700208176-ARAQ
5300 048A ZRAQ ARAQ	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	700208218-ARAQ
5300 072A ZRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	700208226-ARAQ
5300 096A ZRAQ ARAQ	96	Multi-unit	1.26 in (31.9 mm)	528 lbs/kft (786 kg/km)	760047860-ARAQ
5300 144A ZRAQ ARAQ	144	Multi-unit	1.36 in (34.4 mm)	558 lbs/kft (830 kg/km)	760018861-ARAQ

LazrSPEED 150 Interlocking Armored Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A HRAQ ARAQ	2	Single Unit	0.56 in (14.1 mm)	92 lbs/kft (137 kg/km)	700203052-ARAQ
5200 004A HRAQ ARAQ	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	700203060-ARAQ
5200 006A HRAQ ARAQ	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	700203078-ARAQ
5200 008A HRAQ ARAQ	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760008706-ARAQ
5200 012A HRAQ ARAQ	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	700203086-ARAQ
5200 024A HRAQ ARAQ	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018549-ARAQ
5300 024A HRAQ ARAQ	24	Multi-unit	0.91 in (23.0 mm)	258 lbs/kft (385 kg/km)	700203094-ARAQ
5300 036A HRAQ ARAQ	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	700203102-ARAQ
5300 048A HRAQ ARAQ	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	700203110-ARAQ
5300 072A HRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	700203128-ARAQ
5300 096A HRAQ ARAQ	96	Multi-unit	1.26 in (31.9 mm)	528 lbs/kft (786 kg/km)	760026310-ARAQ
5300 144A HRAQ ARAQ	144	Multi-unit	1.36 in (34.4 mm)	558 lbs/kft (830 kg/km)	760024810-ARAQ

LazrSPEED 550 Interlocking Armored LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 006A XHAQ AHAQ	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	760012153-AHAQ
5202 012A XHAQ AHAQ	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	760012161-AHAQ
5202 024A XHAQ AHAQ	24	Single Unit	0.66 in (16.6 mm)	151 lbs/kft (224 kg/km)	760019117-AHAQ
5302 024A XHAQ AHAQ	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	760012179-AHAQ

Interlocking
Armored

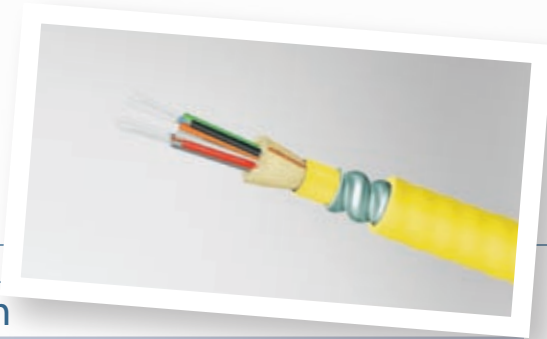
LazrSPEED 300 Interlocking Armored LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 002A ZHAQ AHAQ	2	Single Unit	0.56 in (14.1 mm)	94 lbs/kft (140 kg/km)	700009863-AHAQ
5202 004A ZHAQ AHAQ	4	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	700009822-AHAQ
5202 006A ZHAQ AHAQ	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	700009780-AHAQ
5202 008A ZHAQ AHAQ	8	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	760026336-AHAQ
5202 012A ZHAQ AHAQ	12	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	700009749-AHAQ
5202 024A ZHAQ AHAQ	24	Single Unit	0.66 in (16.6 mm)	223 lbs/kft (331 kg/km)	760019109-AHAQ
5302 024A ZHAQ AHAQ	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	700009707-AHAQ
5302 036A ZHAQ AHAQ	36	Multi-unit	0.91 in (23.0 mm)	275 lbs/kft (409 kg/km)	700009681-AHAQ
5302 048A ZHAQ AHAQ	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	700211121-AHAQ
5302 072A ZHAQ AHAQ	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	700211139-AHAQ

Interlocking
Armored

LazrSPEED 150 Interlocking Armored LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 002A HHAQ AHAQ	2	Single Unit	0.56 in (14.1 mm)	94 lbs/kft (140 kg/km)	700009889-AHAQ
5202 004A HHAQ AHAQ	4	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	700009848-AHAQ
5202 006A HHAQ AHAQ	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	700009806-AHAQ
5202 012A HHAQ AHAQ	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	700009764-AHAQ
5202 024A HHAQ AHAQ	24	Single Unit	0.66 in (16.6 mm)	151 lbs/kft (224 kg/km)	760019091-AHAQ
5302 024A HHAQ AHAQ	24	Multi-unit	.091 in (23.0 mm)	273 lbs/kft (406 kg/km)	700009723-AHAQ
5302 036A HHAQ AHAQ	36	Multi-unit	0.91 in (23.0 mm)	275 lbs/kft (409 kg/km)	700229511-AHAQ
5302 048A HHAQ AHAQ	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	700211089-AHAQ
5302 072A HHAQ AHAQ	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	700211097-AHAQ



TeraSPEED Interlocking Armored, Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 002A WPYL APYL	2	Single Unit	0.56 in (14.1 mm)	100 lbs/kft (148 kg/km)	760004317-APYL
5201 004A WPYL APYL	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	760004325-APYL
5201 006A WPYL APYL	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	760004333-APYL
5201 008A WPYL APYL	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760004341-APYL
5201 012A WPYL APYL	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	760004358-APYL
5201 024A WPYL APYL	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018630-APYL
5301 024A WPYL APYL	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	760004366-APYL
5301 036A WPYL APYL	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	760004374-APYL
5301 048A WPYL APYL	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	760004382-APYL
5301 072A WPYL APYL	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760004390-APYL
5301 096A WPYL APYL	96	Multi-unit	1.26 in (31.9 mm)	569 lbs/kft (847 kg/km)	760018051-APYL
5301 144A WPYL APYL	144	Multi-unit	1.26 in (31.9 mm)	539 lbs/kft (802 kg/km)	760018895-APYL

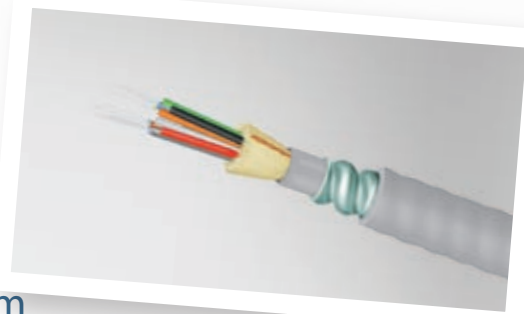
TeraSPEED Interlocking Armored, Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 002A WRYL ARYL	2	Single Unit	0.56 in (14.1 mm)	92 lbs/kft (137 kg/km)	760004408-ARYL
5200 004A WRYL ARYL	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	760004416-ARYL
5200 006A WRYL ARYL	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	760004424-ARYL
5200 008A WRYL ARYL	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760004432-ARYL
5200 012A WRYL ARYL	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	760004440-ARYL
5200 024A WRYL ARYL	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018515-ARYL
5300 024A WRYL ARYL	24	Multi-unit	0.91 in (23.0 mm)	258 lbs/kft (385 kg/km)	760004457-ARYL
5300 036A WRYL ARYL	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	760004465-ARYL
5300 048A WRYL ARYL	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	760004473-ARYL
5300 072A WRYL ARYL	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760004481-ARYL
5300 096A WRYL ARYL	96	Multi-unit	1.26 in (31.9 mm)	528 lbs/kft (786 kg/km)	760026823-ARYL
5300 144A WRYL ARYL	144	Multi-unit	1.36 in (34.4 mm)	558 lbs/kft (830 kg/km)	760018887-ARYL

TeraSPEED Interlocking Armored, LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 006A WHYL AHYL	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	760004242-AHYL
5202 008A WHYL AHYL	8	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	760004259-AHYL
5202 012A WHYL AHYL	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	760004267-AHYL
5202 024A WHYL AHYL	24	Single Unit	0.66 in (16.6 mm)	151 lbs/kft (224 kg/km)	760019075-AHYL
5302 024A WHYL AHYL	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	760004275-AHYL
5302 036A WHYL AHYL	36	Multi-unit	0.91 in (23.0 mm)	275 lbs/kft (409 kg/km)	760004283-AHYL
5302 048A WHYL AHYL	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	760004291-AHYL
5302 072A WHYL AHYL	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760004309-AHYL

Interlocking
Armored



OptiSPEED Interlocking Armored, Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Color	Material ID
5201 002A MPOR APOR	2	Single Unit	0.56 in (14.1 mm)	100 lbs/kft (148 kg/km)	Orange	700009665-APOR
5201 002A MPSL APSL	2	Single Unit	0.56 in (14.1 mm)	100 lbs/kft (148 kg/km)	Slate	700009657-APSL
5201 004A MPOR APOR	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	Orange	700009590-APOR
5201 004A MPSL APSL	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	Slate	700009582-APSL
5201 006A MPOR APOR	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	Orange	700009525-APOR
5201 006A MPSL APSL	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	Slate	700009517-APSL
5201 008A MPSL APSL	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	Slate	700009442-APSL
5201 012A MPSL APSL	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	Slate	700009392-APSL
5201 012A MPOR APOR	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	Orange	700009400-APOR
5201 018A MPSL APSL	18	Single Unit	0.66 in (16.6 mm)	153 lbs/kft (227 kg/km)	Slate	760018648-APSL
5201 024A MPOR APOR	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	Orange	760018655-APOR
5301 036A MPSL APSL	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	Slate	700009186-APSL
5301 048A MPSL APSL	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	Slate	700009095-APSL
5301 072A MPSL APSL	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	Slate	700009004-APSL
5301 144A MPSL APSL	144	Multi-unit	1.26 in (31.9 mm)	539 lbs/kft (802 kg/km)	Slate	760032821-APSL
5301 018A MPSL APSL	18	Multi-unit	0.76 in (19.2 mm)	215 lbs/kft (320 kg/km)	Slate	700009319-APSL
5301 024A MPOR APOR	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	Orange	700009285-APOR
5301 024A MPSL APSL	24	Multi-unit	0.86 in (21.7)	262 lbs/kft (389 kg/km)	Slate	700009277-APSL

Interlocking
Armored

OptiSPEED Interlocking Armored, Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Color	Material ID
5200 002A MROR AROR	2	Single Unit	0.56 in (14.1 mm)	92 lbs/kft (137 kg/km)	Orange	700010184-AROR
5200 002A MRSL ARSL	2	Single Unit	0.56 in (14.1 mm)	92 lbs/kft (137 kg/km)	Slate	700009640-ARSL
5200 004A MROR AROR	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	Orange	700012172-AROR
5200 004A MRSL ARSL	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	Slate	700009574-ARSL
5200 006A MROR AROR	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	Orange	700010176-AROR
5200 006A MRSL ARSL	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	Slate	700009509-ARSL
5200 008A MROR AROR	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	Orange	700012180-AROR
5200 008A MRSL ARSL	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	Slate	700009434-ARSL
5200 012A MROR AROR	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	Orange	700010168-AROR
5200 012A MRSL ARSL	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	Slate	700009384-ARSL
5200 018A MRSL ARSL	18	Single Unit	0.66 in (16.6 mm)	135 lbs/kft (201 kg/km)	Slate	760018523-ARSL
5200 024A MRSL ARSL	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	Slate	760018531-ARSL
5300 036A MRSL ARSL	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	Slate	700009178-ARSL
5300 048A MRSL ARSL	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	Slate	700009087-ARSL
5300 072A MRSL ARSL	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	Slate	700008998-ARSL
5300 096A MRSL ARSL	96	Multi-unit	1.26 in (31.9 mm)	528 lbs/kft (786 kg/km)	Slate	760026815-ARSL

OptiSPEED Interlocking Armored, LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 002A MHOR AHOR	2	Single Unit	0.56 in (14.1 mm)	91 lbs/kft (140 kg/km)	700008485-AHOR
5202 004A MHOR AHOR	4	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	700008477-AHOR
5202 006A MHOR AHOR	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	700008469-AHOR
5202 008A MHOR AHOR	8	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	700008451-AHOR
5202 012A MHOR AHOR	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	700008444-AHOR
5202 024A MHOR AHOR	24	Single Unit	0.66 in (16.6 mm)	151 lbs/kft (224 kg/km)	760019083-AHOR
5302 024A MHOR AHOR	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	700009293-AHOR
5302 036A MHOR AHOR	36	Multi-unit	0.91 in (23.0 mm)	275 lbs/kft (409 kg/km)	700009194-AHOR
5302 048A MHOR AHOR	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	700009103-AHOR
5302 072A MHOR AHOR	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	700009012-AHOR

Interlocking
Armored

Composite Interlocking Armored Cables

SYSTIMAX Interlocking Armored Fiber Optic Cable provides superior protection and space savings. It provides installation protection from bending and excessive pull tension, significant time and labor reductions versus conduit or innerduct installations and increased installation and design flexibility.

SYSTIMAX Interlocking Armor can be used anywhere additional protection and security for the fiber cable is desired. Applications include building backbone, zone distribution, raised floor, data centers and storage area networks (SANs). Vertical markets include: industrial, manufacturing, airports, stadiums, military, and any other vertical where increased protection and security for the fiber cable is desired. These include: financial, hospitals, educational facilities and many more.

The SYSTIMAX Interlocking Armor is applied spirally around any premise distribution cable, and is available aluminum. The armored cable is then over jacketed with a sheath. This sheath is color-coded to the fiber type contained within, and provides not only the ability to print the armor with all relevant information on the cable inside, but also allows for easier handling and pulling.

- The Plenum cable is (UL and cUL) TYPE OFCP
- The Riser cable is (UL and cUL) TYPE OFCP
- The LSZH cable is (UL and cUL) TYPE OFCR, OFN-LS, IEC60332-3C and IEC61034-2 compliant

Environmental and Mechanical Specifications:

Operating Temperature: -4°F to 158°F (-20°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: 32°F to 158°F (0°C to 70°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

Crush Resistance: 486.8 lbf/in (85 N/mm) (Test Method: FOTP – 41)

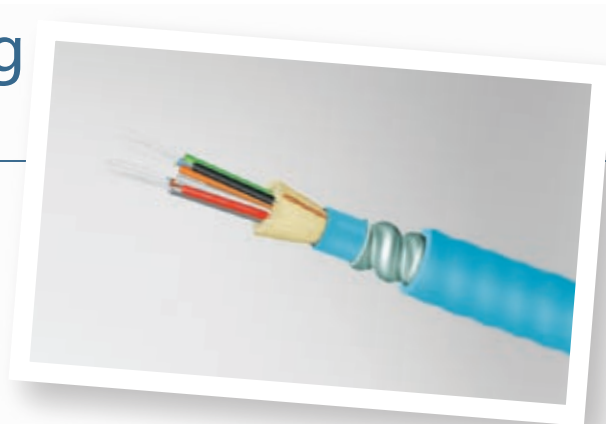
Impact Resistance: 25.8 lbf-ft (35 N-m) (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Fibers are identified with standard color coding.



Interlocking Armored

TeraSPEED/LazrSPEED 300 Interlocking Armored Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 02/02A W/ZPAQ APAQ	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	760008078-APAQ
5201 02/04A W/ZPAQ APAQ	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	760008086-APAQ
5201 02/06A W/ZPAQ APAQ	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760008094-APAQ
5201 04/04A W/ZPAQ APAQ	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760008102-APAQ
5201 04/08A W/ZPAQ APAQ	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	760008110-APAQ
5201 06/06A W/ZPAQ APAQ	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	760008128-APAQ
5301 06/12A W/ZPAQ APAQ	18	Single Unit	0.66 in (16.6 mm)	153 lbs/kft (227 kg/km)	760008136-APAQ
5201 06/12A W/ZPAQ APAQ	18	Single Unit	0.66 in (16.6 mm)	153 lbs/kft (227 kg/km)	760018739-APAQ
5201 06/18A W/ZPAQ APAQ	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018747-APAQ
5201 12/12A W/ZPAQ APAQ	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018754-APAQ
5301 06/18A W/ZPAQ APAQ	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	760008144-APAQ
5301 12/12A W/ZPAQ APAQ	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	760008151-APAQ
5301 12/24A W/ZPAQ APAQ	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	760008177-APAQ
5301 12/36A W/ZPAQ APAQ	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	760008193-APAQ
5301 24/24A W/ZPAQ APAQ	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	760008201-APAQ
5301 12/48A W/ZPAQ APAQ	60	Multi-unit	1.01 in (25.5 mm)	352 lbs/kft (524 kg/km)	760008219-APAQ
5301 12/60A W/ZPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760008235-APAQ
5301 24/48A W/ZPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760008227-APAQ
5301 36/36A W/ZPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760008243-APAQ

TeraSPEED/LazrSPEED 150 Interlocking Armored Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 06/12A W/HPAQ APAQ	18	Single Unit	0.66 in (16.6 mm)	153 lbs/kft (227 kg/km)	760019158-APAQ
5301 24/48A W/HPAQ APAQ	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (633 kg/km)	760018788-APAQ
5301 06/12A W/HPAQ APAQ	18	Multi-unit	0.76 in (19.2 mm)	215 lbs/kft (320 kg/km)	760018770-APAQ

TeraSPEED/LazrSPEED 300 Interlocking Armored Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 02/02A W/ZRAQ ARAQ	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	760007898-ARAQ
5200 02/04A W/ZRAQ ARAQ	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	760007906-ARAQ
5200 02/06A W/ZRAQ ARAQ	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760007914-ARAQ
5200 04/04A W/ZRAQ ARAQ	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760007922-ARAQ
5200 04/08A W/ZRAQ ARAQ	12	Single Unit	0.56 in (14.1 mm)	102 lbs/kft (152 kg/km)	760007930-ARAQ
5200 06/06A W/ZRAQ ARAQ	12	Single Unit	0.56 in (14.1 mm)	102 lbs/kft (152 kg/km)	760007948-ARAQ
5200 06/12A W/ZRAQ ARAQ	18	Single Unit	0.66 in (16.6 mm)	135 lbs/kft (201 kg/km)	760018606-ARAQ
5300 06/12A W/ZRAQ ARAQ	18	Multi-unit	0.81 in (20.4 mm)	232 lbs/kft (345 kg/km)	760007955-ARAQ
5200 06/18A W/ZRAQ ARAQ	24	Multi-unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018614-ARAQ
5200 12/12A W/ZRAQ ARAQ	24	Multi-unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018622-ARAQ
5300 06/18A W/ZRAQ ARAQ	24	Multi-unit	0.91 in (23.0 mm)	258 lbs/kft (385 kg/km)	760007963-ARAQ
5300 12/12A W/ZRAQ ARAQ	24	Multi-unit	0.91 in (23.0 mm)	258 lbs/kft (385 kg/km)	760007971-ARAQ
5300 12/24A W/ZRAQ ARAQ	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	760007997-ARAQ
5300 12/36A W/ZRAQ ARAQ	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	760008011-ARAQ
5300 24/24A W/ZRAQ ARAQ	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	760008029-ARAQ
5300 12/48A W/ZRAQ ARAQ	60	Multi-unit	1.06 in (26.8 mm)	345 lbs/kft (513 kg/km)	760008037-ARAQ
5300 12/60A W/ZRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760008052-ARAQ
5300 24/48A W/ZRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760008045-ARAQ
5300 36/36A W/ZRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760008060-ARAQ

TeraSPEED/LazrSPEED 150 Interlocking Armored Riser

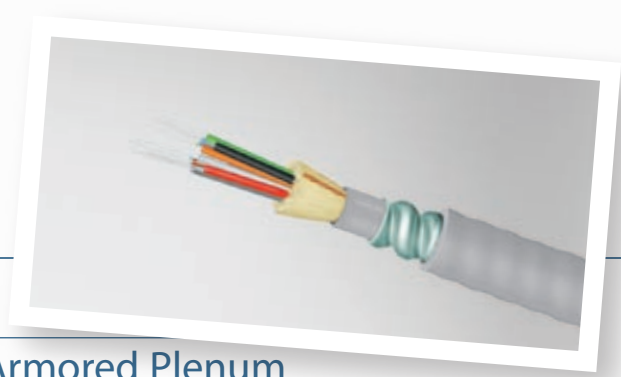
Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5200 06/06A W/HRAQ ARAQ	12	Single Unit	0.56 in (14.1 mm)	102 lbs/kft (152 kg/km)	760054981-ARAQ
5200 06/12A W/HRAQ ARAQ	18	Single Unit	0.66 in (16.6 mm)	135 lbs/kft (201 kg/km)	760019166-ARAQ
5300 06/12A W/HRAQ ARAQ	18	Multi-unit	0.81 in (20.4 mm)	232 lbs/kft (345 kg/km)	760018390-ARAQ
5300 12/24A W/HRAQ ARAQ	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	760057307-ARAQ
5300 24/48A W/HRAQ ARAQ	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760018408-ARAQ

Interlocking
Armored

TeraSPEED/LazrSPEED 300 Interlocking Armored LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 02/02A W/ZHAQ AHAQ	4	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760009183-AHAQ
5202 02/04A W/ZHAQ AHAQ	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	760009191-AHAQ
5202 02/06A W/ZHAQ AHAQ	8	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	760009209-AHAQ
5202 04/04A W/ZHAQ AHAQ	8	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	760009217-AHAQ
5202 04/08A W/ZHAQ AHAQ	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	760009225-AHAQ
5202 06/06A W/ZHAQ AHAQ	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	760009233-AHAQ
5202 06/12A W/ZHAQ AHAQ	18	Single Unit	0.66 in (16.6 mm)	215 lbs/kft (319 kg/km)	760019174-AHAQ
5202 06/18A W/ZHAQ AHAQ	24	Single Unit	0.66 in (16.6 mm)	223 lbs/kft (331 kg/km)	760019182-AHAQ
5202 12/12A W/ZHAQ AHAQ	24	Single Unit	0.66 in (16.6 mm)	223 lbs/kft (331 kg/km)	760019190-AHAQ
5302 06/12A W/ZHAQ AHAQ	18	Multi-unit	0.86 in (21.7 mm)	239 lbs/kft (355 kg/km)	760009241-AHAQ
5302 06/18A W/ZHAQ AHAQ	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	760009258-AHAQ
5302 12/12A W/ZHAQ AHAQ	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	760009266-AHAQ
5302 12/24A W/ZHAQ AHAQ	36	Multi-unit	0.91 in (23.0 mm)	275 lbs/kft (409 kg/km)	760009282-AHAQ
5302 12/36A W/ZHAQ AHAQ	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	760009308-AHAQ
5302 24/24A W/ZHAQ AHAQ	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	760009316-AHAQ
5302 12/48A W/ZHAQ AHAQ	60	Multi-unit	1.06 in (26.8 mm)	359 lbs/kft (535 kg/km)	760009324-AHAQ
5302 12/60A W/ZHAQ AHAQ	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760009340-AHAQ
5302 24/48A W/ZHAQ AHAQ	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760009332-AHAQ
5302 36/36A W/ZHAQ AHAQ	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760009357-AHAQ

Interlocking
Armored



TeraSPEED/OptiSPEED Interlocking Armored Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5201 02/02A W/MPSL APSL	4	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (154 kg/km)	760007716-APSL
5201 02/04A W/MPSL APSL	6	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (158 kg/km)	760007724-APSL
5201 02/06A W/MPSL APSL	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760007732-APSL
5201 04/04A W/MPSL APSL	8	Single Unit	0.56 in (14.1 mm)	108 lbs/kft (160 kg/km)	760007740-APSL
5201 04/08A W/MPSL APSL	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	760007757-APSL
5201 06/06A W/MPSL APSL	12	Single Unit	0.56 in (14.1 mm)	112 lbs/kft (166 kg/km)	760007765-APSL
5201 06/18A W/MPSL APSL	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018713-APSL
5201 12/12A W/MPSL APSL	24	Single Unit	0.66 in (16.6 mm)	159 lbs/kft (237 kg/km)	760018721-APSL
5301 06/12A W/MPSL APSL	18	Multi-unit	0.76 in (19.2 mm)	215 lbs/kft (320 kg/km)	760007773-APSL
5301 06/18A W/MPSL APSL	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	760007781-APSL
5301 12/12A W/MPSL APSL	24	Multi-unit	0.86 in (21.7 mm)	262 lbs/kft (389 kg/km)	760007799-APSL
5301 12/24A W/MPSL APSL	36	Multi-unit	0.86 in (21.7 mm)	282 lbs/kft (420 kg/km)	760007815-APSL
5301 12/36A W/MPSL APSL	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	760007831-APSL
5301 24/24A W/MPSL APSL	48	Multi-unit	0.91 in (23.0 mm)	302 lbs/kft (449 kg/km)	760007849-APSL
5301 12/48A W/MPSL APSL	60	Multi-unit	1.01 in (25.5 mm)	352 lbs/kft (524 kg/km)	760007856-APSL
5301 12/60A W/MPSL APSL	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760007872-APSL
5301 24/48A W/MPSL APSL	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760007864-APSL
5301 36/36A W/MPSL APSL	72	Multi-unit	1.11 in (28.1 mm)	418 lbs/kft (622 kg/km)	760007880-APSL

Interlocking
Armored

TeraSPEED/OptiSPEED Interlocking Armored Riser

Product Number	Pair Count	Construction Type	Outside Diameter	Weight	Material ID
5200 02/02A W/MRSL ARSL	4	Single Unit	0.56 in (14.1 mm)	97 lbs/kft (144 kg/km)	760007534-ARSL
5200 02/04A W/MRSL ARSL	6	Single Unit	0.56 in (14.1 mm)	99 lbs/kft (147 kg/km)	760007559-ARSL
5200 02/06A W/MRSL ARSL	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760007567-ARSL
5200 04/04A W/MRSL ARSL	8	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760007575-ARSL
5200 04/08A W/MRSL ARSL	12	Single Unit	0.56 in (14.1 mm)	105 lbs/kft (157 kg/km)	760007583-ARSL
5200 06/06A W/MRSL ARSL	12	Single Unit	0.56 in (14.1 mm)	102 lbs/kft (152 kg/km)	760007591-ARSL
5200 06/12A W/MRSL ARSL	18	Single Unit	0.66 in (16.6 mm)	135 lbs/kft (201 kg/km)	760018572-ARSL
5200 06/18A W/MRSL ARSL	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018580-ARSL
5200 12/12A W/MRSL ARSL	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760018598-ARSL
5200 12/12A W/MROR AROR	24	Single Unit	0.66 in (16.6 mm)	141 lbs/kft (210 kg/km)	760026393-AROR
5300 06/12A W/MRSL ARSL	18	Multi-unit	0.81 in (20.4 mm)	232 lbs/kft (345 kg/km)	760007609-ARSL
5300 06/18A W/MRSL ARSL	24	Multi-unit	0.91 in (23.0 mm)	106.7 lbs/kft (159 kg/km)	760007617-ARSL
5300 12/12A W/MRSL ARSL	24	Multi-unit	0.91 in (23.0 mm)	106.7 lbs/kft (159 kg/km)	760007625-ARSL
5300 12/24A W/MRSL ARSL	36	Multi-unit	0.91 in (23.0 mm)	264 lbs/kft (393 kg/km)	760007641-ARSL
5300 12/36A W/MRSL ARSL	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	760007666-ARSL
5300 24/24A W/MRSL ARSL	48	Multi-unit	0.96 in (24.3 mm)	283 lbs/kft (422 kg/km)	760007674-ARSL
5300 12/60A W/MRSL ARSL	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760007682-ARSL
5300 24/48A W/MRSL ARSL	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760007690-ARSL
5300 36/36A W/MRSL ARSL	72	Multi-unit	1.11 in (28.1 mm)	397 lbs/kft (591 kg/km)	760007708-ARSL
5300 48/48A W/MRSL ARSL	96	Multi-unit	1.26 in (31.9 mm)	528 lbs/kft (786 kg/km)	760017616-ARSL

Interlocking
Armored

TeraSPEED/OptiSPEED Interlocking Armored LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5202 02/02A W/MHOR AHOR	4	Single Unit	0.56 in (14.1 mm)	101 lbs/kft (150 kg/km)	760009001-AHOR
5202 02/04A W/MHOR AHOR	6	Single Unit	0.56 in (14.1 mm)	103 lbs/kft (153 kg/km)	760009019-AHOR
5202 02/06A W/MHOR AHOR	8	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	760009027-AHOR
5202 04/04A W/MHOR AHOR	8	Single Unit	0.56 in (14.1 mm)	106 lbs/kft (157 kg/km)	760009035-AHOR
5202 04/08A W/MHOR AHOR	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	760009043-AHOR
5202 06/06A W/MHOR AHOR	12	Single Unit	0.56 in (14.1 mm)	109 lbs/kft (163 kg/km)	760009050-AHOR
5202 06/12A W/MHOR AHOR	18	Single Unit	0.66 in (16.6 mm)	109 lbs/kft (163 kg/km)	760019125-AHOR
5202 06/18A W/MHOR AHOR	24	Single Unit	0.66 in (16.6 mm)	151 lbs/kft (224 kg/km)	760019133-AHOR
5202 12/12A W/MHOR AHOR	24	Single Unit	0.66 in (16.6 mm)	151 lbs/kft (224 kg/km)	760019141-AHOR
5302 06/12A W/MHOR AHOR	18	Multi-unit	0.86 in (21.7 mm)	239 lbs/kft (355 kg/km)	760009068-AHOR
5302 06/18A W/MHOR AHOR	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	760009076-AHOR
5302 12/12A W/MHOR AHOR	24	Multi-unit	0.91 in (23.0 mm)	273 lbs/kft (406 kg/km)	760009084-AHOR
5302 12/24A W/MHOR AHOR	36	Multi-unit	0.91 in (23.0 mm)	275 lbs/kft (409 kg/km)	760009100-AHOR
5302 12/36A W/MHOR AHOR	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	760009126-AHOR
5302 24/24A W/MHOR AHOR	48	Multi-unit	0.96 in (24.3 mm)	296 lbs/kft (440 kg/km)	760009134-AHOR
5302 12/48A W/MHOR AHOR	60	Multi-unit	1.06 in (26.8 mm)	359 lbs/kft (535 kg/km)	760009142-AHOR
5302 12/60A W/MHOR AHOR	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760009167-AHOR
5302 24/48A W/MHOR AHOR	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760009159-AHOR
5302 36/36A W/MHOR AHOR	72	Multi-unit	1.11 in (28.1 mm)	414 lbs/kft (616 kg/km)	760009175-AHOR

Indoor/Outdoor Tight Buffered Interlocking Armored Cable

SYSTIMAX Interlocking Armored Fiber-Optic Cable provides superior protection and space savings. It provides installation protection from bending and excessive pull tension, significant time and labor reductions versus conduit or innerduct installations and increased installation and design flexibility.

SYSTIMAX Interlocking Armor can be used anywhere additional protection and security for the fiber cable is desired. Applications include building backbone, zone distribution, raised floor, data centers and storage area networks (SANs). Vertical markets include: industrial, manufacturing, airports, stadiums, military and any other vertical where increased protection and security for the fiber cable is desired. These include: financial, hospitals, educational facilities and many more.

The SYSTIMAX Interlocking Armor is applied spirally around any premise distribution cable, and is available in aluminum. The armored cable is then over-jacketed with a sheath. This sheath is color-coded to the fiber type contained within, and provides not only the ability to print the armor with all relevant information on the cable inside, but also allows for easier handling and pulling.

- The Plenum cable is (UL and cUL) TYPE OFCP

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 158°F (-30°C to 70°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: Exceeds 485 lbf/in (85 N/mm) (Test Method: FOTP – 41)

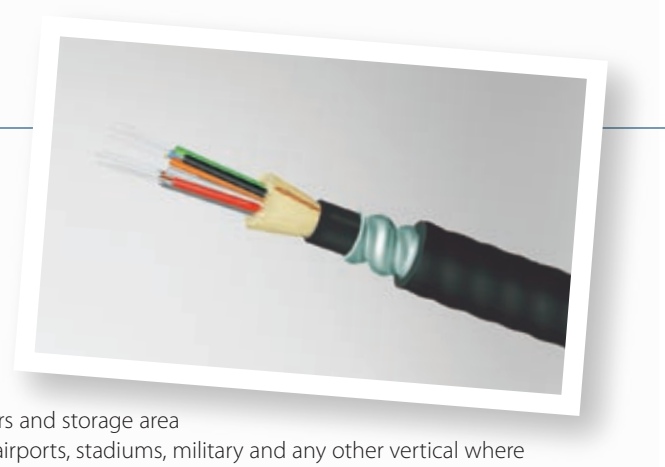
Impact Resistance: Exceeds 25.8 lb-ft (35 N-m) (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Fibers are identified with standard color coding.



LazrSPEED 300 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 012A ZPBK APBK	12	Single Unit	0.56 in (14.1 mm)	130 lbs/kft (194 kg/km)	760037374-APBK
5101 024A ZPBK APBK	24	Single Unit	0.61 in (15.4 mm)	146 lbs/kft (218 kg/km)	760037390-APBK

LazrSPEED 150 Plenum

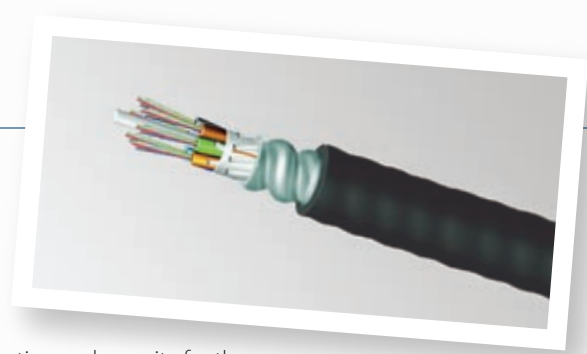
Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 012A HPBK APBK	12	Single Unit	0.56 in (14.1 mm)	130 lbs/kft (194 kg/km)	760037317-APBK
5101 024A HPBK APBK	24	Single Unit	0.61 in (15.4 mm)	146 lbs/kft (218 kg/km)	760037333-APBK

TeraSPEED Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 012A WPBK APBK	12	Single Unit	0.56 in (14.1 mm)	130 lbs/kft (194 kg/km)	760037192-APBK
5101 024A WPBK APBK	24	Single Unit	0.61 in (15.4 mm)	146 lbs/kft (218 kg/km)	760037218-APBK
5104 036A WPBK APBK	36	Single Unit	1.01 in (25.5 mm)	343 lbs/kft (510 kg/km)	760036895-APBK
5104 048A WPBK APBK	48	Single Unit	1.06 in (26.8 mm)	400 lbs/kft (595 kg/km)	760037903-APBK

Indoor/Outdoor Loose Tube Interlocking Armored Cable

SYSTIMAX Interlocking Armored Fiber-Optic Cable provides superior protection and space savings. It provides installation protection from bending and excessive pull tension, significant time and labor reductions versus conduit or innerduct installations and increased installation and design flexibility.



SYSTIMAX Interlocking Armor can be used anywhere additional protection and security for the fiber cable is desired. Applications include building backbone, zone distribution, raised floor, data centers and storage area networks (SANs). Vertical markets include: industrial, manufacturing, airports, stadiums, military and any other vertical where increased protection and security for the fiber cable is desired. These include: financial, hospitals, educational facilities and many more.

The SYSTIMAX Interlocking Armor is applied spirally around any premise distribution cable, and is available in aluminum. The armored cable is then over-jacketed with a sheath. This sheath is color-coded to the fiber type contained within, and provides not only the ability to print the armor with all relevant information on the cable inside, but also allows for easier handling and pulling.

- The Plenum cable is (UL and cUL) TYPE OFCP
- The Riser cable is (UL and cUL) TYPE OFCR
- The LSZH cable is (UL and cUL) TYPE OFCR, OFN-LS, IEC60332-3C and IEC61034-2 compliant

Environmental and Mechanical Specifications

Operating Temperature: -40° to 158° F (-40° to 70° C) (Test Method: FOTP - 3)

Installation Temperature: -22° to 140° F (-30° to 60° C)

Storage Temperature: -40°F to 167°F (-40° to 75°C)

Crush Resistance: 485 lbf/in (85 N/mm) (Test Method: FOTP - 41)

Impact Resistance: 25.8 lbf-ft (35 N-m) (Test Method: FOTP - 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP - 104)

Twist Bend: Exceeds (Test Method: FOTP - 85)

Physical Specifications

Cable Jacket: UV Stabilized Black. Fibers are identified with standard color coding.

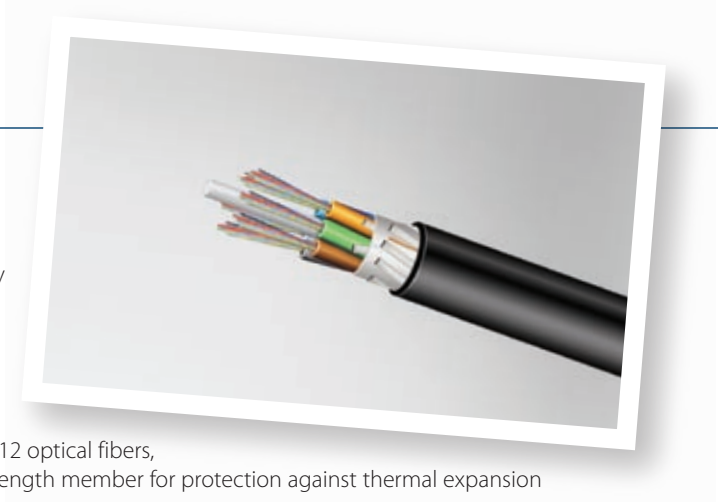
TeraSPEED Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 006A WPBK APBK	6	0.76 in (19.2 mm)	219 lbs/kft (326 kg/km)	760016550-APBK
5125 012A WPBK APBK	12	0.76 in (19.2 mm)	219 lbs/kft (326 kg/km)	760016568-APBK
5125 024A WPBK APBK	24	0.76 in (19.2 mm)	219 lbs/kft (326 kg/km)	760016576-APBK
5125 036A WPBK APBK	36	0.76 in (19.2 mm)	219 lbs/kft (326 kg/km)	760016584-APBK
5125 048A WPBK APBK	48	0.76 in (19.2 mm)	219 lbs/kft (326 kg/km)	760012229-APBK

Interlocking
Armored

Indoor/Outdoor Loose Tube Cable

The Plenum-Rated and Riser-Rated Indoor/Outdoor Stranded Loose Tube Dielectric Cable allows for connectivity ease and superior mid-span accessibility. The cable is designed to endure the rigors of outdoor use, but can also be run directly in plenum airspace or riser to eliminate a splice point at the building entrance. This cable provides seamless migration from the campus to the premises by bypassing termination requirements at the building entrance, thereby reducing the total cost of ownership. The basic construction utilizes standard 3.0 mm gel-filled buffer tubes which contain up to 12 optical fibers, buffer tubes are stranded around a rigid fiberglass central strength member for protection against thermal expansion and contraction at operational temperature extremes.



A fluoropolymer thermoplastic material is used for the outer jacket and buffer tubes to provide excellent petrochemical resistance, flame propagation and smoke generation properties that exceeds any similar cable design on the market today. These cables are designed for installation loads up to 600 lbs (2,700 N) and long term loads up to 180 lbs (800 N).

All cables meet the mechanical and environmental requirements of Telcordia GR-20-CORE Issue 2 Generic Requirements for Optical Fiber and Optical Fiber Cable and ANSI/ICEA S-87-640 Standard for Optical Fiber Outside Plant Communications Cable.

- The Plenum cable is (UL and cUL) TYPE OFNP
- The Riser cable is (UL and cUL) TYPE OFNR

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22° to 140°F (-30°C to 60°C)

Storage Temperature: -40° to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: 4.34 lb/ft (5.88 N/mm) (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Cable Jacket: UV Stabilized Black

Buffer tubes and fibers are identified with standard color coding.

LazrSPEED 550 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 006A XPBK	6	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016873
5125 012A XPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760014837
5125 024A XPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016881
5125 036A XPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016899
5125 048A XPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016907
5125 072A XPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760016915
5125 084A XPBK	84	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058156
5125 096A XPBK	96	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058164
5125 144A XPBK	144	0.71 in (18.0 mm)	228 lbs/kft (340 kg/km)	760058172

LazrSPEED 300 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 006A ZPBK	6	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016808
5125 012A ZPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016816
5125 024A ZPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016824
5125 036A ZPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016832
5125 048A ZPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760012385
5125 072A ZPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760012401
5125 084A ZPBK	84	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058123
5125 096A ZPBK	96	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058131
5125 144A ZPBK	144	0.71 in (18.0 mm)	228 lbs/kft (340 kg/km)	760058149

LazrSPEED 150 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 006A HPBK	6	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016717
5125 012A HPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016725
5125 024A HPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016733
5125 036A HPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016741
5125 048A HPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016758
5125 072A HPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760016766

Indoor/
Outdoor
Loose Tube

TeraSPEED Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 006A WPBK	6	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016550
5125 012A WPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016568
5125 024A WPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016576
5125 036A WPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016584
5125 048A WPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760012229
5125 072A WPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760012393
5125 084A WPBK	84	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058065
5125 096A WPBK	96	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058073
5125 144A WPBK	144	0.71 in (18.0 mm)	228 lbs/kft (340 kg/km)	760058081



OptiSPEED Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 006A MPBK	6	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016626
5125 012A MPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016634
5125 024A MPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016642
5125 036A MPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016659
5125 048A MPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016667
5125 072A MPBK	72	0.46 in (10.8 mm)	92 lbs/kft (137 kg/km)	760016675
5125 084A MPBK	84	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058099
5125 096A MPBK	96	0.54 in (13.8 mm)	129 lbs/kft (193 kg/km)	760058107
5125 144A MPBK	144	0.71 in (18.0 mm)	228 lbs/kft (340 kg/km)	760058115

LazrSPEED 300 Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 288A ZRBK	288	0.92 in (23.4 mm)	294 lbs/kft (438 kg/km)	760025403

LazrSPEED 150 Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 048A HRBK	48	0.49 in (12.6 mm)	99 lbs/kft (143 kg/km)	760015610
5124 096A HRBK	96	0.62 in (15.7 mm)	149 lbs/kft (222 kg/km)	760015628
5124 144A HRBK	144	0.78 in (19.8 mm)	241 lbs/kft (359 kg/km)	760015602

TeraSPEED Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 006A WRBK	6	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760004093
5124 012A WRBK	12	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760004101
5124 024A WRBK	24	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760004119
5124 036A WRBK	36	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760004127
5124 048A WRBK	48	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760004135
5124 072A WRBK	72	0.53 in (13.6 mm)	112 lbs/kft (167 kg/km)	760004143
5124 096A WRBK	96	0.62 in (15.7 mm)	149 lbs/kft (222 kg/km)	760004150
5124 144A WRBK	144	0.78 in (19.8 mm)	241 lbs/kft (359 kg/km)	760004168
5124 288A WRBK	288	0.92 in (23.4 mm)	294 lbs/kft (438 kg/km)	760004176

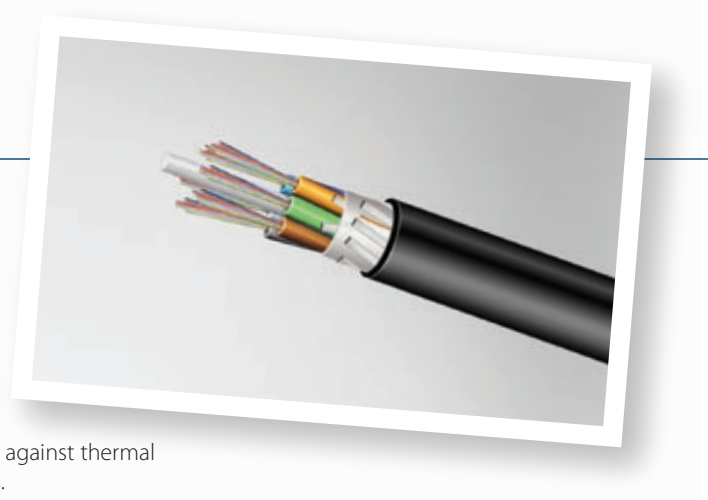
OptiSPEED Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 006A MRBK	6	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	700191430
5124 012A MRBK	12	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	700191448
5124 024A MRBK	24	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	700191455
5124 036A MRBK	36	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	700191463
5124 048A MRBK	48	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	700191471
5124 072A MRBK	72	0.53 in (13.6 mm)	112 lbs/kft (167 kg/km)	700191489
5124 096A MRBK	96	0.62 in (15.7 mm)	149 lbs/kft (222 kg/km)	700191497
5124 144A MRBK	144	0.78 in (19.8 mm)	241 lbs/kft (359 kg/km)	700191505
5124 288A MRBK	288	0.92 in (23.4 mm)	294 lbs/kft (438 kg/km)	700191513

Indoor/
Outdoor
Loose Tube

Composite Indoor/ Outdoor Loose Tube Cable

The Plenum-Rated and Riser-Rated Indoor/Outdoor Stranded Loose Tube Dielectric Cable allows for connectivity ease and superior mid-span accessibility. The cable is designed to endure the rigors of outdoor use, but can also be run directly in plenum airspace or riser to eliminate a splice point at the building entrance. The basic construction utilizes standard 3.0 mm gel-filled (5124 Series) or dry-block (5125 Series) buffer tubes which contain up to 12 optical fibers. Buffer tubes are stranded around a rigid fiberglass central strength member for protection against thermal expansion and contraction at operational temperature extremes.



A fluoropolymer thermoplastic material is used for the outer jacket and buffer tubes to provide excellent petrochemical resistance, flame propagation, and smoke generation properties that exceeds any similar cable design on the market today. These cables are designed for installation loads up to 600 lbs (2700 N) and long term loads up to 180 lbs (800 N).

All cables meet the mechanical and environmental requirements of Telcordia GR-20-CORE Issue 2 Generic Requirements for Optical Fiber and Optical Fiber Cable and ANSI/ICEA S-87-640 Standard for Optical Fiber Outside Plant Communications Cable.

- The Plenum cable is (UL and cUL) TYPE OFNP
- The Riser cable is (UL and cUL) TYPE OFNR

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Cable Jacket: UV Stabilized Black

Buffer tubes and fibers are identified with standard color coding.

Indoor/
Outdoor
Loose Tube

TeraSPEED/LazrSPEED 550 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 06/06A W/XPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017137
5125 12/12A W/XPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017145
5125 12/24A W/XPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017152
5125 24/24A W/XPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017160
5125 24/48A W/XPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017178
5125 36/36A W/XPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017186

TeraSPEED/LazrSPEED 300 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 06/06A W/ZPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017095
5125 12/24A W/ZPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017103
5125 36/36A W/ZPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017111

TeraSPEED/LazrSPEED 150 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 06/06A W/HPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017020
5125 12/12A W/HPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017038
5125 12/24A W/HPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017046
5125 24/24A W/HPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017053
5125 24/48A W/HPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017061
5125 36/36A W/HPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017079

TeraSPEED/LazrSPEED 300 Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 06/06A W/ZRBK	12	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008433
5124 12/12A W/ZRBK	24	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008441
5124 12/24A W/ZRBK	36	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008458
5124 24/24A W/ZRBK	48	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008466
5124 36/36A W/ZRBK	72	0.53 in (13.6 mm)	112 lbs/kft (167 kg/km)	760008474
5124 48/48A W/ZXBK	96	0.62 in (15.7 mm)	149 lbs/kft (222 kg/km)	760008482

TeraSPEED/LazrSPEED 150 Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 12/06A W/HRBK	18	0.49 in (12.6 mm)	99 lbs/kft (148 kg/km)	760026807

TeraSPEED/OptiSPEED Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 06/06A W/MPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016956
5125 12/12A W/MPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016964
5125 12/24A W/MPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016972
5125 24/24A W/MPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760016980
5125 24/48A W/MPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760016998
5125 36/36A W/MPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017004

TeraSPEED/OptiSPEED Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 06/06A W/MRBK	12	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008375
5124 12/12A W/MRBK	24	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008383
5124 12/24A W/MRBK	36	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008391
5124 24/24A W/MRBK	48	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008409
5124 36/24A W/MRBK	60	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760036897
5124 36/36A W/MRBK	72	0.53 in (13.6 mm)	112 lbs/kft (167 kg/km)	760008417
5124 48/48A W/MRBK	96	0.62 in (15.7 mm)	149 lbs/kft (222 kg/km)	760008425
5124 72/72A W/MRBK	144	0.78 in (19.8 mm)	241 lbs/kft (359 kg/km)	760061317
5124 96/72A W/MRBK	168	0.80 in (20.5 mm)	222 lbs/kft (331 kg/km)	760033233

Indoor/Outdoor Tight Buffered Cable

The indoor/outdoor distribution cable provides network performance for the applications of today and tomorrow that can be used in non-traditional building entrance facilities.

Features and Benefits:

- 900 micron tight buffered construction allows for direct termination eliminating the need for furcation which minimizes installation expense
- Utilizes water blocking technology which makes the cable suitable for the outside plant environment, with gel-free cable access
- Black, UV stabilized jacket is resistant to chemical, moisture, abrasion and sunlight and does not require additional protection in most installations
- All-dielectric construction eliminates the need for bonding and grounding
- Tested and qualified to GR-409 with GR-20, environmental limits and; ICEA-696 and ICEA-640 environmental limits. Meets requirements for tight buffered constructions and suitable of installation in true OSP environmental conditions
- The Plenum cable is (UL and cUL) TYPE OFNP
- The Riser cable is (UL and cUL) TYPE OFNR
- The LSZH cable is (UL and cUL) TYPE OFNR, OFN-LS, IEC60332-3C and IEC61034-2 compliant



Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 158°F (-30°C to 70°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: Exceeds 126 lbf/in (22 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds 4.34 lb-ft (5.88 N-m) (Test Method: FOTP – 25)

Flexing: Exceeds 100 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Core size: 50 micron

Fibers are identified with standard color coding.

Indoor/
Outdoor
Tight
Buffered

LazrSPEED 550 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 002A XPBK	2	Single Unit	0.17 in (4.2 mm)	10.7 lbs/kft (16 kg/km)	760037408
5101 004A XPBK	4	Single Unit	0.19 in (4.8 mm)	15.3 lbs/kft (23 kg/km)	760037416
5101 006A XPBK	6	Single Unit	0.21 in (5.4 mm)	18.7 lbs/kft (28 kg/km)	760036426
5101 008A XPBK	8	Single Unit	0.23 in (5.8 mm)	25.0 lbs/kft (37 kg/km)	760037424
5101 012A XPBK	12	Single Unit	0.27 in (6.9 mm)	36.0 lbs/kft (54 kg/km)	760037432
5101 018A XPBK	18	Single Unit	0.28 in (7.1 mm)	32.2 lbs/kft (48 kg/km)	760037440
5101 024A XPBK	24	Single Unit	0.31 in (7.9 mm)	41.4 lbs/kft (62 kg/km)	760037457
5104 036A XPBK	36	Multi-unit	0.67 in (17.1 mm)	174 lbs/kft (259 kg/km)	760038133
5104 048A XPBK	48	Multi-unit	0.74 in (18.9 mm)	222 lbs/kft (330 kg/km)	760038141
5104 060A XPBK	60	Multi-unit	0.85 in (21.5 mm)	287 lbs/kft (427 kg/km)	760038158
5104 072A XPBK	72	Multi-unit	0.93 in (23.7 mm)	357 lbs/kft (532 kg/km)	760038166
5104 096A XPBK	96	Multi-unit	1.11 in (28.2 mm)	542 lbs/kft (806 kg/km)	760038174
5104 144A XPBK	144	Multi-unit	1.19 in (30.3 mm)	558 lbs/kft (831 kg/km)	760038182

LazrSPEED 300 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 002A ZPBK	2	Single Unit	0.17 in (4.2 mm)	10.7 lbs/kft (16 kg/km)	760037341
5101 004A ZPBK	4	Single Unit	0.19 in (4.8 mm)	15.3 lbs/kft (23 kg/km)	760037358
5101 006A ZPBK	6	Single Unit	0.21 in (5.4 mm)	18.7 lbs/kft (28 kg/km)	760036418
5101 008A ZPBK	8	Single Unit	0.23 in (5.8 mm)	25.0 lbs/kft (37 kg/km)	760037366
5101 012A ZPBK	12	Single Unit	0.27 in (6.9 mm)	36.0 lbs/kft (54 kg/km)	760037374
5101 018A ZPBK	18	Single Unit	0.28 in (7.1 mm)	32.2 lbs/kft (48 kg/km)	760037382
5101 024A ZPBK	24	Single Unit	0.31 in (7.9 mm)	41.1 lbs/kft (62 kg/km)	760037390
5104 036A ZPBK	36	Multi-unit	0.67 in (17.1 mm)	174 lbs/kft (259 kg/km)	760038075
5104 048A ZPBK	48	Multi-unit	0.74 in (18.9 mm)	222 lbs/kft (330 kg/km)	760038083
5104 060A ZPBK	60	Multi-unit	0.85 in (21.5 mm)	287 lbs/kft (427 kg/km)	760038091
5104 072A ZPBK	72	Multi-unit	0.93 in (23.7 mm)	357 lbs/kft (532 kg/km)	760038109
5104 096A ZPBK	96	Multi-unit	1.11 in (28.2 mm)	542 lbs/kft (806 kg/km)	760038117
5104 144A ZPBK	144	Multi-unit	1.19 in (30.3 mm)	558 lbs/kft (831 kg/km)	760038125

LazrSPEED 150 Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 002A HPBK	2	Single Unit	0.17 in (4.2 mm)	10.7 lbs/kft (16 kg/km)	760037283
5101 004A HPBK	4	Single Unit	0.19 in (4.8 mm)	15.3 lbs/kft (23 kg/km)	760037291
5101 006A HPBK	6	Single Unit	0.21 in (5.4 mm)	18.7 lbs/kft (28 kg/km)	760036400
5101 008A HPBK	8	Single Unit	0.23 in (5.8 mm)	25.0 lbs/kft (37 kg/km)	760037309
5101 012A HPBK	12	Single Unit	0.27 in (6.9 mm)	36.0 lbs/kft (54 kg/km)	760037317
5101 018A HPBK	18	Single Unit	0.28 in (7.1 mm)	32.2 lbs/kft (48 kg/km)	760037325
5101 024A HPBK	24	Single Unit	0.31 in (7.9 mm)	41.4 lbs/kft (62 kg/km)	760037333
5104 036A HPBK	36	Multi-unit	0.67 in (17.1 mm)	174 lbs/kft (259 kg/km)	760038018
5104 048A HPBK	48	Multi-unit	0.74 in (18.9 mm)	222 lbs/kft (330 kg/km)	760038026
5104 060A HPBK	60	Multi-unit	0.85 in (21.5 mm)	287 lbs/kft (427 kg/km)	760038034
5104 072A HPBK	72	Multi-unit	0.93 in (23.7 mm)	357 lbs/kft (532 kg/km)	760038042
5104 096A HPBK	96	Multi-unit	1.11 in (28.2 mm)	542 lbs/kft (806 kg/km)	760038059
5104 144A HPBK	144	Multi-unit	1.19 in (30.3 mm)	558 lbs/kft (831 kg/km)	760038067

Indoor/
Outdoor
Tight
Buffered

TeraSPEED Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 002A WPBK	2	Single Unit	0.17 in (4.2 mm)	10.7 lbs/kft (16 kg/km)	760037168
5101 004A WPBK	4	Single Unit	0.19 in (4.8 mm)	15.3 lbs/kft (23 kg/km)	760037176
5101 006A WPBK	6	Single Unit	0.21 in (5.4 mm)	18.7 lbs/kft (28 kg/km)	760036384
5101 008A WPBK	8	Single Unit	0.23 in (5.8 mm)	25.0 lbs/kft (37 kg/km)	760037184
5101 012A WPBK	12	Single Unit	0.27 in (6.9 mm)	36.0 lbs/kft (54 kg/km)	760037192
5101 018A WPBK	18	Single Unit	0.28 in (7.1 mm)	32.2 lbs/kft (48 kg/km)	760037200
5101 024A WPBK	24	Single Unit	0.31 in (7.9 mm)	41.1 lbs/kft (62 kg/km)	760037218
5104 036A WPBK	36	Multi-unit	0.67 in (17.1 mm)	174 lbs/kft (259 kg/km)	760037895
5104 048A WPBK	48	Multi-unit	0.74 in (18.9 mm)	222 lbs/kft (330 kg/km)	760037903
5104 060A WPBK	60	Multi-unit	0.85 in (21.5 mm)	287 lbs/kft (427 kg/km)	760037911
5104 072A WPBK	72	Multi-unit	0.93 in (23.7 mm)	357 lbs/kft (532 kg/km)	760037929
5104 096A WPBK	96	Multi-unit	1.11 in (28.2 mm)	542 lbs/kft (806 kg/km)	760037937
5104 144A WPBK	144	Multi-unit	1.19 in (30.3 mm)	558 lbs/kft (831 kg/km)	760037945

OptiSPEED Plenum

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5101 002A MPBK	2	Single Unit	0.17 in (4.2 mm)	10.7 lbs/kft (16 kg/km)	760037226
5101 004A MPBK	4	Single Unit	0.19 in (4.8 mm)	15.3 lbs/kft (23 kg/km)	760037234
5101 006A MPBK	6	Single Unit	0.21 in (5.4 mm)	18.7 lbs/kft (28 kg/km)	760036392
5101 008A MPBK	8	Single Unit	0.23 in (5.8 mm)	25.0 lbs/kft (37 kg/km)	760037242
5101 012A MPBK	12	Single Unit	0.27 in (6.9 mm)	36.0 lbs/kft (54 kg/km)	760037259
5101 018A MPBK	18	Single Unit	0.28 in (7.1 mm)	32.2 lbs/kft (48 kg/km)	760037267
5101 024A MPBK	24	Single Unit	0.31 in (7.9 mm)	41.1 lbs/kft (62 kg/km)	760037275
5104 036A MPBK	36	Multi-unit	0.67 in (17.1 mm)	174 lbs/kft (259 kg/km)	760037952
5104 048A MPBK	48	Multi-unit	0.74 in (18.9 mm)	222 lbs/kft (330 kg/km)	760037960
5104 060A MPBK	60	Multi-unit	0.85 in (21.5 mm)	287 lbs/kft (427 kg/km)	760037978
5104 072A MPBK	72	Multi-unit	0.93 in (23.7 mm)	357 lbs/kft (532 kg/km)	760037986
5104 096A MPBK	96	Multi-unit	1.11 in (28.2 mm)	542 lbs/kft (806 kg/km)	760037994
5104 144A MPBK	144	Multi-unit	1.19 in (30.3 mm)	558 lbs/kft (831 kg/km)	760038000

Indoor/
Outdoor
Tight
Buffered

LazrSPEED 550 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5100 006A XRBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760039974
5100 008A XRBK	8	Single Unit	0.25 in (6.3 mm)	24 lbs/kft (35 kg/km)	760039982
5100 012A XRBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760006650
5103 024A XRBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760007476
5103 036A XRBK	36	Multi-unit	0.70 in (17.8 mm)	162.4 lbs/kft (241.6 kg/km)	760007484
5103 048A XRBK	48	Multi-unit	0.79 in (20.0 mm)	198 lbs/kft (295 kg/km)	760056978

LazrSPEED 300 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5100 004A ZRBK	4	Single Unit	0.20 in (5.1 mm)	14 lbs/kft (20 kg/km)	760046649
5100 006A ZRBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760039966
5100 012A ZRBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	700210982
5103 024A ZRBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	700210990
5103 036A ZRBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	700211006
5103 048A ZRBK	48	Multi-unit	0.79 in (20.0 mm)	198 lbs/kft (295 kg/km)	760010371
5103 072A ZRBK	72	Multi-unit	0.95 in (24.1 mm)	320 lbs/kft (477 kg/km)	760019612

LazrSPEED 150 Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5100 004A HRBK	4	Single Unit	0.20 in (5.1 mm)	14 lbs/kft (20 kg/km)	760046623
5100 006A HRBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760046631
5100 012A HRBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	700211014
5103 024A HRBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	700211022
5103 036A HRBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	700211030

TeraSPEED Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5100 006A WRBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760009753
5100 012A WRBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760004184
5100 024A WRBK	24	Single Unit	0.34 in (8.7 mm)	45.2 lbs/kft (67.3 kg/km)	760070276
5103 024A WRBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760004192
5103 036A WRBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760004200
5103 072A WRBK	72	Multi-unit	0.95 in (24.1 mm)	320.5 lbs/kft (477 kg/km)	760067595

OptiSPEED Riser

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5100 004A MRBK	4	Single Unit	0.20 in (5.1 mm)	14 lbs/kft (20 kg/km)	760005165
5100 012A MRBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	700211279
5103 024A MRBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	700211287
5103 036A MRBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	700211295
5100 006A MRBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760054973

LazrSPEED 550 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5102 012A XHBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760007492
5102 024A XHBK	24	Single Unit	0.34 in (8.7 mm)	45.2 lbs/kft (67.3 kg/km)	760066837
5105 024A XHBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760007500
5105 036A XHBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760007518
5105 072A XHBK	72	Multi-unit	0.94 in (23.9 mm)	309 lbs/kft (460 kg/km)	760032441

LazrSPEED 300 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5102 004A ZHBK	4	Single Unit	0.20 in (5.1 mm)	14 lbs/kft (20 kg/km)	760012005
5102 006A ZHBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760015289
5102 008A ZHBK	8	Single Unit	0.25 in (6.3 mm)	24 lbs/kft (35 kg/km)	760031674
5102 012A ZHBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760010119
5102 024A ZHBK	24	Single Unit	0.34 in (8.7 mm)	45.2 lbs/kft (67.3 kg/km)	760066829
5105 024A ZHBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760020560
5105 036A ZHBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760020578
5105 048A ZHBK	48	Multi-unit	0.79 in (20.0 mm)	198 lbs/kft (295 kg/km)	760012013

LazrSPEED 150 LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5102 004A HHBK	4	Single Unit	0.20 in (5.1 mm)	14 lbs/kft (20 kg/km)	760035782
5102 006A HHBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760035790
5102 012A HHBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760002170
5102 024A HHBK	24	Single Unit	0.34 in (8.7 mm)	45.2 lbs/kft (67.3 kg/km)	760066811
5105 024A HHBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760002188
5105 036A HHBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760002196

TeraSPEED LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5102 004A WHBK	4	Single Unit	0.20 in (5.1 mm)	13.5 lbs/kft (20.1 kg/km)	760068718
5102 006A WHBK	6	Single Unit	0.22 in (5.5 mm)	18 lbs/kft (26 kg/km)	760011049
5102 012A WHBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760004218
5102 024A MHBK	24	Single Unit	0.34 in (8.7 mm)	45.2 lbs/kft (67.3 kg/km)	760066795
5105 024A WHBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760004226
5105 036A WHBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760004234
5105 048A WHBK	48	Multi-unit	0.80 in (20.2 mm)	206.6 lbs/kft (307.4 kg/km)	760068726

OptiSPEED LSZH

Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5102 012A MHBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760010390
5102 024A MHBK	24	Single Unit	0.34 in (8.7 mm)	45.2 lbs/kft (67.3 kg/km)	760066803
5105 024A MHBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760008543
5105 036A MHBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760008519

Indoor/
Outdoor
Tight
Buffered

Composite Indoor/ Outdoor Tight Buffered Cable



TeraSPEED/LazrSPEED 300 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5125 06/06A W/ZPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017095
5125 12/24A W/ZPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017103
5125 36/36A W/ZPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017111

TeraSPEED/LazrSPEED 150 Plenum

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5104 12/24A W/HPBK	36	0.67 in (16.9 mm)	174 lbs/kft (259 kg/km)	760055970
5125 06/06A W/HPBK	12	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017020
5125 12/12A W/HPBK	24	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017038
5125 12/24A W/HPBK	36	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017046
5125 24/24A W/HPBK	48	0.42 in (10.8 mm)	76 lbs/kft (114 kg/km)	760017053
5125 24/48A W/HPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017061
5125 36/36A W/HPBK	72	0.46 in (11.8 mm)	92 lbs/kft (137 kg/km)	760017079

TeraSPEED/LazrSPEED 300 Riser

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5124 06/06A W/ZRBK	12	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008433
5124 12/12A W/ZRBK	24	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008441
5124 12/24A W/ZRBK	36	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008458
5124 24/24A W/ZRBK	48	0.49 in (12.6 mm)	96 lbs/kft (143 kg/km)	760008466
5124 36/36A W/ZRBK	72	0.53 in (13.6 mm)	112 lbs/kft (167 kg/km)	760008474
5124 48/48A W/ZXBK	96	0.62 in (15.7 mm)	149 lbs/kft (222 kg/km)	760008482

TeraSPEED/LazrSPEED 300 LSZH

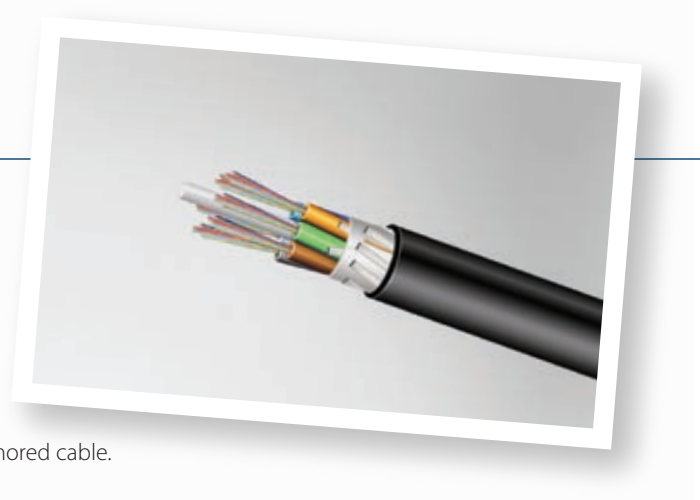
Product Number	Fiber Count	Construction Type	Outside Diameter	Weight	Material ID
5102 06/06A W/ZHBK	12	Single Unit	0.28 in (7.1 mm)	31 lbs/kft (47 kg/km)	760025411
5105 12/12A W/ZHBK	24	Multi-unit	0.67 in (16.9 mm)	133 lbs/kft (198 kg/km)	760025429
5105 18/18A W/ZHBK	36	Multi-unit	0.73 in (18.5 mm)	155 lbs/kft (231 kg/km)	760055442
5105 36/36A W/ZHBK	72	Multi-unit	0.94 in (23.5 mm)	309 lbs/kft (460 kg/km)	760055111

Indoor/
Outdoor
Tight
Buffered

Outdoor Loose Tube Cables

The Loose Tube Dielectric cable is constructed with industry standard 3 mm gel-filled, buffer tubes, stranded around a central strength member.

The Loose Tube Metallic cable is armored with a corrugated polymer coated steel tape, and constructed with industry standard 3 mm gel-filled, buffer tubes, stranded around a central strength member. The armor layer provides added crush protection and meets the Telcordia requirements for superior armored cable.



The buffer tubes are compatible with standard hardware, cable routing and fan-out kits. The cable core is water blocked with dry water blocking materials, making access and handling of individual tubes easier and craft-friendly. These cables are designed for point-to-point applications as well as mid-span access, and provide a high-level of protection for fiber installed in the outside plant environment.

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Buffer tubes and fibers are identified with standard color coding.

LazrSPEED 550 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 004A XXBK	4	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007351
5024 006A XXBK	6	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007369
5024 012A XXBK	12	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007377
5024 018A XXBK	18	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007385
5024 024A XXBK	24	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007393
5024 036A XXBK	36	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007401
5024 048A XXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760007419
5024 072A XXBK	72	0.49 in (12.6 mm)	74 lbs/kft (110 kg/km)	760007427
5024 096A XXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760007435
5024 144A XXBK	144	0.74 in (18.8 mm)	160 lbs/kft (238 kg/km)	760007443
5024 288A XXBK	288	0.86 in (21.8 mm)	196 lbs/kft (282 kg/km)	760007450

Outdoor
Loose
Tube

LazrSPEED 300 Dielectric

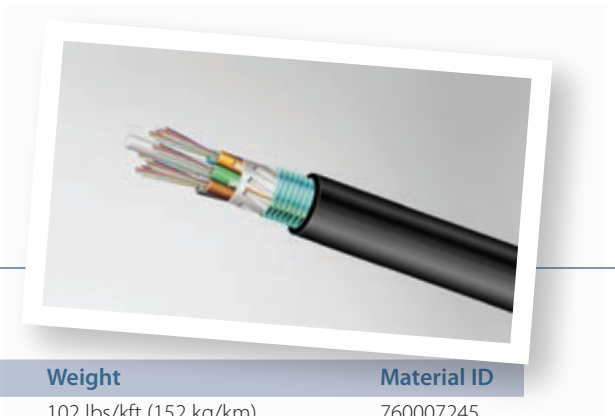
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 004A ZXBK	4	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002782
5024 006A ZXBK	6	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002790
5024 012A ZXBK	12	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002808
5024 018A ZXBK	18	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002816
5024 024A ZXBK	24	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002824
5024 036A ZXBK	36	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002832
5024 048A ZXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002840
5024 072A ZXBK	72	0.49 in (12.6 mm)	74 lbs/kft (110 kg/km)	760002857
5024 096A ZXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760002865
5024 144A ZXBK	144	0.74 in (18.8 mm)	160 lbs/kft (238 kg/km)	760002873
5024 196A ZXBK	196	0.74 in (18.8 mm)	145 lbs/kft (216 kg/km)	760025494
5024 288A ZXBK	288	0.86 in (21.8 mm)	196 lbs/kft (282 kg/km)	760002881

TeraSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 004A WXBK	4	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002576
5024 006A WXBK	6	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002584
5024 012A WXBK	12	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002592
5024 018A WXBK	18	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002600
5024 024A WXBK	24	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002618
5024 036A WXBK	36	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002626
5024 048A WXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002634
5024 072A WXBK	72	0.49 in (12.6 mm)	74 lbs/kft (110 kg/km)	760002642
5024 084A WXBK	84	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760055392
5024 096A WXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760002659
5024 108A WXBK	108	0.66 in (16.7 mm)	127lbs/kft (189 kg/km)	760055400
5024 120A WXBK	120	0.66 in (16.7 mm)	127lbs/kft (189 kg/km)	760055418
5024 132A WXBK	132	0.74 in (18.8 mm)	160 lbs/kft (238 kg/km)	760055426
5024 144A WXBK	144	0.74 in (18.8 mm)	160 lbs/kft (238 kg/km)	760002667
5024 288A WXBK	288	0.86 in (21.8 mm)	196 lbs/kft (292 kg/km)	760002675

OptiSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 004A MXBK	4	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002683
5024 006A MXBK	6	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002691
5024 012A MXBK	12	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002709
5024 018A MXBK	18	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002717
5024 024A MXBK	24	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002725
5024 036A MXBK	36	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002733
5024 048A MXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760002741
5024 072A MXBK	72	0.49 in (12.6 mm)	74 lbs/kft (110 kg/km)	760002758
5024 096A MXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760002766
5024 288A MXBK	288	0.86 in (21.8 mm)	196 lbs/kft (292 kg/km)	760002774



LazrSPEED 550 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 004A XXBK	4	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007245
5023 006A XXBK	6	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007252
5023 012A XXBK	12	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007260
5023 018A XXBK	18	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007278
5023 024A XXBK	24	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007286
5023 036A XXBK	36	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007294
5023 048A XXBK	48	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760007302
5023 072A XXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760007310
5023 096A XXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760007328
5023 144A XXBK	144	0.80 in (20.3 mm)	226 lbs/kft (337 kg/km)	760007336
5023 288A XXBK	288	0.91 in (23.3 mm)	272 lbs/kft (405 kg/km)	760007344

LazrSPEED 300 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 004A ZXBK	4	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002469
5023 006A ZXBK	6	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002477
5023 012A ZXBK	12	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002485
5023 018A ZXBK	18	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002493
5023 024A ZXBK	24	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002501
5023 036A ZXBK	36	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002519
5023 048A ZXBK	48	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002527
5023 072A ZXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760002535
5023 096A ZXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760002543
5023 144A ZXBK	144	0.80 in (20.3 mm)	226 lbs/kft (337 kg/km)	760002550
5023 288A ZXBK	288	0.91 in (23.3 mm)	272 lbs/kft (405 kg/km)	760002568

Outdoor
Loose
Tube

LazrSPEED 150 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 096A HXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760055103

TeraSPEED Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 004A WXBK	4	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002253
5023 006A WXBK	6	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002261
5023 008A WXBK	8	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760055020
5023 012A WXBK	12	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002279
5023 016A WXBK	16	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760017939
5023 018A WXBK	18	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002287
5023 024A WXBK	24	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002295
5023 032A WXBK	32	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760017947
5023 036A WXBK	36	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002303
5023 048A WXBK	48	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002311
5023 072A WXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760002329
5023 096A WXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760002337
5023 144A WXBK	144	0.80 in (20.3 mm)	226 lbs/kft (337 kg/km)	760002345
5023 288A WXBK	288	0.91 in (23.3 mm)	272 lbs/kft (405 kg/km)	760002352

OptiSPEED Metallic

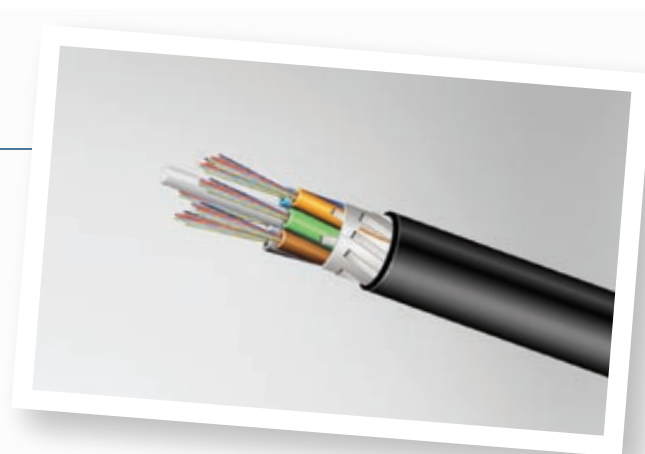
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 004A MXBK	4	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002360
5023 006A MXBK	6	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002378
5023 012A MXBK	12	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002386
5023 018A MXBK	18	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002394
5023 024A MXBK	24	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002402
5023 036A MXBK	36	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002410
5023 048A MXBK	48	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760002428
5023 072A MXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760002436
5023 096A MXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760002444
5023 144A MXBK	144	0.80 in (20.3 mm)	226 lbs/kft (337 kg/km)	760000893
5023 288A MXBK	288	0.91 in (23.3 mm)	272 lbs/kft (405 kg/km)	760002451

Outdoor
Loose
Tube

Composite Outdoor Loose Tube Cable

The Dielectric Stranded Loose Tube Cable is constructed with industry standard 3 mm buffer tubes, stranded around a central strength member.

The Metallic Stranded Loose Tube Cable is armored with a corrugated, polymer coated steel tape and constructed with industry standard 3 mm buffer tubes, stranded around a central strength member. The armor layer provides added crush protection and meets the Telcordia requirements for superior armored cable.



The buffer tubes are compatible with standard hardware, cable routing and fan-out kits. The individual gel-filled tubes with water-blocking binders are placed between the central strength member and the tubes; then a water-blocking tape is formed around the core. These cables provide a high level of protection for fiber installed in the outside plant environment where mid-span access and cable management is required.

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Cable Jacket: UV Stabilized Black

Fibers are identified with standard color coding.

TeraSPEED/LazrSPEED 550 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 12/12A W/XXBK	24	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760036046
5024 24/24A W/XXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760042242

TeraSPEED/LazrSPEED 300 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 12/12A W/ZXBK	24	0.49 in (12.6 mm)	61 lbs/kft (91 kg/km)	760008722
5024 48/48A W/ZXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760035857
5024 48/72A W/ZXBK	120	0.66 in (16.7 mm)	127 lbs/kft (189 kg/km)	760035840

TeraSPEED/LazrSPEED 150 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 12/24A W/HXBK	36	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760055962
5024 48/48A W/HXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760036038

Outdoor
Loose
Tube

TeraSPEED/OptiSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5024 12/12A W/MXBK	24	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760060970
5024 24/12A W/MXBK	36	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760039354
5024 24/24A W/WXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760047845
5024 72/24A W/WXBK	96	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760053132
5024 144/144A W/WXBK	288	0.86 in (21.8 mm)	196 lbs/kft (292 kg/km)	760046581
5024 36/12A W/MXBK	48	0.46 in (11.6 mm)	61 lbs/kft (91 kg/km)	760043513
5024 36/48A W/MXBK	84	0.57 in (14.6 mm)	99 lbs/kft (148 kg/km)	760008490

TeraSPEED/LazrSPEED 550 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 48/24A W/ZXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760048710

TeraSPEED/LazrSPEED 300 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 24/24A W/ZXBK	48	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760032813
5023 48/24A W/ZXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760048702
5023 48/48A W/ZXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760035873
5023 72/24A W/ZXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760042457
5023 48/72A W/ZXBK	120	0.71 in (18.2 mm)	185 lbs/kft (276 kg/km)	760035865

TeraSPEED/LazrSPEED 150 Metallic

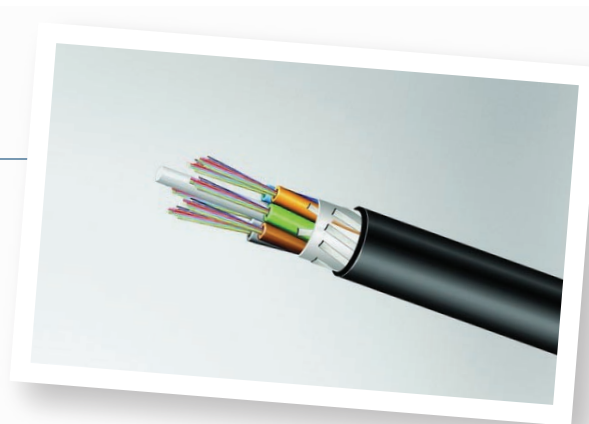
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 48/24A W/HXBK	72	0.55 in (14.0 mm)	118 lbs/kft (176 kg/km)	760047787
5023 48/48A W/HXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760036020
5023 72/24A W/HXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760047761
5023 72/48A W/HXBK	120	0.71 in (18.2 mm)	185 lbs/kft (276 kg/km)	760047779

TeraSPEED/OptiSPEED Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5023 12/12A W/MXBK	24	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760043448
5023 24/24A W/MXBK	48	0.51 in (13.1 mm)	102 lbs/kft (152 kg/km)	760034637
5023 48/48A W/MXBK	96	0.63 in (16.1 mm)	151 lbs/kft (225 kg/km)	760038299

Outdoor Loose Tube All Dry Cable

SYSTIMAX® all dry outside plant stranded loose tube cables deliver the same proven quality and performance offered in all SYSTIMAX cabling solutions. The armored and all-dielectric designs are suitable for direct buried, aerial and conduit applications. The construction features the use of dry water blocking elements and reduced diameter buffer tubes, yielding a light weight, smaller cable. The result is a fiber optic cable that is an ideal transmission medium for the outside plant environment. These designs are available with any of the high performance SYSTIMAX fiber types, including TeraSPEED™ Zero Water Peak singlemode fiber and the LazrSPEED® multimode fibers. The standard jacket material is Medium Density Polyethylene (MDPE), with an optional High Density Polyethylene (HDPE) jacket available. Additionally, the fiber and buffer tubes are color coded for easy identification.



Features and Benefits (Indoor/Outdoor and Premise):

All dry construction removes filling gels and flooding compounds from the cable

- significantly reduces cable preparation time
- eliminates the need for solvents and other consumables during cable preparation
- improves cleanliness of work environment
- provides full water blocking protection for outside plant applications
- reduces cable weight

Reduced diameter buffer tubes utilized in the cable constructions

- reduces overall cable diameter, allowing better duct utilization
- allows for tighter cable bend radius, loaded and unloaded
- compatible with all SYSTIMAX apparatus

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Buffer tubes and fibers are identified with standard color coding.

LazrSPEED 550 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5028 002A XXBK	2	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054262
5028 006A XXBK	6	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054270
5028 012A XXBK	12	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054288
5028 024A XXBK	24	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054296
5028 036A XXBK	36	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054304
5028 048A XXBK	48	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054312
5028 060A XXBK	60	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054320
5028 072A XXBK	72	0.43 in (10.9 mm)	52 lbs/kft (78 kg/km)	760054338
5028 096A XXBK	96	0.49 in (12.5 mm)	68 lbs/kft (102 kg/km)	760054346
5028 144A XXBK	144	0.63 in (16.1 mm)	112 lbs/kft (167 kg/km)	760054353
5028 288A XXBK	288	0.73 in (18.5 mm)	127 lbs/kft (190 kg/km)	760054361

Outdoor
Loose
Tube

LazrSPEED 300 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5028 002A ZXBK	2	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054155
5028 006A ZXBK	6	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054163
5028 012A ZXBK	12	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054171
5028 024A ZXBK	24	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054189
5028 036A ZXBK	36	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054197
5028 048A ZXBK	48	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054205
5028 060A ZXBK	60	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054213
5028 072A ZXBK	72	0.43 in (10.9 mm)	52 lbs/kft (78 kg/km)	760054221
5028 096A ZXBK	96	0.49 in (12.5 mm)	68 lbs/kft (102 kg/km)	760054239
5028 144A ZXBK	144	0.63 in (16.1 mm)	112 lbs/kft (167 kg/km)	760054247
5028 288A ZXBK	288	0.73 in (18.5 mm)	127 lbs/kft (190 kg/km)	760054254

LazrSPEED 150 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5028 002A HXBK	2	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054049
5028 006A HXBK	6	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054056
5028 012A HXBK	12	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054064
5028 024A HXBK	24	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054072
5028 036A HXBK	36	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054080
5028 048A HXBK	48	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054098
5028 060A HXBK	60	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760054106
5028 072A HXBK	72	0.43 in (10.9 mm)	52 lbs/kft (78 kg/km)	760054114
5028 096A HXBK	96	0.49 in (12.5 mm)	68 lbs/kft (102 kg/km)	760054122
5028 144A HXBK	144	0.63 in (16.1 mm)	112 lbs/kft (167 kg/km)	760054130
5028 288A HXBK	288	0.73 in (18.5 mm)	127 lbs/kft (190 kg/km)	760054148

TeraSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5028 002A WXBK	2	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053827
5028 006A WXBK	6	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053835
5028 012A WXBK	12	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053843
5028 024A WXBK	24	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053850
5028 036A WXBK	36	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053868
5028 048A WXBK	48	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053876
5028 060A WXBK	60	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053884
5028 072A WXBK	72	0.43 in (10.9 mm)	52 lbs/kft (78 kg/km)	760053892
5028 096A WXBK	96	0.49 in (12.5 mm)	68 lbs/kft (102 kg/km)	760053900
5028 144A WXBK	144	0.63 in (16.1 mm)	112 lbs/kft (167 kg/km)	760053918
5028 288A WXBK	288	0.73 in (18.5 mm)	127 lbs/kft (190 kg/km)	760053926



OptiSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5028 002A MXBK	2	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053934
5028 006A MXBK	6	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053942
5028 012A MXBK	12	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053959
5028 024A MXBK	24	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053967
5028 036A MXBK	36	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053975
5028 048A MXBK	48	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053983
5028 060A MXBK	60	0.41 in (10.5 mm)	48 lbs/kft (71 kg/km)	760053991
5028 072A MXBK	72	0.43 in (10.9 mm)	52 lbs/kft (78 kg/km)	760054007
5028 096A MXBK	96	0.49 in (12.5 mm)	68 lbs/kft (102 kg/km)	760054015
5028 144A MXBK	144	0.63 in (16.1 mm)	112 lbs/kft (167 kg/km)	760054023
5028 288A MXBK	288	0.73 in (18.5 mm)	127 lbs/kft (190 kg/km)	760054031



OptiSPEED Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5027 002A MXBK	2	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053371
5027 006A MXBK	6	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053389
5027 012A MXBK	12	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053397
5027 024A MXBK	24	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053405
5027 036A MXBK	36	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053413
5027 048A MXBK	48	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053421
5027 060A MXBK	60	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053439
5027 072A MXBK	72	0.49 in (12.4 mm)	91 lbs/kft (135 kg/km)	760053447
5027 096A MXBK	96	0.55 in (13.9 mm)	113 lbs/kft (168 kg/km)	760053454
5027 144A MXBK	144	0.69 in (17.6 mm)	166 lbs/kft (248 kg/km)	760053470
5027 288A MXBK	288	0.78 in (20.0 mm)	190 lbs/kft (284 kg/km)	760053488

Outdoor
Loose
Tube

LazrSPEED 550 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5027 002A XXBK	2	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053710
5027 006A XXBK	6	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053728
5027 012A XXBK	12	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053736
5027 024A XXBK	24	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053744
5027 036A XXBK	36	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053751
5027 048A XXBK	48	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053769
5027 060A XXBK	60	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053777
5027 072A XXBK	72	0.49 in (12.4 mm)	91 lbs/kft (135 kg/km)	760053785
5027 096A XXBK	96	0.55 in (13.9 mm)	113 lbs/kft (168 kg/km)	760053793
5027 144A XXBK	144	0.69 in (17.6 mm)	166 lbs/kft (248 kg/km)	760053801
5027 288A XXBK	288	0.78 in (20.0 mm)	190 lbs/kft (284 kg/km)	760053819

LazrSPEED 300 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5027 002A ZXBK	2	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053603
5027 006A ZXBK	6	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053611
5027 012A ZXBK	12	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053629
5027 024A ZXBK	24	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053637
5027 036A ZXBK	36	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053645
5027 048A ZXBK	48	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053652
5027 060A ZXBK	60	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053660
5027 072A ZXBK	72	0.49 in (12.4 mm)	91 lbs/kft (135 kg/km)	760053678
5027 096A ZXBK	96	0.55 in (13.9 mm)	113 lbs/kft (169 kg/km)	760053686
5027 144A ZXBK	144	0.69 in (17.6 mm)	166 lbs/kft (248 kg/km)	760053694

LazrSPEED 150 Metallic

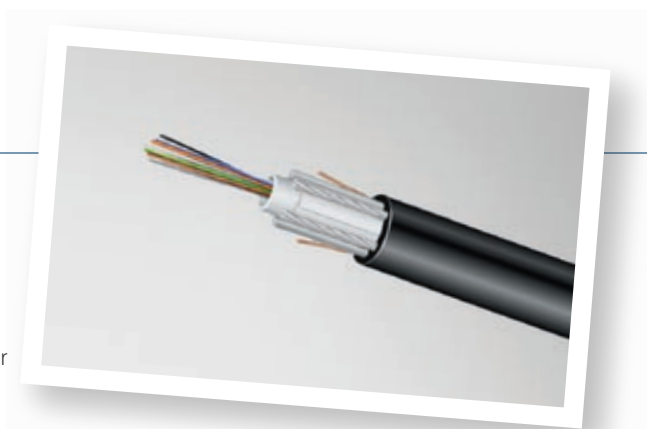
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5027 288A ZXBK	288	0.78 in (20.0 mm)	190 lbs/kft (284 kg/km)	760053702
5027 002A HXBK	2	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053496
5027 006A HXBK	6	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053504
5027 012A HXBK	12	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053512
5027 024A HXBK	24	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053520
5027 036A HXBK	36	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053538
5027 048A HXBK	48	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053546
5027 060A HXBK	60	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053553
5027 072A HXBK	72	0.49 in (12.4 mm)	91 lbs/kft (135 kg/km)	760053561
5027 096A HXBK	96	0.55 in (13.9 mm)	113 lbs/kft (168 kg/km)	760053579
5027 144A HXBK	144	0.69 in (17.6 mm)	166 lbs/kft (248 kg/km)	760053587
5027 288A HXBK	288	0.78 in (20.0 mm)	190 lbs/kft (284 kg/km)	760053595

TeraSPEED Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5027 002A WXBK	2	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053264
5027 006A WXBK	6	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053272
5027 012A WXBK	12	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053280
5027 024A WXBK	24	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053298
5027 036A WXBK	36	0.47 in (12.0 mm)	86 lbs/kft (128 kg/km)	760053306
5027 048A WXBK	48	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760053314
5027 060A WXBK	60	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760053322
5027 072A WXBK	72	0.49 in (12.4 mm)	91 lbs/kft (135 kg/km)	760053330
5027 096A WXBK	96	0.55 in (13.9 mm)	113 lbs/kft (168 kg/km)	760053348
5027 144A WXBK	144	0.69 in (17.6 mm)	166 lbs/kft (248 kg/km)	760053355
5027 288A WXBK	288	0.78 in (20.0 mm)	190 lbs/kft (284 kg/km)	760053363

Outdoor Central Tube Cable

The Dielectric and Metallic Sheath Cable can be used in underground conduit, direct buried or aerial applications. The cable is designed for easy mid-sheath entry. The fibers are separated into binder groups inside a central tube gel-filled with water-blocking compound. The steel armor provides rodent and lightning protection. The sheath jacket material is medium-density polyethylene for maximum environmental protection and is petrochemical stable.



Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Buffer tubes and fibers are identified with standard color coding.

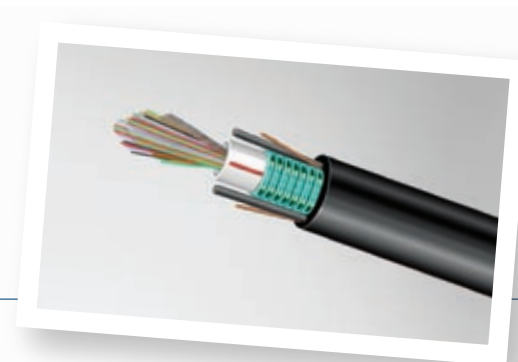
LazrSPEED 300 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5022 006A ZXBK	6	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700012347
5022 012A ZXBK	12	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700012354
5022 024A ZXBK	24	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700012362
5022 036A ZXBK	36	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	700219116
5022 048A ZXBK	48	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	700012370
5022 096A ZXBK	96	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	700012388

LazrSPEED 150 Dielectric

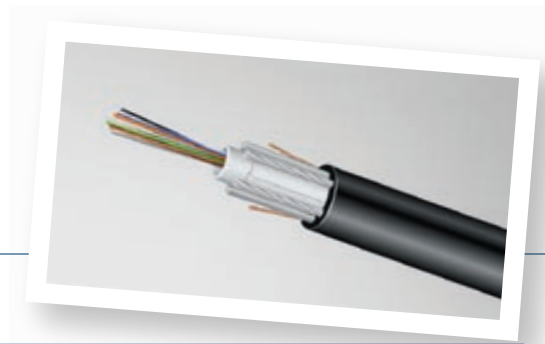
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5022 016A HXBK	16	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760027771

Outdoor
Central
Tube



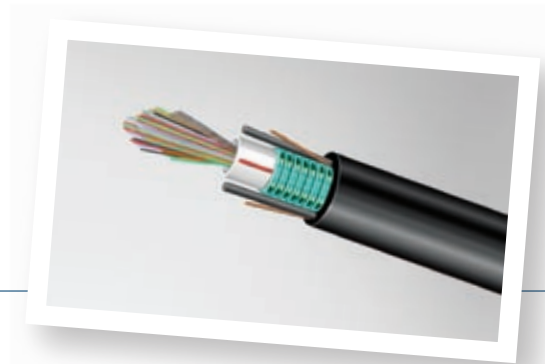
LazrSPEED 150 Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5021 006A HXBK	6	0.43 in (11 mm)	93 lbs/kft (138 kg/km)	760015800
5021 012A HXBK	12	0.43 in (11 mm)	93 lbs/kft (138 kg/km)	760017202
5021 024A HXBK	24	0.43 in (11 mm)	93 lbs/kft (138 kg/km)	760021758



TeraSPEED Dielectric

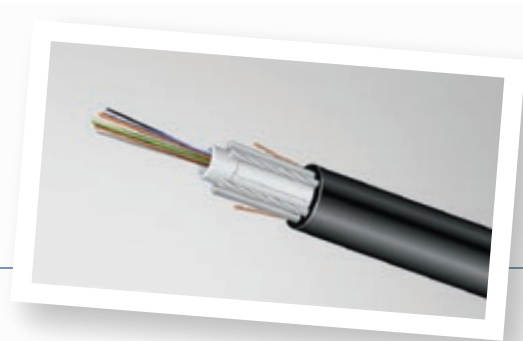
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5022 004A WXBK	4	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760004002
5022 006A WXBK	6	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760004010
5022 008A WXBK	8	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760004028
5022 012A WXBK	12	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760004036
5022 061A WXBK	16	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760027789
5022 024A WXBK	24	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760004044
5022 036A WXBK	36	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760004051
5022 048A WXBK	48	0.49 in (12.1 mm)	86 lbs/kft (128 kg/km)	760004069
5022 072A WXBK	72	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	760004077
5022 096A WXBK	96	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	760004085



TeraSPEED Metallic

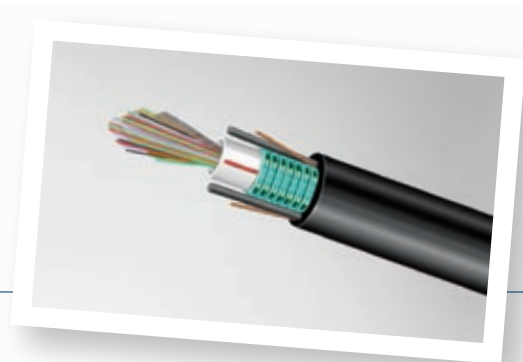
Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5021 004A WXBK	4	0.43 in (11.0 mm)	93 lbs/kft (138 kg/km)	760003913
5021 006A WXBK	6	0.43 in (11.0 mm)	93 lbs/kft (138 kg/km)	760003921
5021 008A WXBK	8	0.43 in (11.0 mm)	93 lbs/kft (138 kg/km)	760003939
5021 012A WXBK	12	0.43 in (11.0 mm)	93 lbs/kft (138 kg/km)	760003947
5021 024A WXBK	24	0.43 in (11.0 mm)	93 lbs/kft (138 kg/km)	760003954
5021 036A WXBK	36	0.51 in (13.0 mm)	121 lbs/kft (181 kg/km)	760003962
5021 048A WXBK	48	0.51 in (13.0 mm)	121 lbs/kft (181 kg/km)	760003970
5021 072A WXBK	72	0.59 in (15.0 mm)	152 lbs/kft (226 kg/km)	760003988
5021 096A WXBK	96	0.59 in (15.0 mm)	152 lbs/kft (226 kg/km)	760003996
5031 024A WXBK	24	0.43 in (11.0 mm)	93 lbs/kft (138 kg/km)	760058461

Outdoor
Central
Tube



OptiSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5022 004A MXBK	4	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700010739
5022 006A MXBK	6	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700010721
5022 008A MXBK	8	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700010713
5022 012A MXBK	12	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700010705
5022 018A MXBK	18	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700010697
5022 024A MXBK	24	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	700010689
5022 036A MXBK	36	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	700010671
5022 048A MXBK	48	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	700010663
5022 060A MXBK	60	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	700010655
5022 072A MXBK	72	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	700010648
5022 096A MXBK	96	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	700010630



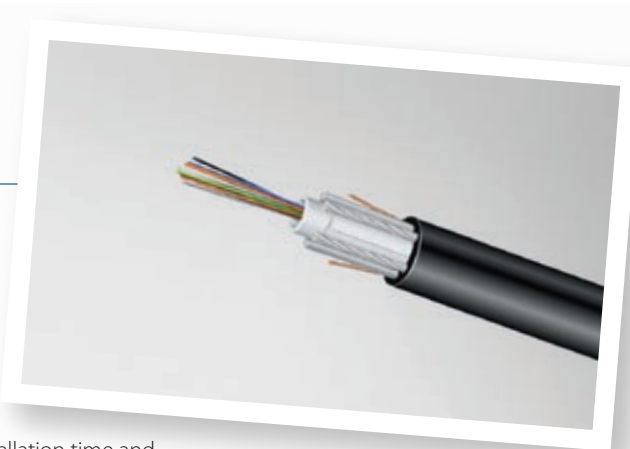
OptiSPEED Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5021 004A MXBK	4	0.43 in (11.0 mm)	92 lbs/kft (137 kg/m)	700010622
5021 006A MXBK	6	0.43 in (11.0 mm)	92 lbs/kft (137 kg/m)	700010614
5021 008A MXBK	8	0.43 in (11.0 mm)	92 lbs/kft (137 kg/m)	700010606
5021 012A MXBK	12	0.43 in (11.0 mm)	92 lbs/kft (137 kg/m)	700010598
5021 024A MXBK	24	0.43 in (11.0 mm)	92 lbs/kft (137 kg/m)	700010580
5021 036A MXBK	36	0.51 in (13.0 mm)	92 lbs/kft (137 kg/m)	700010572
5021 048A MXBK	48	0.51 in (13.0 mm)	120 lbs/kft (179 kg/m)	700010564
5021 072A MXBK	72	0.59 in (15.0 mm)	151 lbs/kft (225 kg/m)	700010556
5021 096A MXBK	96	0.59 in (15.0 mm)	151 lbs/kft (225 kg/m)	700010549

Outdoor
Central
Tube

Composite Outdoor Central Tube Cable

The SYSTIMAX Composite Fiber Optic Outside Plant cable provides the ultimate in future proofing. This combination of fibers provides the benefits of a Zero Water Peak singlemode, and LazrSPEED Laser Optimized Multimode Fiber (LOMMF), the leading 10 Gbps (OM3) fiber, as well as OptiSPEED 62.5 micron multimode. The incorporation of both singlemode and multimode fibers under one jacket provides not only for seamless future migration should the need arise, but also for improved installation time and decreased installation expense. This central core composite cable is reinforced with aramid yarn for superior strength.



SYSTIMAX central gel-filled core cables comply with the Telcordia Generic Requirements for Optical Fiber and Optical Fiber Cable (GR-20-CORE), Section 6. These products also satisfy the requirements of ICEA S-87-640-1999, "Optical Fiber Outside Plant Communications Cable."

Environmental and Mechanical Specifications:

Operating Temperature: -40°F to 158°F (-40°C to 70°C) (Test Method: FOTP – 3)

Installation Temperature: -22°F to 140°F (-30°C to 60°C)

Storage Temperature: -40°F to 167°F (-40°C to 75°C)

Crush Resistance: 250 lbf/in (44 N/mm) (Test Method: FOTP – 41)

Impact Resistance: Exceeds (Test Method: FOTP – 25)

Flexing: Exceeds 25 cycles (Test Method: FOTP – 104)

Twist Bend: Exceeds (Test Method: FOTP – 85)

Physical Specifications:

Cable Jacket: UV Stabilized Black

Fibers are identified with standard color coding.

TeraSPEED/LazrSPEED 300 Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5022 06/06A W/ZXBK	12	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760008318
5022 06/12A W/ZXBK	18	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760008326
5022 12/12A W/ZXBK	24	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760008334
5022 12/24A W/ZXBK	36	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760008342
5022 24/24A W/ZXBK	48	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760008359
5022 36/36A W/ZXBK	72	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	760036541
5022 48/48A W/ZXBK	96	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	760008367

TeraSPEED/OptiSPEED Dielectric

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5022 06/06A W/MXBK	12	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760008250
5022 06/12A W/MXBK	18	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760008268
5022 12/12A W/MXBK	24	0.40 in (10.1 mm)	63 lbs/kft (94 kg/km)	760008276
5022 12/24A W/MXBK	36	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760008284
5022 12/36A W/MXBK	48	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760010140
5022 24/24A W/MXBK	48	0.47 in (12.1 mm)	86 lbs/kft (128 kg/km)	760008292
5022 24/72A W/MXBK	96	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	760047852
5022 48/48A W/MXBK	96	0.55 in (14.1 mm)	110 lbs/kft (164 kg/km)	760008300

Outdoor
Central
Tube



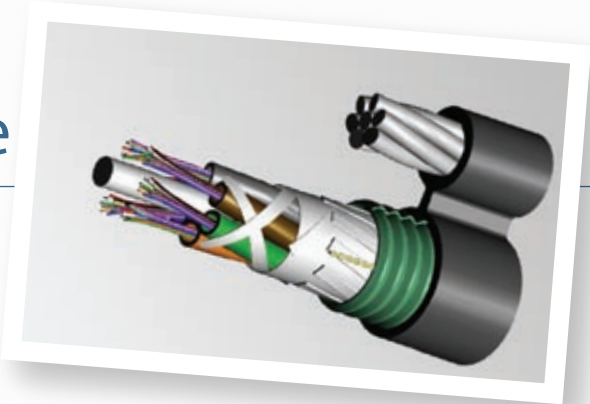
TeraSPEED/OptiSPEED Metallic

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5021 12/24A W/MXBK	36	0.51 in (13.0 mm)	120 lbs/kft (179 kg/km)	760032854

Outdoor Loose Tube Figure 8 Messenger Cable

The self-supporting Figure 8 stranded loose tube cable is constructed with industry standard 3 mm gel-filled, buffer tubes, stranded around a central strength member. The armored version has the cable armored with a corrugated, polymer coated steel tape.

ARID-CORE water blocking technology protects fibers from moisture and reduces termination effort.



Environmental and Mechanical Specifications

Operating Temperature: 40° to 158° F (-40° to 70° C) (Test Method: FOTP - 3)

Installation Temperature: -22° to 140° F (-30° to 60° C)

Storage Temperature: -40° to 167° F (-40° to 75° C)

Crush Resistance: 250 lbf/in (44N/mm) (Test Method: FOTP - 41)

Impact Resistance: Exceeds (Test Method: FOTP - 25)

Flexing: 25 Cycles (Test Method: FOTP - 104)

Twist Bend: Exceeds (Test Method: FOTP - 85)

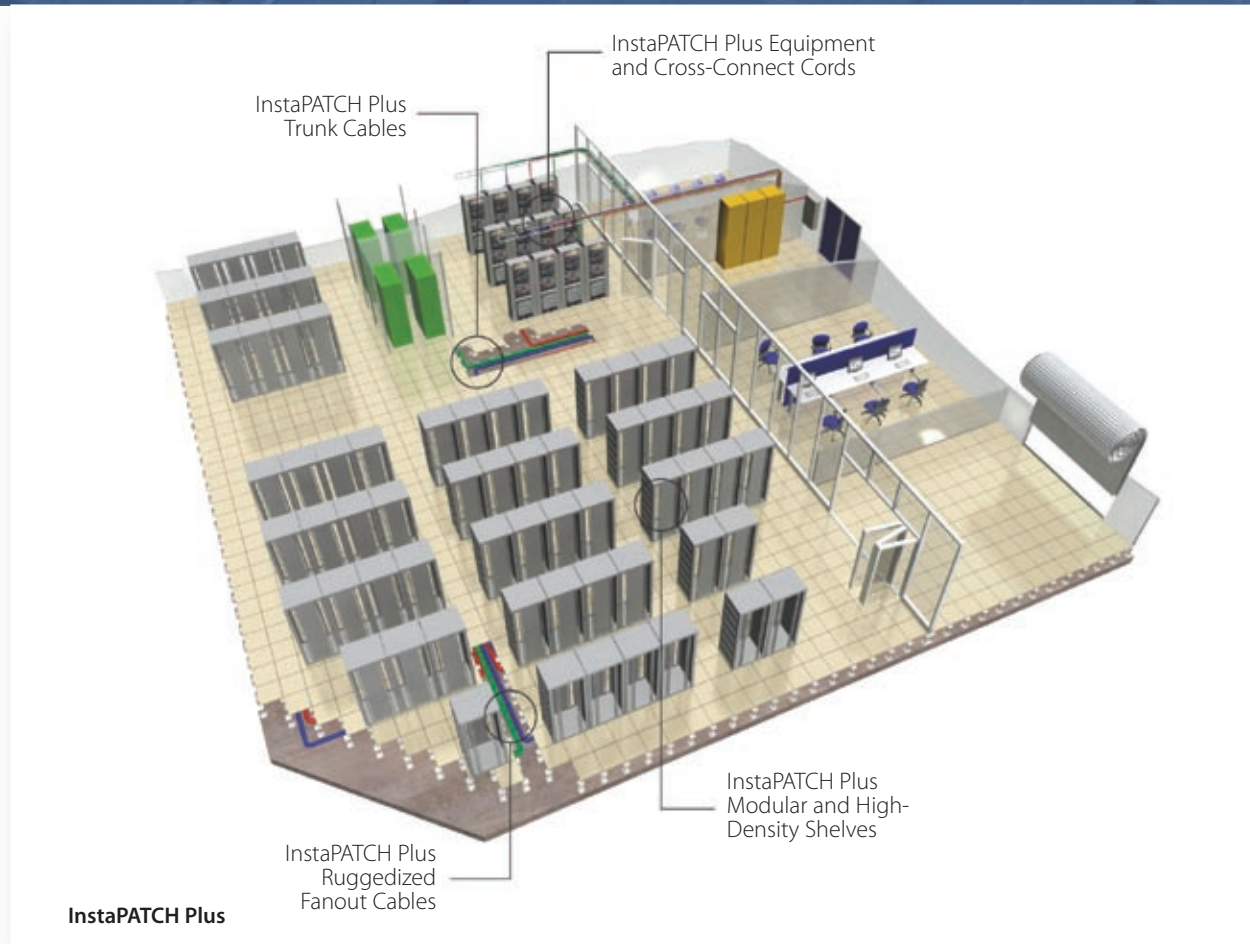
Figure 8

Product Number	Fiber Count	Outside Diameter	Weight	Material ID
5026 048A WXBK	48	0.55 in (14.0 mm)	0.99 in (25.2 mm)	760055434

*Other fiber counts available. Contact Customer Service for details.

Building

InstaPATCH® Plus Fiber System



The SYSTIMAX InstaPATCH Plus System features a high-density, factory terminated, factory tested, modular fiber connectivity solution that allows installers to simply and quickly connect system components together. This modular system approach enables 96 fibers to be ready for service in the time it takes to make a single fiber connection with traditional systems.

Developed by SYSTIMAX Labs, the InstaPATCH Plus System is designed to support locations, such as data centers, that require high-density, rapid deployment and high performance. The InstaPATCH Plus System incorporates SYSTIMAX LazrSPEED multimode and TeraSPEED singlemode fiber technologies to support today's most demanding applications, while allowing easy migration to the next generation technology.

The InstaPATCH Plus System includes pre-terminated hardware, pre-terminated backbone trunk cables, ruggedized MPO-single fiber fanout patch cords and standard fiber patch cords. The InstaPATCH Plus System utilizes one common module, one common rugged fanout, standard fiber patch cords, and retains the full benefits of easy installation and system administration, while maintaining a future upgrade path to parallel connectivity. Moreover, the InstaPATCH Plus System features an improved labeling system that is accurate and logical when positioned in four orientations, affording more flexibility in design, installation and application.

Pre-terminated with MPO connectors and offered in customer-specified lengths, the InstaPATCH Plus trunk cables are offered in 12, 24, 48, 72, 96, and 144 fibers. Solutions supported are:

- LazrSPEED 550
- LazrSPEED 300
- LazrSPEED 150
- TeraSPEED
- OptiSPEED

InstaPATCH
Plus

InstaPATCH® Plus DM2 Modules and Modular Shelves

The InstaPATCH Modular Series includes unpopulated shelves and DM2 modules. The modular design allows fast moves and changes of the optical data network.

The options of the unpopulated shelf include a 1U 19 inch panel, 1U 19 inch shelf and a 4U 19 inch shelf that house pre-terminated DM2 modules. Eight versions of pre-terminated modules are offered: LC, SC, ST and a double density LC, each available in LazrSPEED multimode (LS) or TeraSPEED singlemode (SM) options.

The InstaPATCH Plus DM2 module can be fitted in any combination in 1U panels, 1U shelves and 4U shelves. In addition, MPO panels and blank panels, with the same footprint as the DM2 modules, are also available to support additional configurations.

Each DM2 module has a dual polarity labeling scheme, to allow the use of a single module for each end of the InstaPATCH Plus channel.

Features and Benefits:

- 12-fiber MPO connector based modular design enables simple connections
- DM2 modules are constructed with LazrSPEED 300 fibers or TeraSPEED ZWP fibers to provide headroom for future system upgrades
- Factory-terminated and tested modules for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- No special or non-standard polarity components
- Supports easy reconfiguration for moves, adds and changes
- Easy upgrade path to parallel connectivity and associated applications, while preserving most of investment
- Automatic shutters for LC adapters

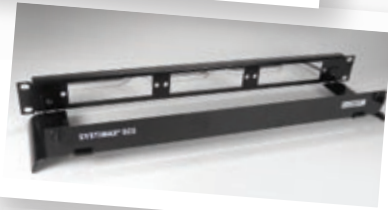
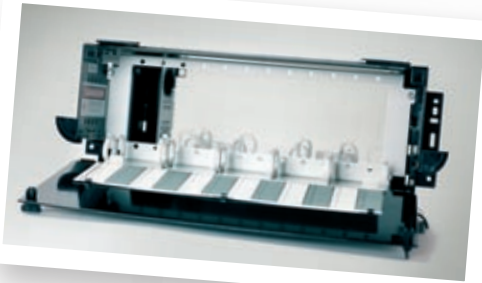
InstaPATCH MP-1U Panel and InstaPATCH 600G2-1U-IP Shelf

The 1U panel and 1U shelves can house any combination of up to 3 InstaPATCH Plus DM2 modules to achieve up to 72 fiber terminations per unit. In addition, 600G2-1U-IP-FX (fixed) and 600G2-1U-IP-SD (sliding) provide ample space for storing up to 2 meters of cable slack inside the shelf.

The 1U panel and shelf are equipped with a front trough for patch cord management that provides ample room for labeling. The MP-1U panel comes with conversion brackets for mounting on a 19 inch, 23 inch or ETSI rack. The InstaPATCH MP-1U also includes a rear cable management bar, labels for network mapping, mounting hardware and installation instructions.

InstaPATCH 1000G2-4U-IP-FX Shelf

The 4U shelf houses any combination up to 12 InstaPATCH Plus DM2 modules to achieve up to 288 fiber terminations per shelf. It can be mounted either on a 19 inch, 23 inch or ETSI rack. The InstaPATCH MS-4U includes trunk cable storage clips, labels for network mapping, mounting hardware and installation instructions.



InstaPATCH Plus DM2-12LC-LS / -SM Module

This module features 6 pre-installed duplex LC adapters at the front routed to a pre-installed 12-fiber MPO adapter at the back.

As with the InstaPATCH Plus DS2-LC shelf, this module features spring-loaded shutters for improved dust prevention and occupational safety.

InstaPATCH Plus DM2-24LC-LS / -SM Module

This module features 12 pre-installed duplex LC adapters at the front routed to 2 pre-installed 12-fiber MPO adapters at the back. As with the InstaPATCH Plus DS2-LC shelf, this high-density module features spring-loaded shutters for improved dust prevention.

InstaPATCH Plus DM2-12SC-LS / -SM Module

This module features 6 pre-installed duplex SC adapters routed to a pre-installed 12-fiber MPO adapter at the back. The duplex SC adapter includes two “easy-pull” protective dust caps.

InstaPATCH Plus DM2-12ST-LS / -SM Module:

This module features 12 simplex ST adapters routed to a pre-installed 12-fiber MPO adapter at the back. The ST adapter includes a protective dust cap.

InstaPATCH Plus DM-MPO Module:

The MPO module features a panel equipped with either 2 or 6 MPO adapters. The module allows for direct connections with MPO equipment for parallel applications.

InstaPATCH Plus Universal Mounting Bracket:

The InstaPATCH Plus universal mounting bracket extends application flexibility of the InstaPATCH Plus modules, offers options for wall-mount, rack-mount, and cabinet-mount. The UMB bracket is individually packed with the mounting screws(included) and can mount a single module or panel on either side of the rack either vertically or horizontally. Using optional #10 screws (not included), the bracket can be attached to a wall or ceiling in either horizontal or vertical orientation.

Physical Specifications:

	MP-1U Panel	DM2 Modules–LC, SC, ST
Height:	1.7 in (4.37 cm)	1.1 in (2.9 cm)
Width:	19.0 in (48.3 cm)	5.1 in (13.0 cm)
Depth:	9.7 in (24.6 cm)	5.0 in (12.8 cm)
Listing:	UL	UL

Optical Performance:

Module Component	LazrSPEED Total Insertion Loss	Return Loss	TeraSPEED Total Insertion Loss	Return Loss
DM2-LC Modules	≤ 1.15 dB	≥ 20 dB	≤ 1.15 dB	≥ 55 dB
DM2-SC Modules	≤ 1.3 dB	≥ 20 dB	≤ 1.3 dB	≥ 55 dB
DM2-ST Modules	≤ 1.3 dB	≥ 20 dB	≤ 1.3 dB	≥ 55 dB

InstaPATCH Plus Modular Panels/Shelves

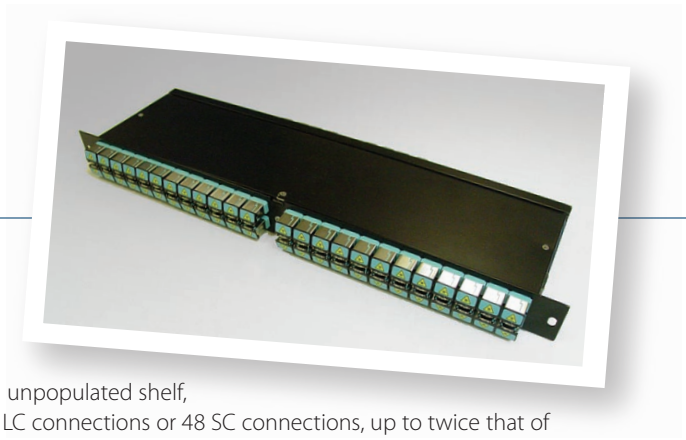
Detailed Description	Material ID
InstaPATCH MP-1U modular panel, supports 3 DM2 modules (not included)	760013458
InstaPATCH MS-1U modular shelf, supports 3 DM2 modules (not included)	760033787
Insta PATCH MS-4U modular shelf, supports 12 DM2 modules (not included)	760013722
600G2-1U-IP-FX 1U modular shelf, supports 3 DM2 modules (not included)	760055475
600G2-1U-IP-SD 1U modular shelf, supports 3 DM2 modules (not included)	760055467
1000G2-4U-IP-FX 4U modular shelf, supports 12 DM2 modules (not included)	760050872

InstaPATCH Plus DM2 Modules

Detailed Description	Material ID
InstaPATCH Plus DM2-12LC-MM module	760044826
InstaPATCH Plus DM2-12LC-LS module	760039727
InstaPATCH Plus DM2-12LC-SM module	760039743
InstaPATCH Plus DM2-12SC-MM module	760044834
InstaPATCH Plus DM2-12SC-LS module	760039768
InstaPATCH Plus DM2-12SC-SM module	760039784
InstaPATCH Plus DM2-12ST-MM module	760044842
InstaPATCH Plus DM2-12ST-LS module	760039800
InstaPATCH Plus DM2-12ST-SM module	760039826
InstaPATCH Plus DM2-24LC-MM module	760044818
InstaPATCH Plus DM2-24LC-LS module	760039685
InstaPATCH Plus DM2-24LC-SM module	760039701
InstaPATCH Plus DM2-12LC-LS module, 6/pk	760069989
InstaPATCH Plus DM2-12LC-SM module, 6/pk	760069997
InstaPATCH Plus DM2-24LC-LS module, 6/pk	760070003
InstaPATCH Plus DM2-24LC-SM module, 6/pk	760070011
InstaPATCH DP-8 MPO Adapter Panel 8x MPO	760056077
InstaPATCH DP-6 MPO Adapter Panel 6x MPO	760034280
InstaPATCH DP-2 MPO Adapter Panel 2x MPO	760015412
Blank panel for MP-1U and MS-4U, BLK, 6/pk	760016063
InstaPATCH Module 1x Mnt Bracket Kit	760035733
Plenum Box Holding 5 InstaPATCH Plus modules	760055905

InstaPATCH
Plus

InstaPATCH® Plus High Density Modules



For higher density applications, pre-terminated high density modules provide the easiest and fastest connectivity solution. Available in OptiSPEED, LazrSPEED and TeraSPEED Solutions, the InstaPATCH Plus high-density module series features pre-terminated, factory tested LC and SC modules. Each high-density module fits into a 1U unpopulated shelf, either fixed or sliding. The high-density modules feature 48 and 96 LC connections or 48 SC connections, up to twice that of standard shelves.

Features and Benefits:

- Provides the highest usable density on the market—96LC in 1U
- Shelves are constructed with LazrSPEED 300 fibers or TeraSPEED ZWP fibers to provide headroom for future system upgrades
- Factory-terminated and tested for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- Easy upgrade path to parallel connectivity and associated applications
- Improved patch cord management and system labeling capabilities
- Automatic shutters for LC adapters
- Mounting within the 600G2 series shelf provides slack storage for trunk cable and cable entry features for strain relief.

InstaPATCH Plus High-Density LC Modules

The high-density LC module features 48 pre-installed duplex LC adapters at the front panel routed to 8 pre-installed 12-fiber MPO adapters at the rear of the module. The alternative high-density LC shelf includes 24 pre-installed duplex LC adapters at the front panel routed to 4 pre-installed 12-fiber MPO adapters at the rear of the module. Also featured are automatic shutters on the LC adapters for eye safety and to minimize dust contamination.

InstaPATCH Plus High-Density SC Module

The high-density SC module features 24 pre-installed duplex SC adapters at the front panel, routed to 4 pre-installed 12-fiber MPO adapters at the rear of the module.

Detailed Description	Material ID
InstaPATCH Plus DM2-96LC-LS high-density module	760057646
InstaPATCH Plus DM2-96LC-MM high-density module	760057653
InstaPATCH Plus DM2-96LC-SM high-density module	760057661
InstaPATCH Plus DM2-48LC-LS high-density module	760057703
InstaPATCH Plus DM2-48LC-MM high-density module	760057711
InstaPATCH Plus DM2-48LC-SM high-density module	760057729
InstaPATCH Plus DM2-48SC-LS high-density module	760057679
InstaPATCH Plus DM2-48SC-MM high-density module	760057687
InstaPATCH Plus DM2-48SC-SM high-density module	760057695
600G2-1U-UP-FX unpopulated fixed shelf, supports one high-density module	760033928
600G2-1U-UP-SD unpopulated sliding shelf, supports one high-density module	760033936

InstaPATCH® Plus Pre-terminated Trunk Cables

The SYSTIMAX InstaPATCH Plus System features a high-density, factory-terminated, factory tested, modular fiber connectivity solution that allows installers to simply and quickly connect system components together.



Developed by SYSTIMAX Labs, the InstaPATCH Plus System is designed to support locations, such as data centers, that require high-density, rapid deployment and high performance. The InstaPATCH Plus System incorporates SYSTIMAX LazrSPEED multimode and TeraSPEED singlemode fiber technologies to support today's most demanding applications, while allowing easy migration to next generation technology.

InstaPATCH Plus Trunk Cables

InstaPATCH Plus trunk cables are offered in OptiSPEED, LazrSPEED 150, LazrSPEED 300, LazrSPEED 550 and TeraSPEED Solutions. The InstaPATCH-IPD trunk cables are round and offered in 12, 24, 48, 72, 96 and 144 fibers. The cable is constructed with multiple subunits, each with 12 fibers and is terminated on both ends with MPO 12-fiber connectors. There is no splicing within the cable, and each group of 12 fibers is protected by over-sheath. The lengths of the breakout over-sheaths are staggered for easy routing and handling. The maximum length of the breakout over-sheath is 33 inches from the transition point.

All IPD cables can be ordered with or without a pulling eye.

Features and Benefits:

- Available in OptiSPEED, LazrSPEED 150, LazrSPEED 300, LazrSPEED 550 and TeraSPEED Solutions
- 12 fiber MPO connector-based modular design enables simple connections
- Factory terminated and tested trunk cables for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- Supports easy reconfiguration for moves, adds and changes
- Easy upgrade path to parallel connectivity and associated applications, while preserving most of the investment

InstaPATCH Plus Trunk Extensions

The InstaPATCH Plus trunk extensions, offered in OptiSPEED, LazrSPEED 300, LazrSPEED 550 and TeraSPEED Solutions, are used to connect hardware using parallel transceivers to trunk cables. The InstaPATCH Plus trunk extensions are constructed with a 12 fiber IPD cable and provide a female MPO connector on one end to attach to an InstaPATCH module or rugged fanout and a male MPO on the other end to attach to a trunk cable through a DM-2MPO, DM-6MPO or DM-8MPO panel. The cords are custom built and can be ordered to specific lengths in feet or meters.

Cable Specifications:

Attenuation, max:	LazrSPEED 150	LazrSPEED 300	TeraSPEED
	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	0.5 dB/km @ 1,310 nm
	1.0 dB/km @ 1,300 nm	1.0 dB/km @ 1,300 nm	0.5 dB/km @ 1,382 nm
			0.5 dB/km @ 1,550 nm
Minimum Bandwidth, MHz-km:			
Overfilled:	700 Mhz-km @ 850 nm	3,500 Mhz-km @ 850 nm	N/A
	500 Mhz-km @ 1,300 nm	500 Mhz-km @ 1,300 nm	N/A
Laser:	950 Mhz-km @ 850 nm	4,700 Mhz-km @ 850 nm	N/A
	500 Mhz-km @ 1,300 nm	500 Mhz-km @ 1,300 nm	N/A

InstaPATCH
Plus

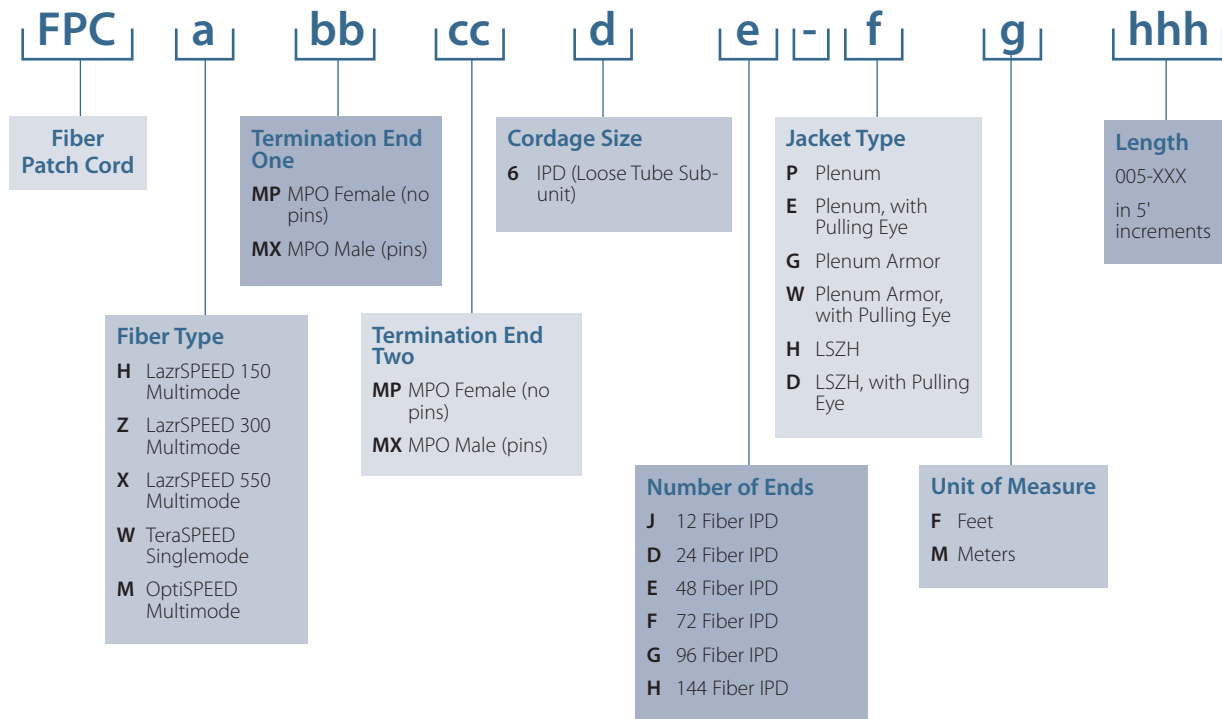
Cable Dimension, mm, Cross-Section:

12 Fiber Single Unit	4.9
24 Fiber Multi-unit	3.9 x 6.9 (oval)
48 Fiber Multi-unit	9.1
72 Fiber Multi-unit	10.7
96 Fiber Multi-unit	12.3
144 Fiber Multi-unit	13.1

Cable Listing: OFNP (UL) OFN FT-6 (CSA) LSZH**Temperature Range:** 32°F to 158°F (0°C to 70°C)**Tensile Rating:** Distribution IPD - 670-2670 N (150-600 lbs)**Minimum Bending Radius:** 20X Cable OD During Installation
10X Cable OD After Installation**MPO Connector Type:** Trunk - female/female

Trunk extension - female/male

Cross-connect - male/male

Total Termination Insertion Loss per Trunk Cable: < 1.45 dB per trunk cable (two connections)**Mating Durability (per EIA 455-21A):** < 0.2 dB change 1,000 remate**Return Loss:** ≥ 20 dB 1,000 remate for MM
≥ 55 dB 1,000 remate for SM**InstaPATCH® Plus Trunk Cable Configurator**

Detailed Description	FPC Code
LazrSPEED 550 IPD MPO(f)-MPO(f) Trunk Cable, 12 Fiber Cable, Plenum	FPCXMPMP6J
LazrSPEED 550 IPD MPO(f)-MPO(f) Trunk Cable, 24 Fiber Multi-unit Cable, Plenum	FPCXMPMP6D
LazrSPEED 550 IPD MPO(f)-MPO(f) Trunk Cable, 48 Fiber Multi-unit Cable, Plenum	FPCXMPMP6E
LazrSPEED 550 IPD MPO(f)-MPO(f) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCXMPMP6F
LazrSPEED 550 IPD MPO(f)-MPO(f) Trunk Cable, 96 Fiber Multi-unit Cable, Plenum	FPCXMPMP6G
LazrSPEED 550 IPD MPO(f)-MPO(f) Trunk Cable, 144 Fiber Multi-unit Cable, Plenum	FPCXMPMP6H
LazrSPEED 550 IPD MPO(f)-MPO(m) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCXMPMX6F
LazrSPEED550 IPD LC-LC Trunk Cable, 12 Fiber Multi-unit	FPCXLCLC6J
LazrSPEED550 IPD LC-LC Trunk Cable, 24 Fiber Multi-unit	FPCXLCLC6D
LazrSPEED550 IPD LC-LC Trunk Cable, 48 Fiber Multi-unit	FPCXLCLC6E
LazrSPEED550 IPD LC-LC Trunk Cable, 72 Fiber Multi-unit	FPCXLCLC6F
LazrSPEED550 IPD LC-UC Trunk Cable, 72 Fiber Multi-unit	FPCXLCUC6F
LazrSPEED 300 IPD MPO(f)-MPO(f) Trunk Cable, 12 Fiber Cable, Plenum	FPCZMPMP6J
LazrSPEED 300 IPD LC-LC Trunk Cable, 12 Fiber Multi-unit	FPCZLCLC6J
LazrSPEED 300 IPD MPO(f)-MPO(f) Trunk Cable, 24 Fiber Multi-unit Cable, Plenum	FPCZMPMP6D
LazrSPEED 300 IPD LC-LC Trunk Cable, 24 Fiber Multi-unit	FPCZLCLC6D
LazrSPEED 300 IPD MPO(f)-MPO(f) Trunk Cable, 48 Fiber Multi-unit Cable, Plenum	FPCZMPMP6E
LazrSPEED 300 IPD LC-LC Trunk Cable, 48 Fiber Multi-unit	FPCZLCLC6E
LazrSPEED 300 IPD MPO(f)-MPO(f) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCZMPMP6F
LazrSPEED 300 IPD SC-SC Trunk Cable, 12 Fiber Multi-unit	FPCZSCSC6J
LazrSPEED 300 IPD LC-LC Trunk Cable, 72 Fiber Multi-unit	FPCZLCLC6F
LazrSPEED 300 IPD MPO(f)-MPO(f) Trunk Cable, 96 Fiber Multi-unit Cable, Plenum	FPCZMPMP6G
LazrSPEED 300 IPD MPO(f)-MPO(f) Trunk Cable, 144 Fiber Multi-unit Cable, Plenum	FPCZMPMP6H
LazrSPEED 150 IPD MPO(f)-MPO(f) Trunk Cable, 12 Fiber Cable, Plenum	FPCXMPMP6J
LazrSPEED 150 IPD MPO(f)-MPO(f) Trunk Cable, 24 Fiber Multi-unit Cable, Plenum	FPCXMPMP6D
LazrSPEED 150 IPD MPO(f)-MPO(f) Trunk Cable, 48 Fiber Multi-unit Cable, Plenum	FPCXMPMP6E
LazrSPEED 150 IPD MPO(f)-MPO(f) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCXMPMP6F
LazrSPEED 150 IPD MPO(f)-MPO(f) Trunk Cable, 96 Fiber Multi-unit Cable, Plenum	FPCXMPMP6G
LazrSPEED 150 IPD MPO(f)-MPO(f) Trunk Cable, 144 Fiber Multi-unit Cable, Plenum	FPCXMPMP6H
TeraSPEED IPD MPO(f)-MPO(f) Trunk Cable, 12 Fiber Multi-unit Cable, Plenum	FPCWMPMP6J
TeraSPEED IPD LC-LC Trunk Cable, 12 Fiber Multi-unit	FPCWLCLC6J
TeraSPEED IPD MPO(f)-MPO(f) Trunk Cable, 24 Fiber Multi-unit Cable, Plenum	FPCWMPMP6D
TeraSPEED IPD MPO(f)-MPO(f) Trunk Cable, 48 Fiber Multi-unit Cable, Plenum	FPCWMPMP6E
TeraSPEED IPD MPO(f)-MPO(f) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCWMPMP6F
TeraSPEED IPD MPO(f)-MPO(f) Trunk Cable, 96 Fiber Multi-unit Cable, Plenum	FPCWMPMP6G
TeraSPEED IPD MPO(f)-MPO(f) Trunk Cable, 144 Fiber Multi-unit Cable, Plenum	FPCWMPMP6H
TeraSPEED IPD MPO(f)-MPO(m) Trunk Cable, 12 Fiber Cable, Plenum	FPCWMPMX6J
TeraSPEED IPD MPO(f)-MPO(m) Trunk Cable, 24 Fiber Multi-unit Cable, Plenum	FPCWMPMX6D
OptiSPEED IPD MPO(f)-MPO(f) Trunk Cable, 12 Fiber Cable, Plenum	FPCMPMP6J
OptiSPEED IPD MPO(f)-MPO(f) Trunk Cable, 24 Fiber Multi-unit Cable, Plenum	FPCMPMP6D
OptiSPEED IPD MPO(f)-MPO(f) Trunk Cable, 48 Fiber Multi-unit Cable, Plenum	FPCMPMP6E
OptiSPEED IPD MPO(f)-MPO(f) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCMPMP6F
OptiSPEED IPD MPO(f)-MPO(f) Trunk Cable, 96 Fiber Multi-unit Cable, Plenum	FPCMPMP6G
OptiSPEED IPD MPO(f)-MPO(f) Trunk Cable, 144 Fiber Multi-unit Cable, Plenum	FPCMPMP6H
OptiSPEED IPD MPO(f)-MPO(m) Trunk Cable, 12 Fiber Cable, Plenum	FPCMPMX6J
OptiSPEED IPD MPO(f)-MPO(m) Trunk Cable, 72 Fiber Multi-unit Cable, Plenum	FPCMPMX6F

InstaPATCH
Plus

Reusable Pulling Grip Kit

Save time and costs with new re-usable pulling grip kit from SYSTIMAX. With the introduction of the new re-usable Pulling Grip Kit, it is no longer necessary to order InstaPATCH Plus trunk cables with pulling grips. This innovative re-usable kit allows you to order all your trunk cables without pulling grips and order pulling grip kits separately. Since each grip can be reused up to 10 times, these kits reduce the total cost of the installation.

- Easy attachment and removal makes cable installation faster.
- Reusability reduces the total cost of the installation.
- Non-armored trunk cables ordered with pulling grip attached (Code "E" under "Jacket Type") will come with the new reusable grip pre-attached.
- Armored trunk cables ordered with pulling grip attached (Code "W" under "Jacket Type") will come with the old, one-use-only pulling grip.



Detailed Description	Material ID
InstaPATCH Plus Pulling Grip Kit, 12 Fiber	760060541
InstaPATCH Plus Pulling Grip Kit, 24 Fiber	760060558
InstaPATCH Plus Pulling Grip Kit, 48/72 Fiber	760060566
InstaPATCH Plus Pulling Grip Kit, 96/144 Fiber	760060574



InstaPATCH® Plus Ruggedized Fanout Cables

The InstaPATCH Plus ruggedized fanout cables support direct connection to equipment from the patch panel. Terminated with MPO connectors on one end and clipped duplex connectors (LC, SC or ST) on the other end, the ruggedized fanout cable is designed for use with InstaPATCH Plus modular shelves and MPO panels.

The ruggedized fanouts are available in LazrSPEED 550, LazrSPEED 300, TeraSPEED and OptiSPEED Solutions, in 12, 24, 48 and 72 fiber counts. The fanout is built with InstaPATCH IPD (12 fiber subunit distribution cable) and furcated to individual fiber legs, terminated with individual connectors. Each fiber leg is protected with aramid yarn and 2.0 mm furcation tubing for rugged applications.

Designed for two distinct applications, the InstaPATCH Plus MPO Fanout Cables are available in two configurations:

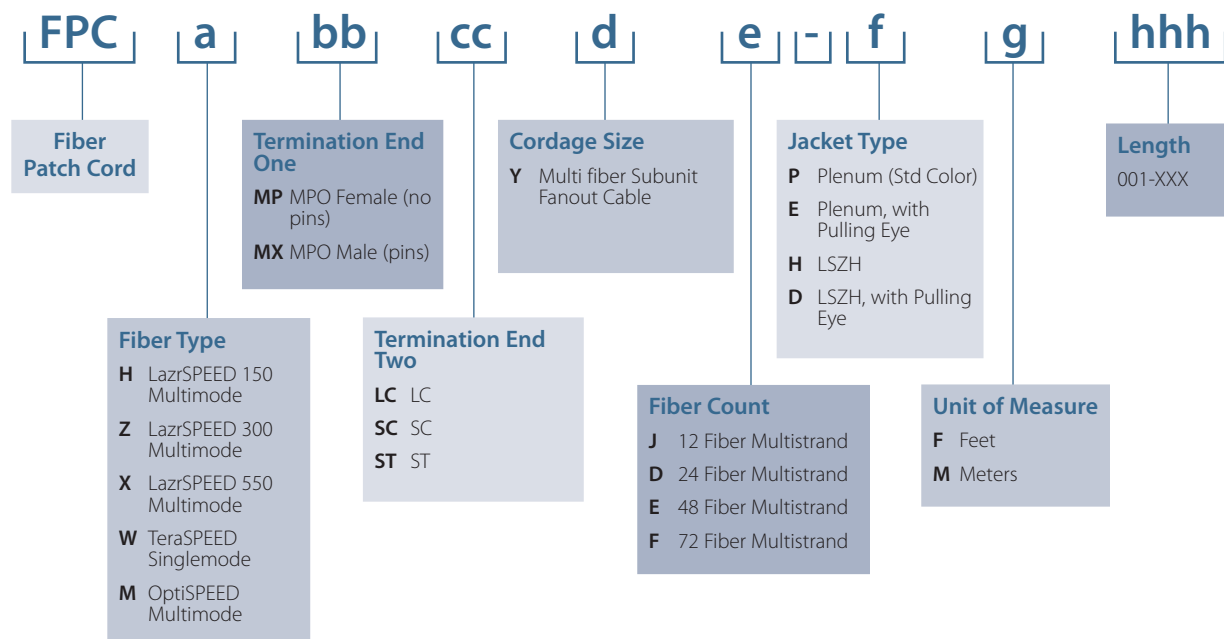
- MP—without pins, for connections to equipment from a DM2 Module
- MX—with pins, for connections to equipment directly from a trunk cable

Features and Benefits:

- 12 fiber MPO connector based modular design enables simple connections
- Ruggedized fanouts are constructed with LazrSPEED 550 or LazrSPEED 300 fibers or TeraSPEED ZWP fibers to provide head-room for future system upgrades
- Provide ultra high-density patching to achieve maximum density of 216 individual fibers in 1U
- Factory-terminated and tested for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- No special or non-standard polarity components



InstaPATCH® Plus Rugged Fanout Configurator



InstaPATCH
Plus

With Pins

Rugged fanouts with pins are designated by the connector code MX. These are used to connect InstaPATCH trunk cables to LC, SC or ST ports on equipment.

Detailed Description	FPC Code
LazrSPEED 550 12 Fiber IPD MPO(m)-LC Plenum	FPCXMXLCYJ
LazrSPEED 550 24 Fiber IPD MPO(m)-LC, Plenum	FPCXMXLCYD
LazrSPEED 550 48 Fiber IPD MPO(m)-LC, Plenum	FPCXMXLCYE
LazrSPEED 550 72 Fiber IPD MPO(m)-LC, Plenum	FPCXMXLCYF
LazrSPEED 550 12 Fiber IPD MPO(m)-SC Plenum	FPCXMXSCYJ
LazrSPEED 550 24 Fiber IPD MPO(m)-SC, Plenum	FPCXMXSCYD
LazrSPEED 550 48 Fiber IPD MPO(m)-SC, Plenum	FPCXMXSCYE
LazrSPEED 550 72 Fiber IPD MPO(m)-SC, Plenum	FPCXMXSCYF
LazrSPEED 550 12 Fiber IPD MPO(m)-STII, Plenum	FPCXMXSTYJ
LazrSPEED 550 24 Fiber IPD MPO(m)-STII, Plenum	FPCXMXSTYD
LazrSPEED 550 48 Fiber IPD MPO(m)-STII, Plenum	FPCXMXSTYE
LazrSPEED 550 72 Fiber IPD MPO(m)-STII, Plenum	FPCXMXSTYF
LazrSPEED 300 12 Fiber IPD MPO(m)-LC Plenum	FPCZMXLCYJ
LazrSPEED 300 24 Fiber IPD MPO(m)-LC, Plenum	FPCZMXLCYD
LazrSPEED 300 48 Fiber IPD MPO(m)-LC, Plenum	FPCZMXLCYE
LazrSPEED 300 72 Fiber IPD MPO(m)-LC, Plenum	FPCZMXLCYF
LazrSPEED 300 12 Fiber IPD MPO(m)-SC Plenum	FPCZMXSCYJ
LazrSPEED 300 24 Fiber IPD MPO(m)-SC, Plenum	FPCZMXSCYD
LazrSPEED 300 48 Fiber IPD MPO(m)-SC, Plenum	FPCZMXSCYE
LazrSPEED 300 72 Fiber IPD MPO(m)-SC, Plenum	FPCZMXSCYF
LazrSPEED 300 12 Fiber IPD MPO(m)-STII, Plenum	FPCZMXSTYJ
LazrSPEED 300 24 Fiber IPD MPO(m)-STII, Plenum	FPCZMXSTYD
LazrSPEED 300 48 Fiber IPD MPO(m)-STII, Plenum	FPCZMXSTYE
LazrSPEED 300 72 Fiber IPD MPO(m)-STII, Plenum	FPCZMXSTYF
TeraSPEED 24 Fiber IPD MPO(m)-LC, Plenum	FPCWMXLCYD
TeraSPEED 48 Fiber IPD MPO(m)-LC, Plenum	FPCWMXLCYE
TeraSPEED 72 Fiber IPD MPO(m)-LC, Plenum	FPCWMXLCYF
TeraSPEED 12 Fiber IPD MPO(m)-SC, Plenum	FPCWMXSCYJ
TeraSPEED 12 Fiber IPR MPO(m)-SC, Plenum	FPCWMXSCYA
TeraSPEED 24 Fiber IPD MPO(m)-SC, Plenum	FPCWMXSCYD
TeraSPEED 48 Fiber IPD MPO(m)-SC, Plenum	FPCWMXSCYE
TeraSPEED 72 Fiber IPD MPO(m)-SC, Plenum	FPCWMXSCYF
TeraSPEED 12 Fiber IPR MPO(m)-STII+, Plenum	FPCWMXEPYA

Without Pins

Rugged fanouts without pins are designated by the connector code MP. These are used to connect InstaPATCH Plus DM2 Modules directly to LC, SC or ST ports on equipment.

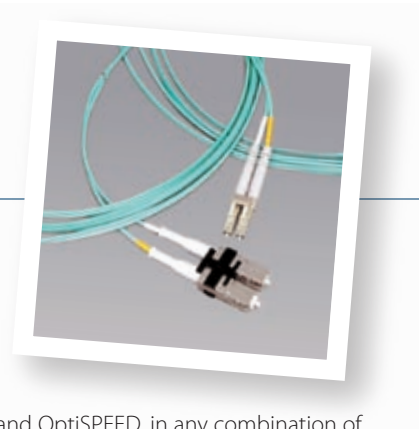
Detailed Description	FPC Code
LazrSPEED 550 12 Fiber IPD MPO(f)-LC Plenum	FPCXMPLCYJ
LazrSPEED 550 24 Fiber IPD MPO(f)-LC, Plenum	FPCXMPLCYD
LazrSPEED 550 48 Fiber IPD MPO(f)-LC, Plenum	FPCXMPLCYE
LazrSPEED 550 72 Fiber IPD MPO(f)-LC, Plenum	FPCXMPLCYF
LazrSPEED 550 12 Fiber IPD MPO(f)-SC Plenum	FPCXMPSCYJ
LazrSPEED 550 24 Fiber IPD MPO(f)-SC, Plenum	FPCXMPSCYD
LazrSPEED 550 48 Fiber IPD MPO(f)-SC, Plenum	FPCXMPSCYE
LazrSPEED 550 72 Fiber IPD MPO(f)-SC, Plenum	FPCXMPSCYF
LazrSPEED 550 12 Fiber IPD MPO(f)-STII, Plenum	FPCXMPSTYJ
LazrSPEED 550 24 Fiber IPD MPO(f)-STII, Plenum	FPCXMPSTYD
LazrSPEED 550 48 Fiber IPD MPO(f)-STII, Plenum	FPCXMPSTYE
LazrSPEED 550 72 Fiber IPD MPO(f)-STII, Plenum	FPCXMPSTYF
LazrSPEED 300 12 Fiber IPD MPO(f)-LC Plenum	FPCZMPLCXJ
LazrSPEED 300 24 Fiber IPD MPO(f)-LC Plenum	FPCZMPLCXD
LazrSPEED 300 48 Fiber IPD MPO(f)-LC Plenum	FPCZMPLCXE
LazrSPEED 300 12 Fiber IPD MPO(f)-LC Plenum	FPCZMPLCYJ
LazrSPEED 300 24 Fiber IPD MPO(f)-LC, Plenum	FPCZMPLCYD
LazrSPEED 300 48 Fiber IPD MPO(f)-LC, Plenum	FPCZMPLCYE
LazrSPEED 300 72 Fiber IPD MPO(f)-LC, Plenum	FPCZMPLCYF
LazrSPEED 300 12 Fiber IPD MPO(f)-SC Plenum	FPCZMPSCYJ
LazrSPEED 300 24 Fiber IPD MPO(f)-SC, Plenum	FPCZMPSCYD
LazrSPEED 300 48 Fiber IPD MPO(f)-SC, Plenum	FPCZMPSCYE
LazrSPEED 300 72 Fiber IPD MPO(f)-SC, Plenum	FPCZMPSCYF
LazrSPEED 300 12 Fiber IPD MPO(f)-STII, Plenum	FPCZMPSTYJ
LazrSPEED 300 24 Fiber IPD MPO(f)-STII, Plenum	FPCZMPSTYD
LazrSPEED 300 48 Fiber IPD MPO(f)-STII, Plenum	FPCZMPSTYE
LazrSPEED 300 72 Fiber IPD MPO(f)-STII, Plenum	FPCZMPSTYF
TeraSPEED 12 Fiber IPD MPO(f)-LC, Plenum	FPCWMPLCXJ
TeraSPEED 24 Fiber IPD MPO(f)-LC, Plenum	FPCWMPLCXD
TeraSPEED 48 Fiber IPD MPO(f)-LC, Plenum	FPCWMPLCXE
TeraSPEED 24 Fiber IPD MPO(f)-LC, Plenum	FPCWMPLCYD
TeraSPEED 48 Fiber IPD MPO(f)-LC, Plenum	FPCWMPLCYE
TeraSPEED 72 Fiber IPD MPO(f)-LC, Plenum	FPCWMPLCYF
TeraSPEED 12 Fiber IPD MPO(f)-SC, Plenum	FPCWMPSCYJ
TeraSPEED 12 Fiber IPR MPO(f)-SC, Plenum	FPCWMPSCYA
TeraSPEED 24 Fiber IPD MPO(f)-SC, Plenum	FPCWMPSCYD
TeraSPEED 48 Fiber IPD MPO(f)-SC, Plenum	FPCWMPSCYE
TeraSPEED 72 Fiber IPD MPO(f)-SC, Plenum	FPCWMPSCYF
TeraSPEED 12 Fiber IPR MPO(f)-STII+, Plenum	FPCWMPEPYA

InstaPATCH
Plus

Fiber Optic Patch Cords

The final fiber optic component of your connectivity solution, Fiber Optic Patch Cords support the connection of the backbone fiber cabling plant to the transceiver/optical electronics. Patch cords (a.k.a. jumpers) are also used to cross-connect segments of cabling infrastructure to another.

Made of rugged round construction in customer-specified lengths of 2-fiber cable, our patch cords are available in LazrSPEED 150, 300 and 550, TeraSPEED; and OptiSPEED, in any combination of SC, LC and ST connectors.



Features and Benefits:

- Zipcord construction provides better mechanical performance with less risk of damage from crimping
- Rugged 1.6 mm or 3.0 mm cordage for durable and easily handled connections
- Outer jacket colored for easy identification

Physical Specifications:

1.6 mm and 3.0 mm Patch Cords

Outside Diameter (simplex):

1.6 mm: 1.6 mm

3.0 mm: 3.0 mm

Outside Diameter (zip cord):

1.6 mm: 1.6 mm x 3.3 mm

3.0 mm: 3.0 mm x 5.9 mm

Minimum Cable Retention Strength:

1.6 mm: 11.24 lbs (50 N)

3.0 mm: 11.24 lbs (50 N)

Minimum Bend Radius:

1.6 mm: Loaded: 2.0 in (5.1 cm)
Unloaded: 1.4 in (3.5 cm)

3.0 mm: Loaded: 2.3 in (5.8 cm)
Unloaded: 1.4 in (3.5 cm)

Maximum Cordage Tensile Load:

1.6 mm: Short Term: 70 lbs (311 N)
Long Term: 21 lbs (93 N)

3.0 mm: Short Term: 90 lbs (400 N)
Long Term: 27 lbs (120 N)



LC Connectors

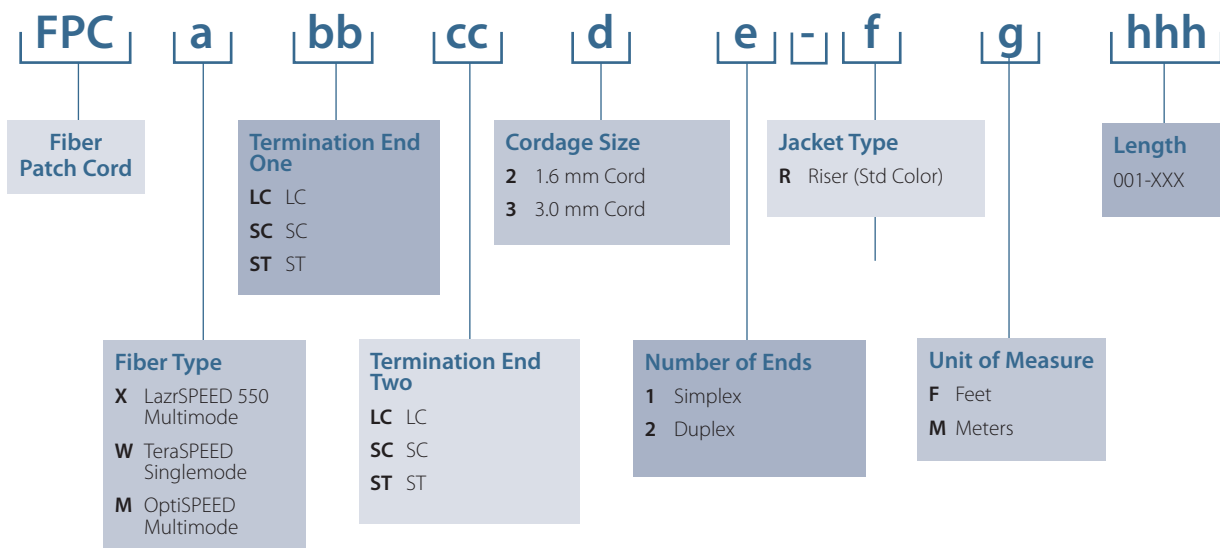


SC Connectors



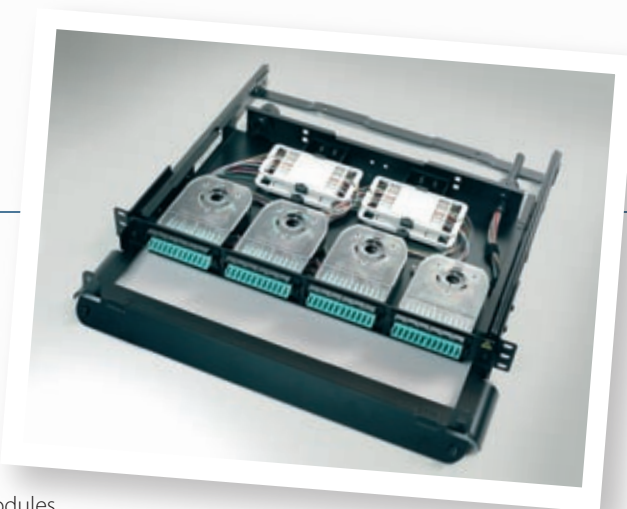
ST Connectors

Patch Cord Configurator



600G2 Fiber Optic Modular Shelf

The SYSTIMAX 600G2 System is a series of low-profile Fiber Optic Combination Shelves that are used for a combination of splicing and termination of fiber optic building cable or outside plant (OSP) cables. The 600G2 modular shelves system is available in both 1U and 2U height fully enclosed shelves, with integrated front cable management trough included. It features either a fixed tray, or slide-out tray for easy access.



The 600G2 modular shelf system features interchangeable G2 modules, which are ordered separately. The G2 modules are available in SC, ST and LC for LazrSPEED, OptiSPEED and TeraSPEED Solutions. The 1U shelf accepts up to 4 and the 2U shelf accepts up to 8 G2 fiber modules, which are pre-populated with fiber optic adapters. The fiber modules are offered either fiberless or equipped with pre-terminated pigtails ready for splicing. In addition, a multimedia outlet bezel can be used interchangeably with the G2 module to facilitate multimedia applications. (For more information on this, please refer to the SYSTIMAX G2 module).

Completing the 600G2 modular shelf offer is the patent pending RoloSplice kit, which provides easy access and administration of two individual splice trays for either fusion or mechanical splices, for the 1U shelf, and 4 splice trays for the 2U shelf. Each 600G2 modular shelf accommodates up to two RoloSplice kits.

Features and Benefits:

- Hinged front doors for easy access
- Front cable management trough
- Top cover panel
- Standard water-tight cable entry conduit connectors for OSP cable, cable diameter 0.25 in to 0.50 in (6.35 mm to 12.70 mm)
- Blank labels for identifying fiber splices and terminations

Additional 600G2 modular shelf accessories include:

- Water-tight connector kit for smaller diameter cable, cable diameter 0.08 in to 0.275 in (2.03 mm to 6.99 mm)
- Universal mounting bracket kit to adapt shelf for ETSI frames or 23 inch frames

Physical Specifications

Weight: 1U: 7.2 lbs (3.3 kg) – fixed

2U: 10.2 lbs (4.2 kg) – fixed

1U: 9.0 lbs (4.1 kg) – sliding

2U: 12.0 lbs (5.4 kg) – sliding

Overall Height: 1U: 1.75 in (4.45 cm)

2U: 3.5 in (8.90 cm)

Overall Width: (including mounting brackets) 19 in (48.26 cm)

Tray Depth: 10 in (25.4 cm)

Overall Shelf Depth: (including trough) 14 in (35.56 cm) – fixed
18 in (45.72 cm) – sliding

OSP Cable Capacity: 1U: 2
2U: 4

Shelf System Capacity:

Application	Connection Type	Capacity 600G2-1U-MOD	Capacity 600G2-2U-MOD
Termination Only	LC	48	96
	SC	24	48
	ST	24	48
Termination + Fusion Splicing	LC	48	96
	SC	24	48
	ST	24	48
Termination + Mechanical Splicing	LC	48	96
	SC	24	48
	ST	24	48

G2 Fiber
Connectivity

G2 Shelf

Product Number	Detailed Description	Material ID
600G2-1U-MOD-SD	Shelf, 600G2, 1U, Sliding, G2 Cartridge	760028324
600G2-1U-MOD-FX	Shelf, 600G2, 1U, Fixed, G2 Cartridge	760028332
600G2-2U-MOD-SD	Shelf, 600G2, 2U, Sliding, G2 Cartridge	760032086
600G2-2U-MOD-FX	Shelf, 600G2, 2U, Fixed, G2 Cartridge	760032094

Splice Kits

Product Number	Detailed Description	Material ID
RS-00	RoloSplice, Accept 4 Splice Trays (not included)	760027516
RS-2AM-12SF	RoloSplice Kit E/W 2x Mech Splice Tray for 1U Shelf	760039859
RS-2AF-16SF	RoloSplice Kit E/W 2x Fusion Splice Tray for 1U Shelf	760039867
RS-4AM-12SF	RoloSplice Kit E/W 4x Mech Splice Tray for 2U Shelf	760031849
RS-4AF-16SF	RoloSplice Kit E/W 4x Fusion Splice Tray for 2U Shelf	760031856
1AM1-12LG	Mechanical Splice Organizer, Holds 12 Splices, Pack of 10	700006240
1AMF1-16LG	Fusion Splice Organizer, Holds 16 Splices, Pack of 10	700006257
1AMF1-6LG	Mass Fusion Splice Organizer, Holds 6 Splices, Pack of 10	700006281

Accessories

Product Number	Detailed Description	Material ID
600-SRF	Small-Diameter-Cable Fitting Kit	760039875
600-23BRKT	Mounting Bracket Kit for 23" Frame	760039883
FOC-MGMT-KIT	Rear Fiber Management Kit	760041186
RMB-6-1/2	Rack Mounted Bracket for Six 1/2" Cable Glands	760058677
RMB-6-3/8	Rack Mounted Bracket for Six 3/8" Cable Glands	760058685
RMB-5-3/4	Rack Mounted Bracket for Five 3/4" Cable Glands	760058701



1000G2 Fiber Optic Modular Shelf

The SYSTIMAX 1000G2 Modular Shelf is the next generation (G2) high capacity, high density fiber optic shelf used for a combination of splicing and termination of fiber optic building cable or outside plant (OSP) cables. The shelf can be used for combined termination and splicing for up to 144 fibers with LC and for up to 72 fibers with SC or ST connections. It has a unique patent-pending design that combines both splicing and termination in a sliding format, which in turn provides both rear and full front access.



This 4U combination shelf is 14 inches deep, featuring an additional 3 inches of depth for better incoming fiber management, when used with 6 inch deep equipment mounting rails. It provides double density versus separate shelves for splicing and termination and improves slack fiber management. The new white internal structure improves visibility for the installer and slides out completely, providing easy access to all terminations.

The 1000G2 modular shelf system features interchangeable G2 modules, available in SC, ST and LC for LazrSPEED, OptiSPEED and TeraSPEED Solutions. G2 modules are offered with or without pre-assembled and factory-terminated pigtails. In addition, a multimedia outlet bezel can be used interchangeably with the G2 module to facilitate multimedia applications.

Each 1000G2 modular shelf is equipped with:

- Hinged front and rear doors constructed of black polycarbonate and equipped (rear door) with knockouts for optional lock mechanism
- Universal shelf mounting brackets for 19 inch, 23 inch or ETSI frame mounting
- Cable entry protectors for incoming building fiber or OSP fiber
- Fiber jumper bend limiters
- Blank labels for identifying fiber splices and terminations
- Articulated splicing/termination panel that slides out and pivots for easy access

Physical Specifications:

Weight: 12 lbs (5.4 kg)
Height: 7 in (17.8 cm)
Width: 17 in (43.2 cm)
Depth: 14 in (35.6 cm)
OSP Cable Capacity: 4

Shelf System Capacity:

Application	Connection Type	1000G2 Modular System Capacity
Termination Only	LC	144
	SC	72
	ST	72
Termination + Fusion Splice	LC	144
	SC	72
	ST	72
Termination + Mechanical Splice	LC	144
	SC	72
	ST	72

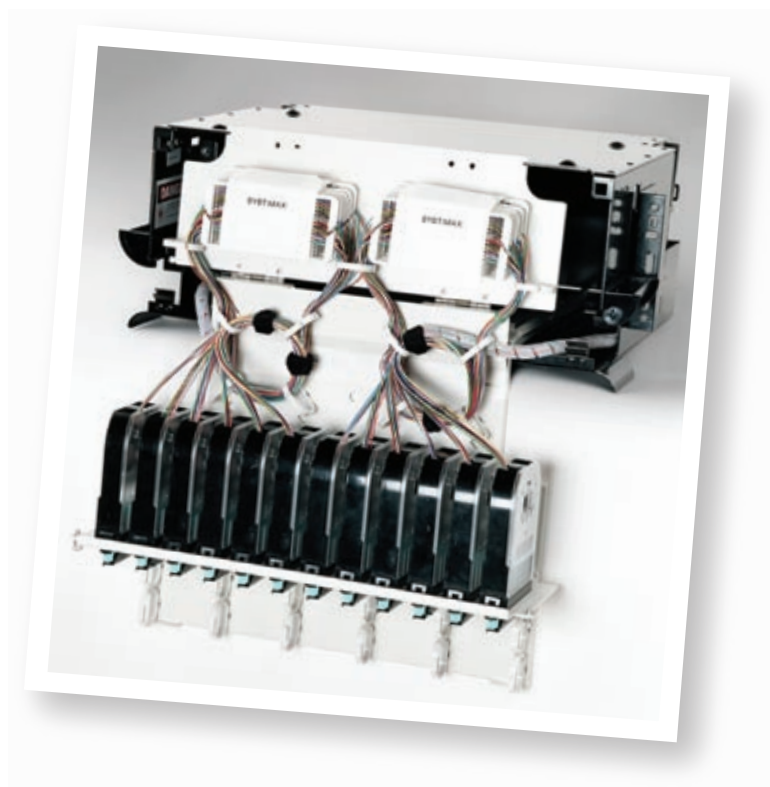
G2 Fiber
Connectivity

G2 Shelf

Product Number	Detailed Description	Material ID
1000G2-4U-MOD-SD	Shelf, 1000G2, 4U, Sliding, Accepts 12 G2 Cartridges	760023200
1000G2-4U-COMBO-FX	Shelf, 1000G2, 4U, Fixed, Accepts 12 G2 Cartridges	760049353
1000G2-4U-MOD-FX	Shelf, 1000G2, 4U, Fixed, Accepts 12 G2 Modules	760050872

Accessories

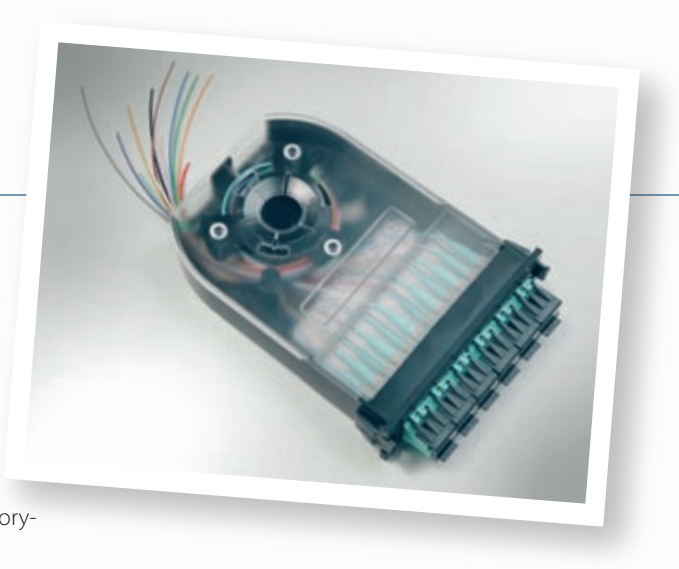
Product Number	Detailed Description	Material ID
1000G2-CPB	Cable Protector Kit for 1000G2 Shelf	760026674
1000G2-XCPB	Expanded Cable Protector Kit	760058669
1000G2-SFDA	Assembly, Smoked Front Door 1000G2	760060442
SMB-8-1/2	Shelf Mounted Bracket for Eight 1/2" Cable Glands	760058651
SMB-4-3/4	Shelf Mounted Bracket for Four 3/4" Cable Glands	760058644



G2 Modules

The SYSTIMAX G2 Fiber Optic Shelf is the next generation (G2) high capacity, high-density fiber optic shelf. The G2 shelf can be used for a combination of splicing and termination of fiber optic building cable or outside plant (OSP) cables.

G2 modules are used with the 600G2 and 1000G2 modular shelf systems. The modules are fully interchangeable, and are available in SC, ST and LC for LazrSPEED, OptiSPEED and TeraSPEED Solutions. All G2 modules are pre-populated with fiber optic adapters and are offered with or without pre-assembled and factory-terminated pigtails.



Features and options of the un-terminated fiber modules include:

- LazrSPEED modules with twelve LC, six SC or six ST adapters
- OptiSPEED modules with twelve LC, six SC or six ST adapters
- TeraSPEED modules with twelve LC, six SC or six ST adapters
- All modules can be used on all SYSTIMAX G2 series shelves, including 600G2 and 1000G2

Features and options of the pre-terminated fiber modules include:

- LazrSPEED modules with twelve LC, six SC or six ST adapters, include 2-meters long pre-terminated LazrSPEED 550 pigtails
- OptiSPEED modules with twelve LC, six SC or six ST adapters, include 2-meters long pre-terminated pigtails
- TeraSPEED modules with twelve LC, six SC or six ST adapters, include 2-meters long pre-terminated pigtails
- One type of LC module is offered, containing 12 pigtails with colorized 0.9 mm tight-buffered cordages, following color sequence as defined by TIA standard
- Two types (type A and B) of SC or ST module are offered and should be ordered in pairs; each module contains 6 pigtails with colorized 0.9 mm tight-buffered cordages
- Type A SC/ST modules include colorized pigtails in Blue, Orange, Green, Brown, Slate and White; Type B SC/ST modules include colorized pigtails in Red, Black, Yellow, Violet, Rose and Aqua
- All modules can be used on all SYSTIMAX G2 series shelves, including 600G2 and 1000G2

G2 optional modular panel include:

- Blank panel with the same footprint as the fiber G2 module, and can be used in all SYSTIMAX G2 modular shelves including 600G2 and 1000G2
- Multimedia outlet bezel panel with the same footprint as the fiber G2 module, which accepts up to four M-Series jacks for multimedia applications

Product Number	Detailed Description	Material ID
MODG2-12LC-LS-PT	G2 Module with 12LC LazrSPEED 550 Pigtails	760027748
MODG2-6SC-LS-PT-A	G2 Module with 6SC LazrSPEED 550 Pigtails, Type A	760032227
MODG2-6SC-LS-PT-B	G2 Module with 6SC LazrSPEED 550 Pigtails, Type B	760034082
MODG2-6ST-LS-PT-A	G2 Module with 6ST LazrSPEED 550 Pigtails, Type A	760032235
MODG2-6ST-LS-PT-B	G2 Module with 6ST LazrSPEED 550 Pigtails, Type B	760034058
MODG2-12LC-MM-PT	G2 Module with 12LC OptiSPEED MM Pigtails	760031021
MODG2-6SC-MM-PT-A	G2 Module with 6SC OptiSPEED MM Pigtails, Type A	760032243
MODG2-6SC-MM-PT-B	G2 Module with 6SC OptiSPEED MM Pigtails, Type B	760034090
MODG2-6ST-MM-PT-A	G2 Module with 6ST OptiSPEED MM Pigtails, Type A	760032250
MODG2-6ST-MM-PT-B	G2 Module with 6ST OptiSPEED MM Pigtails, Type B	760034066
MODG2-12LC-SM-PT	G2 Module with 12LC TeraSPEED Pigtails	760031039
MODG2-12LCA-SM-PT	G2 Module with 12LCA TeraSPEED Pigtails	760065888
MODG2-6SC-SM-PT-A	G2 Module with 6SC TeraSPEED Pigtails, Type A	760032268
MODG2-6SC-SM-PT-B	G2 Module with 6SC TeraSPEED Pigtails, Type B	760034108

G2 Fiber
Connectivity

Product Number	Detailed Description	Material ID
MODG2-6ST-SM-PT-A	G2 Module with 6ST TeraSPEED Pigtails, Type A	760032276
MODG2-6ST-SM-PT-B	G2 Module with 6ST TeraSPEED Pigtails, Type B	760034074
MODG2-12LC-LS	G2 Module, E/W 12 LazrSPEED LC Adapters	760032136
MODG2-6SC-LS	G2 Module, E/W 6 LazrSPEED SC Adapters	760032144
MODG2-6ST-LS	G2 Module, E/W 6 LazrSPEED ST Adapters	760032151
MODG2-6SC-LS-B2	G2 Module, Bezel, E/W 6 LazrSPEED SC Adapters	760037846
MODG2-6ST-LS-B2	G2 Module, Bezel, E/W 6 LazrSPEED ST Adapters	760037861
MODG2-12LC-LS-B2	G2 Module, Bezel, E/W 12 LazrSPEED LC Adapters	760037812
MODG2-12LC-MM	G2 Module, E/W 12 OptiSPEED MM LC Adapters	760032169
MODG2-6SC-SM-APC	G2 Module e/w Angled Polished Connectors	760072322
MODG2-6SC-MM	G2 Module, E/W 6 OptiSPEED MM SC Adapters	760032177
MODG2-6ST-MM	G2 Module, E/W 6 OptiSPEED MM ST Adapters	760032185
MODG2-12LC-SM	G2 Module, E/W 12 TeraSPEED LC Adapters	760032193
MODG2-6SC-SM	G2 Module, E/W 6 TeraSPEED SC Adapters	760032201
MODG2-6ST-SM	G2 Module, E/W 6 TeraSPEED ST Adapters	760032219
MODG2-6ST-B2	G2 Module, Bezel, E/W 6 TeraSPEED ST Adapters	760037887
MODG2-6SC-SM-B2	G2 Module, Bezel, E/W 6 TeraSPEED SC Adapters	760027755
MODG2-12LC-SM-B2	G2 Module, Bezel, E/W 12 TeraSPEED LC Adapters	760037838
MODG2-Blank	G2 Blank Panel for G2 Modular Shelf	760032102
MODG2-MOB	G2 Multimedia Outlet Bezel for Modular Shelf,	760032110

Accept 4x Outlets with M-Series Openings, Outlet not Included



600G2 Fiber Optic Panel Shelf

The SYSTIMAX 600G2 System is a series of low-profile fiber optic combination shelves that are used for a combination of splicing and termination of fiber optic building cable or outside plant (OSP) cables. The shelf is designed for use as a termination shelf only (direct connector termination) or as a splice and termination shelf for up to 48 individual fibers.

The 600G2 panel shelf system is available in a 1U height fully enclosed shelf with integrated front cable management trough included. It features either a fixed tray or slide-out tray for easy access. A front faceplate of different configuration is required and can be ordered separately. The front faceplates accept standard simplex or duplex fiber optic adapters to provide flexibility.

Each 600G2 panel shelf is equipped with:

- Hinged front doors for easy access
- Front cable management trough
- Top cover panel
- Standard water-tight cable entry conduit connectors for OSP cable, cable diameter 0.25 in to 0.50 in (6.35 mm to 12.70 mm)
- Blank labels for identifying fiber splices and terminations

Physical Specifications:

Weight: 7.2 lbs (3.3 kg) – fixed
9.0 lbs (4.1 kg) – sliding

Overall Height: 1.75 in (4.45 cm)

Overall Width: 19 in (48.26 cm) (including mounting brackets)

Tray Depth: 10 in (25.4 cm)

Overall Shelf Depth: (includes trough) 14 in (35.56 cm) – fixed
18 in (45.72 cm) – sliding

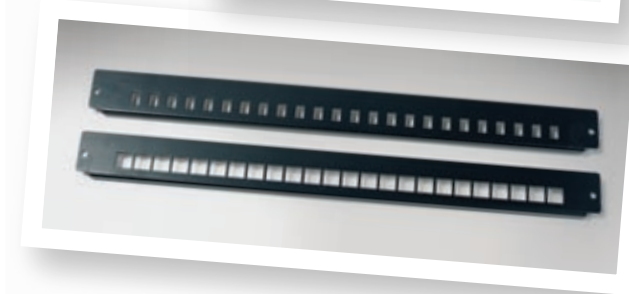
OSP Cable Capacity: 2

G2 Shelf

Product Number	Detailed Description	Material ID
600G2-1U-UP-FX	Shelf, 600G2, 1U, Fixed, No Bulkhead	760033928
600G2-1U-UP-SD	Shelf, 600G2, 1U, Sliding, No Bulkhead	760033936

600G2 Panels

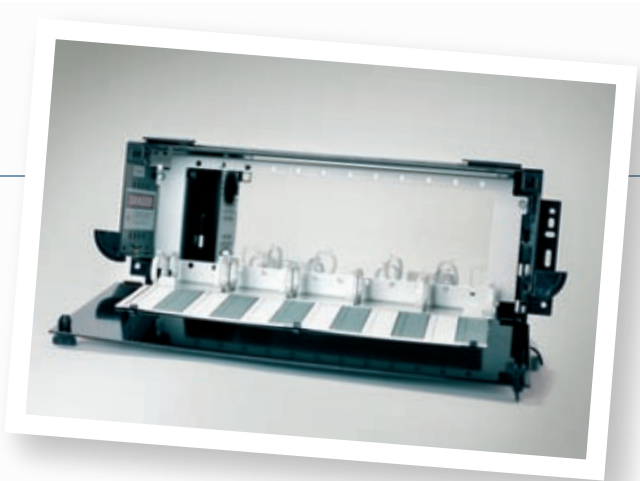
Product Number	Detailed Description	Material ID
600G2-96LC-DPLX-LS	600G2 Panel, w/96 Duplex LC Adapters, LazrSPEED	760055988
600G2-96LC-DPLX-MM	600G2 Panel, w/96 Duplex LC Adapters, OptiSPEED	760056044
600G2-96LC-DPLX-SM	600G2 Panel, w/96 Duplex LC Adapters, TeraSPEED	760056051
600G2-96LC-DPLX-SMAPC	600G2 Panel, w/96 Duplex LC Angled Polished Connectors, TeraSPEED	760069336
600G2-48LC-DPLX-00	600G2 Panel, Accepts 24 Duplex LC Adapters	760033845
600G2-24LC-SPLX-00	600G2 Panel, Accepts 24 Simplex LC Adapters	760033852
600G2-48SC-DPLX-00	600G2 Panel, Accepts 24 Duplex SC Adapters	760033860
600G2-24SC-DPLX-00	600G2 Panel, Accepts 12 Duplex SC Adapters	760033878
600G2-24SC-SPLX-00	600G2 Panel, Accepts 24 Simplex SC Adapters	760033886
600G2-12SC-SPLX-00	600G2 Panel, Accepts 12 Simplex SC Adapters	760033894
600G2-24ST-SPLX-00	600G2 Panel, Accepts 24 Simplex ST Adapters	760033902
600G2-12ST-SPLX-00	600G2 Panel, Accepts 12 Simplex ST Adapters	760033910
600G2-1U-UP	600G2 Face Plate, 1U, Accepts 4 G2 Modules	760060517
600G2-Fiber Drum Kit	600G2 Kit includes 2 Fiber Drums and Installation Hardware	760056549
600G2 Cover	600G2 Metal Cover for the Shelf	760055921



G2 Fiber
Connectivity

1000G2 Fiber Optic Panel Shelf

The SYSTIMAX 1000G2 Panel Shelf is the next generation (G2) high capacity, high-density fiber optic shelf, used for a combination of splicing and termination of fiber optic building cable or outside plant (OSP) cables. The shelf can be used for combined termination and splicing for up to 192 fibers and for up to 288 fibers if used for termination only (LC connections). It has a unique patent-pending design that combines both splicing and termination in a sliding format, which in turn provides both rear and full front access.



The 4U combination shelf is 14 inches deep, featuring additional 3 inches of depth for better incoming fiber management when used with 6 inch deep equipment mounting rails. It provides double density versus separate shelves for splicing and termination and improves slack fiber management. The new white internal structure improves visibility for the installer and slides out completely, providing easy access to all terminations.

The 1000G2 panel shelf system accepts up to twelve 1000-type panels or SYSTIMAX InstaPATCH Plus modules (For more information on this, please refer to the SYSTIMAX InstaPATCH Plus Modules Documentation). The 1000-type panels accept LC, SC or ST adapters, except for the high-density panels which include pre-populated adapters; 1000 type panels are in general offered unpopulated.

Completing the 1000G2 shelf offer is the patent pending "Splice Wallet", which provides easy access and administration of six individual splice trays. Each 1000G2 shelf will accommodate up to 12 G2 InstaPATCH modules/1000 series panels, and two "Splice Wallets".

Each 1000G2 panel shelf is equipped with:

- Hinged front and rear doors constructed of black polycarbonate and equipped (rear door) with knockouts for optional lock mechanism
- Universal shelf mounting brackets for 19 inch, 23 inch or ETSI frame mounting
- Cable entry protectors for incoming building fiber or OSP fiber
- Fiber jumper bend limiters
- Blank labels for identifying fiber splices and terminations
- Articulated splicing/termination panel that slides out and pivots for easy access

Physical Specifications:

Weight: 12 lbs (5.4 kg)
Height: 7 in (17.8 cm)
Width: 17 in (43.2 cm)
Depth: 14 in (35.6 cm)
OSP Cable Capacity: 4

Shelf System Capacity:

Application	Connection Type	1000G2 Modular System Capacity
Termination Only	LC	288
	SC	144
	ST	144
Termination + Fusion Splice	LC	192
	SC	144
	ST	144
Termination + Mechanical Splice	LC	192
	SC	144
	ST	144



G2 Shelf

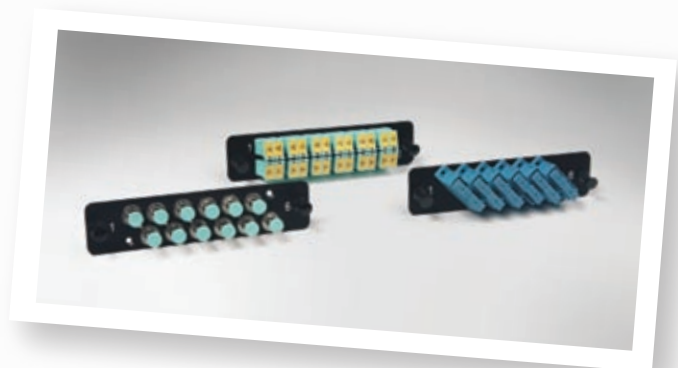
Product Number	Detailed Description	Material ID
1000G2-4U-IP-SD	Shelf, 1000G2, 4U, Sliding, Panel	760026245
1000G2-1U-IP-SD	Shelf, 1000G2, 1U, Sliding, Panel	760066084

Populated 1000G2 Panels

Product Number	Detailed Description	Max. Qty per Shelf	Material ID
1000-24LC-DPLX-LS	1000 Panel, E/W 12x LazrSPEED Duplex Adapters (Aqua)	12	760028209
1000-24LC-DPLX-MM	1000 Panel, E/W 12x MM Duplex Adapters (Beige)	12	760027441
1000-24LC-DPLX-SM	1000 Panel, E/W 12x SM Duplex Adapters (Blue)	12	760027433
1000-12LC-DPLX-LS	1000 Panel, E/W 6x LazrSPEED Duplex Adapters (Aqua)	12	760067173
1000-12LC-DPLX-MM	1000 Panel, E/W 6x MM Duplex Adapters (Beige)	12	760067157
1000-12LC-DPLX-SM	1000 Panel, E/W 6x SM Duplex Adapters (Blue)	12	760067165
1000-12SC-DPLX-LS	1000 Panel, E/W 6x LS Duplex Adapters (Aqua)	12	760066076
1000-12SC-DPLX-MM	1000 Panel, E/W 6x MM Duplex Adapters (Beige)	12	760021790
1000-12SC-DPLX-SM	1000 Panel, E/W 6x SM Duplex Adapters (Blue)	12	760027714
1000-12ST-SPLX-MM	1000 Panel, E/W 12x MM Simplex Adapters	12	760021832
1000-12ST-SPLX-SM	1000 Panel, E/W 12x SM Simplex Adapters	12	760027722

Unpopulated 1000G2 Panels

Product Number	Detailed Description	Max. Qty per Shelf	Material ID
1000-12LC-DPLX-00	1000 Panel, Accepts 6x Duplex LC Adapters	12	700011414
1000-8LC-SPLX-00	1000 Panel, Accepts 8x Simplex LC Adapters	12	760026369
1000-12SC-DPLX-00	1000 Panel, Accepts 6x Duplex SC Adapters	12	760024372
1000-6SC-DPLX-00	1000 Panel, Accepts 3x Duplex SC Adapters	12	700010952
1000-6SC-SPLX-00	1000 Panel, Accepts 6x Simplex SC Adapters	12	700011398
1000-8SC-SPLX-00	1000 Panel, Accepts 8x Simplex SC Adapters	12	700168966
1000-12ST-SPLX-00	1000 Panel, Accepts 12x Simplex ST Adapters	12	760024380
1000-6ST-SPLX-00	1000 Panel, Accepts 6x Simplex ST Adapters	12	700011406
1000-6ST-SPLX-00	1000 Panel, Accepts 6x Simplex ST Adapters, 12/pk	As needed	700011109
1000-Blank-WH	1000 Blank Panel, White, 6/pk	As needed	700162936



G2 Fiber
Connectivity

Splice Kits

Product Number	Detailed Description	Max. Qty per Shelf	Material ID
Pigtail Kit SC APC (1-6 Fiber)	Pigtail SC Angle Polished Connector Kit, TeraSPEED, 1-6 Fiber		760068114
Pigtail Kit SC APC (7-12 Fiber)	Pigtail SC Angle Polished Connector Kit, TeraSPEED, 7-12 Fiber		760068122
1W-03	3X Splice Wallet		760057059
SW-00	Splice Wallet, Accepts 6x Splice Trays (not included)	As needed	760027342
SW-03-FUS	3X Fusion Splice Wallet		760057075
SW-6AM-12SF	Mechanical Splice Wallet Kit for up to 144 Splices, Include 6 Splice Trays	2	760031047
SW-6AF-16SF	Fusion Splice Wallet Kit for up to 192 Splices, Include 6 Splice Trays	2	760031054
1AM1-12LG	Mechanical Splice Organizer, Holds 12 Splices, Pack of 10		700006240
1AMF1-16LG	Fusion Splice Organizer, Holds 16 Splices, Pack of 10		700006257
1AMF1-6LG	Mass Fusion Splice Organizer, Holds 6 Splices, Pack of 10		700006281
Pigtail Kit SC APC (1-6 Fiber)	Pigtail SC Angled Polished Connector Kit, TeraSPEED, 1-6 Fiber		760068114
Pigtail Kit SC APC (7-12 Fiber)	Pigtail SC Angle Polished Connector Kit, TeraSPEED, 7-12 Fiber		760068122

Accessories

Product Number	Detailed Description	Material ID
1000G2-CPB	Cable Protector Kit for 1000G2 Shelf	760026674
1000G2-XCPB	Expanded Cable Protector Kit	760058669
SMB-8-1/2	Shelf Mounted Bracket for Eight 1/2" Cable Glands	760058651
SMB-4-3/4	Shelf Mounted Bracket for Four 3/4" Cable Glands	760058644



Fiber Optic LIUs: 100A3, 200A, 200B, 400A2, 100LS and 200LS

The Fiber Optic LIU's are modular enclosures that provide cross-connect and/or inter-connect, splicing and terminating capabilities for outside plant, building and riser cables.

The 100A3 LIU terminates a maximum of 24 fibers using LC connectors and 12 fibers using STII+ or SC connectors. With an optional splicing kit, it can accommodate up to 12 mechanical or fusion splices. The 100A3 is made of an engineered polycarbonate material and can accommodate two connector panels or one splice unit. The 100A3 LIU is both wall and frame mountable (with an optional frame mounting bracket) and feature five retainer rings arranged in a circular configuration to hold slack while not violating minimum bend radius requirements.

The 200A LIU has similar features as the 100A3 except that it is made of aluminum and has two additional windows for connector panels. The 200A LIU terminates 48 fibers using LC connectors and 12 fibers using STII+ or SC connectors. With an optional splicing kit, it can accommodate up to 24 splices.

The 200B LIU is used to terminate up to 48 fibers or splice 24 fibers. It is a National Electrical Manufacturers Association (NEMA) four-rated cabinet. The 200B is a steel enclosure designed for industrial applications. The right side is designed to allow rearrangement of jumpers or inter-connection to building cable. It comes with a removable outer door and an inner door for securing the network section. The 200B is both wall and frame mountable.

The 400A2 LIU directly terminates up to 96 fibers or accommodates 24 splices plus 48 terminations. The 400A may be ordered with or without key locks.

The wall mountable 100LS LIU terminates up to 24 fibers using LC connectors and up to 12 fibers using STII+ or SC connectors. With an optional splicing kit it can accommodate up to 12 mechanical or fusion splices. The 100LS holds two 10P panels.

The wall mountable 200LS LIU terminates up to 48 fibers using LC connectors and up to 24 fibers using STII+ or SC connectors. It can accommodate up to 12 mechanical or fusion splices using an optional splicing kit. The 200LS can accommodate up to 24 mechanical or fusion splices with optional splicing kits, but the fiber termination capacity is decreased to 12 STII+ or SC connections, or 24 LC connections. The 200LS holds four 10P panels.

The LIU adapter panels can be ordered separately and are detailed in the LST and LIU panel section.

The 742A mounting panel allows up to two 100 or 200 LIUs or one 400 LIU to be mounted in an inter-connection or cross-connect fashion. The panel may be mounted on either a 19 inch or a 23 inch (48.3 cm or 58.4 cm) frame.

The 1A1 adapter includes a 10 in (25.4 cm) conduit, a T-section, a 90-degree bend, two guides and two mounting screws. The adapter is used to guide and protect fibers running from a 12A-type clamp into two adjacent columns of LIUs. Each 100A3/200A LIU requires one 1A1 adapter. The 12A clamp must be ordered separately.

Physical Specifications:

Height: 100A3, 200A, 100LS, 200LS: 8.75 in (22.22 cm)
200B: 12.6 in (32.0 cm)
400A2: 11 in (27.94 cm)
Width: 100A3, 200A, 100LS, 200LS: 7.5 in (19 cm)
200B, 400A2: 17 in (43.18 cm)
Depth: 100A3, 100LS: 3 in (7.62 cm)
200A, 400A2, 200LS: 4 in (10.16 cm)
200B: 5.25 in (13.34 cm)



Additional
Fiber
Connectivity

LIU Termination and Splice Configuration and Capacity:

LIU	No. of Terminations	No. of Splices	Additional Parts Needed
100A3 100LS	12 SC/ST (24 LC)	0	2 Panels with Adapters
	12 SC/ST (24 LC)	12	2 Panels with Adapters and 1 Splice Kit
	0	24	2 Blank Panels and 1 Splice Kit + 1 Suppl. Kit
200A 200LS 200B	24 SC/ST (48 LC)	0	4 Panels with Adapters
	24 SC/ST (48 LC)	12	4 Panels with Adapters and 1 Splice Kit
	12 SC/ST (48 LC)	24	2 Panels with Adapters + 2 Blank Panels, and 1 Splice Kit + 1 Suppl. Kit
	0	36	4 Blank Panels, 2 Splice Kits + 1 Suppl. Kit
400A	48 SC/ST (96 LC)	0	8 Panels with Adapters
	48 SC/ST (96 LC)	12	8 Panels with Adapters and 1 Splice Kit
	36 SC/ST (72 LC)	24	6 Panels with Adapters + 2 Blank Panels, and 1 Splice Kit + 1 Suppl. Kit
	0	36	8 Blank Panels, 2 Splice Kits + 1 Suppl. Kit

Product Number	Material ID
100A3 LIU	106896947
200A LIU	105535926
200B2 LIU	106939564
400A1 LIU w/o locks	106266901
400A2 LIU w/ locks	106414170
100LS LIU	108548868
200LS LIU	108548876
100A2 LIU E/W ST COUPLERS	106772668
100A2 LIU E/W ST MM COUPLERS	700179419
100/200 LIU - Cartridges	760060426
100/200 LIU - Adapters	760060434
100/200 LIU - Modules	760060418
110B2 LIU	107942203
SHLF-210B2 (LIU) CAB 10X	108030347
1A1 LIGHTGUIDE HOLDER	105034474
742A	105483218
1A1 Adapter	105034482
10 BB Blank Panel	760046730

1A4 and 2A4 Vertical Fiber Optic Trough

The 1A4 and 2A4 Fiber Optic Troughs are vertical aluminum troughs used to arrange fiber patch cords vertically from one LIU to another in a multi-unit fiber cross-connect. The 1A4 trough is used with a 100A3 LIU. The 2A4 vertical trough is used with the 200A LIU. Two mounting screws are included.

Physical Specifications:

Height: 8.75 in (22.2 cm)

Width: 4.0 in (10.2 cm)

Product Number	Detailed Description	Material ID
1A4	For use with 100A3 LIU	104141866
2A4	For use with 200A LIU	106497753



1A6 and 2A6 Horizontal Fiber Optic Trough

The 1A6 and 2A6 Fiber Optic Troughs are horizontal aluminum troughs used to arrange patch cords so they run horizontally between Fiber Optic Interconnection Units (LIUs) or 1A4 or 2A4 Troughs. The 1A6 Fiber Optic Troughs may be used with 100A3 LIUs and 1A4 Fiber Optic Troughs. The 2A6 Fiber Optic Trough is used to connect vertical columns of 200A LIUs and 1A6 Jumper Troughs. The 2A6 Trough should be specified with single columns when protection and retention of cross-connect jumper cable slack is needed. Two mounting screws are included.

Physical Specifications:

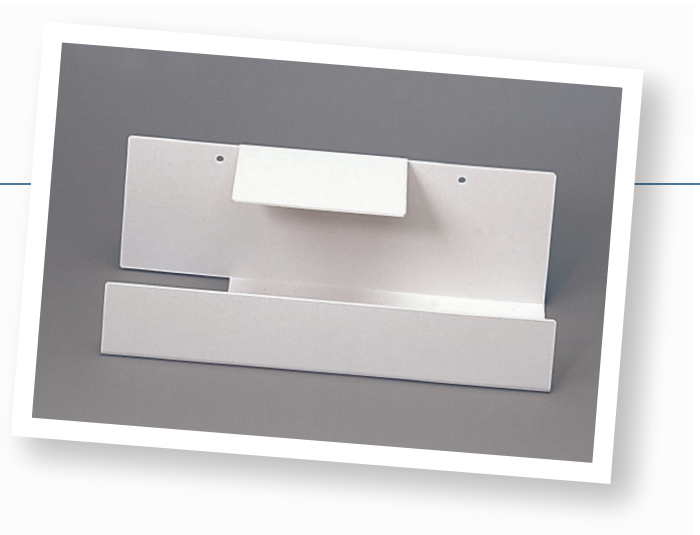
Height: 1A6: 4.0 in (10.2 cm)

2A6: 5.0 in (12.7 cm)

Width: 11.5 in (29.2 cm)

Depth: 1A6: 4.0 in (10.2 cm)

2A6: 5.0 in (12.7 cm)

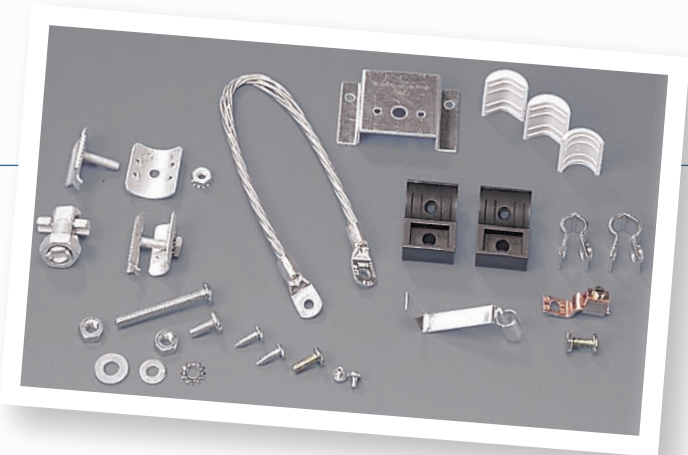


Product Number	Detailed Description	Material ID
1A6	For use with 100A3 LIU	104141874
2A6	For use with 200A LIU	106497761

12A Clamp

The 12A1 Clamp is used to secure and ground one fiber optic metallic sheath cable. The clamp consists of a mounting bracket, two plastic half-clamps and suitable grounding hardware.

The 12A2 Clamp is similar to the 12A1 Clamp, but it does not include bonding and grounding hardware. The 12A2 Clamp is intended for use on non-metallic sheath fiber optic cables.



Product Number	Detailed Description	Material ID
12A1 Clamp	Clamp for Metallic Sheath Cable	700025513
12A2 Clamp	Clamp for Dielectric Sheath Cable	700025653

Additional
Fiber
Connectivity

Fiber Optic Splice and Termination Shelves

The LST and LSTSY Fiber Optic Termination Shelves are used for termination of buffered fiber optic building cables or direct termination of outside plant fibers.

The LSTSY OptiSPEED Termination Shelf can be equipped with adapter panels to terminate up to 144 fibers using LC connectors, or 72 fibers using ST or SC connectors. The adapter panels can be found under the LST and LIU panel section.

The LSTSY Termination Shelf accommodates 12 multiport adapters, which can be found in the fiber connector and adapter section. Cable slack is maintained behind each adapter panel.

The LSTLS termination shelf comes equipped with color-coded LazrSPEED adapter strips for convenient ordering and is available with LC, STII+ and SC adapters. This shelf is designed for mounting in a 19 inch frame for enterprise applications.

The Fiber Optic Shelf Splice (LSS) is generally used with two termination shelves or in splice-only applications to store individual mechanical or fusion splices.

The Fiber Optic Shelf Combination (LSC) is used for a combination of splicing and termination of outside plant cables or Fiber Optic Building Cable. The shelf is designed to be used as a termination shelf only (direct connector termination) or used as a splice and termination shelf by using pigtails.

The Fiber Optic Shelf Jumper Storage (LSJ) is used to store slack in pre-assembled cross-connect or inter-connect jumpers or take up slack in buffered cables routed from equipment or outside plant cables.

The Fiber Optic Shelf Terminating Unit is a 2.5 inch (6.35 cm) high shelf assembly that can be mounted into a 23 inch (48.3 cm or 58.4 cm) frame. This shelf has a total of two pivoting trays that each will accommodate termination of up to 24 fibers using ST connectors. Two bend limiting drums are included with each tray to prevent bending fibers less than 3 inch (7.62 cm) diameter.

Physical Specifications:

Height: LST1U-072/7 and LST1F-072/7: 7 in (17.8 cm)

LST1U-144/9: 9 in (22.9 cm)

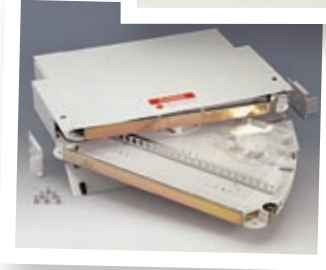
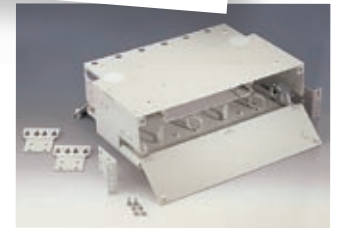
LSC and LSJ: 5 in (12.7 cm)

LSTIP: 2.5 in (6.3 cm)

Width: 17 in (43.2 cm)

Depth: 11 in (27.9 cm)

OSP Cable Capacity: 4



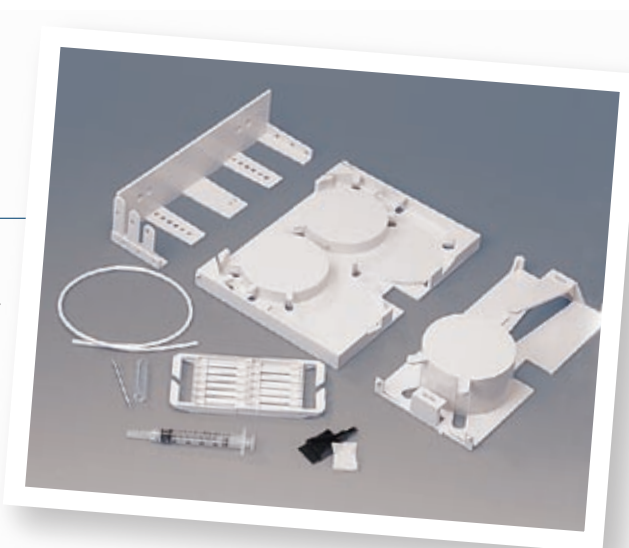
Product Number	Detailed Description	Material ID
LST1U-072/7	Direct Termination of 72 Individual Fibers	700007289
LST1U-144/9	Direct Termination of 144 Individual Fibers	700007214
LST1U-144/9-B	Direct Termination of 144 Individual Fibers, Black	760010207
LSS1U-1444/7-3	Splice Shelf for Splicing Only of 144 individual fibers,Black	760026351
LSS1U-144/7	Splice Shelf for Splicing Only, of 144 Individual Fibers, 4U	700007222
LSS1U-072/5-S	Side Access Splice Shelf for Splicing Only, of 72 Individual Fibers, 3U	700225790
LSS1U-072/5	Splice Shelf for Splicing Only, of 72 Individual Fibers, 3U	700007230
LSC2U-024/5	Splicing and/or Direct Termination of 24 Individual Fibers	700007255
LSJ1U-072/5	Storage of Jumper Cable Slack	700007248
LST1P-48ST/2.5	Direct Termination of 48 Fibers Using ST Connectors.	700007263

D-181706 and D-181707 Mechanical and Fusion Splice Adapter Kits

The D-181706 and D-181707 Splice Adapter Kits adapt the 100, 200 and 400 LIUs for mechanical and fusion splicing, respectively. One D-Kit is required for the first 12 fibers, and one supplemental kit per unit is required for each additional set of 12 fibers.

D-181706 and D-181707 include Bracket Support with Screws (1), Drum Adapter (1), Splice Tray (1), PVC Tubing (1), Mechanical or Fusion Splice Organizer (1) and Instruction Sheet (1).

Supplemental Kits include Splice Tray (1), PVC Tubing (1) and Mechanical or Fusion Splice Organizer (1).

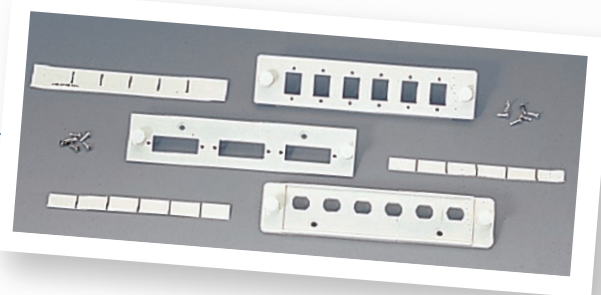


Product Number	Detailed Description	Material ID
D-181706	Mechanical Splice Kit	105289656
	Supplemental Mechanical Splice Kit	106726714
D-181707	Fusion Splice Kit	105289664
	Supplemental Fusion Splice Kit	106726706
LT1A-F/F	Fusion Splice Organizer (Retains 32 Splices)	700025588
LT1A-M/M	Mechanical Splice Organizer (Retains 24 Splices)	700217045
	Splice Tray Holder	700005069

Additional
Fiber
Connectivity

Fiber Optic Panels for LST and LIU Shelves

The fiber optic panels are used to hold ST, SC and LC adapters. They can be mounted on various fiber optical shelves. Adapters are not included unless otherwise noted. The 1000 series panels work with the LST1U 72/7, LST1F 72/7, 400 LIU and the LSC2U 24/5 shelves. The 1200 series panels work with the LST1U 144/9 shelf. The 10 series panels work with the 100 and 200 LIU.



Physical Specifications:

Height: 10-Type: 3.8 in (9.7 cm)

1000-Type: 5.1 in (13.0 cm)

1200-Type: 7.1 in (18.0 cm)

2200-Type: 7.1 in (18.0 cm)

Width: 10-Type: 1.5 in (3.8 cm)

1000-Type: 1.1 in (2.8 cm)

1200-Type: 1.1 in (2.8 cm)

2200-Type: 2.2 in (5.6 cm)

Product Number	Detailed Description	Material ID
1000-12LC-DPLX	Panel for 6 Duplex LC Adapters (4U)	700011414
1000-8LC-SPLX	Panel for 8 Simplex LC Adapters (4U)	760026369
1000-6SC-DPLX	Panel for 3 Duplex SC Adapters (4U)	700010952
1000-6SC-SPLX	Panel for 6 Simplex SC Adapters (4U)	700011398
1000-6ST-SPLX-00	Panel for 6 Simplex ST Adapters (4U)	700011406
1000-6ST-SPLX-00	Panel for 6 Simplex ST Adapters, Pack of 12 (4U)	700011109
1000-Blank-WH	Blank Panel (4U), Pack of 6	700162936
1200-18LC-DPLX	Panel for 9 Duplex LC Adapters (5U)	700208762
1200-12SC-SPLX	Panel for 12 Simplex SC Adapters (5U)	700162910
2200-24SC-DPLX-WH	Panel for 12 Duplex SC Adapters, Double Width (5U)	760006197
2200-24SC-DPLX-BK	Panel for 12 Duplex SC Adapters, Double Width (5U), Black	760010199
12-12ST-SPLX	Panel for 12 Simplex ST Adapters, (5U)	700208754
1200-Blank-WH	Blank Panel (5U), Pack of 6	700209653
10PLC-LS	Panel includes 12 LC Adapters, LazrSPEED	108627266
10PLC-MM	Panel includes 12 LC Adapters, OptiSPEED	108491697
10PLC-SM	Panel includes 12 LC Adapters, Singlemode	700025984
10PSC-LS	Panel includes 6 SC Adapters, LazrSPEED	108627274
10PSC-MM	Panel includes 6 SC Adapters, OptiSPEED	108259458
10PSC-LS	Panel includes 6 SC Adapters, Singlemode	700011430
10PST-LS	Panel includes 6 ST Adapters, LazrSPEED	108627282
10PST-MM	Panel includes 6 ST Adapters, OptiSPEED	108259466
10PST-SM	Panel includes 6 ST Adapters, Singlemode	700011422
10LC1-DPLX	Panel for 6 Duplex LC Adapters	107783755
10SC1-DPLX	Panel for 3 Duplex SC Adapters	107025835
10A (ST)	Panel for 6 Simplex ST Adapters	104141858
10 Blank	Blank Panel for 100LIU/200LIU	105276570
10LC Connector Panel	100A3 and 200A LIU and holds 6 Simplex LC Adapters	108365701
10SC1 Panel	100A3 and 200A LIU and holds 6 Simplex SC Adapters	106371800
10FC/04	10 TYPE FC/04 Connector Panel	105310999
10 TYPE	F93AK8524, 10 Type Connector Panel	107005068
10SC1 CONN PNL	F94AK8500, 10SC1 Connector Panel L E/W	107212490
LG 10B2/48/24	FANOUT AASY, LG 10B2/48/24	107939902
LGX LOCK SET	LGX LOCK SET	700011091
FDDI Panel	100A3 and 200A LIU Panel holds 3 MIC-to-ST C4010 Series Adapters	106021470

Additional
Fiber
Connectivity

Surface Mount Enclosure for Fiber Optic Applications

SYSTIMAX Solutions Surface Mount Enclosure is used for a combination of splicing and termination of fiber optic building cables, outside plant (OSP) cables or InstaPATCH Plus installations. The enclosure can be used for combined termination and splicing for up to 96 fibers depending on adapter type and configuration and the enclosure can be configured for multiple adapter applications.

The SME boxes are wall-mounted enclosures that are designed to accommodate terminations of up to 96 LC fibers or 48 SC or ST fibers. The enclosures can also be used as splice units to store 96 Single Fusion Splices, 72 Mechanical Splices with the addition of the appropriate splice holders. The overall dimensions of the shelf are 11 inches (279 mm) high, 13 inches (330 mm) wide, and 3.7 inches (94 mm) deep.



Features and Benefits

- Two models are offered, one for four 1000 Series panels or InstaPATCH Plus modules and one for four G2 modules or panels
- Security covers for BTW & Patch side
- Mount on wall at various orientations
- User access and behind the wall access are independently secured with separate pad locks (not included)
- Cable mounting with strain relief fitting
- Fiber cable protection on patch side
- RoloSplice kits available
- Cable Clamp compatible (not included)

Physical Specifications:

Depth: 3.7 in (9.4 cm)

Height: 11 in (27.9 cm)

Cable Capacity: 8

Width: 13 in (33.0 cm)

Weight: 13 lbs (5.9 kg)

Cable Access Port OD:

Large cable fitting entry 1.050 in (2.667 cm)

Small cable fitting entry .550" (1.397 cm)

Panel System Capacity:

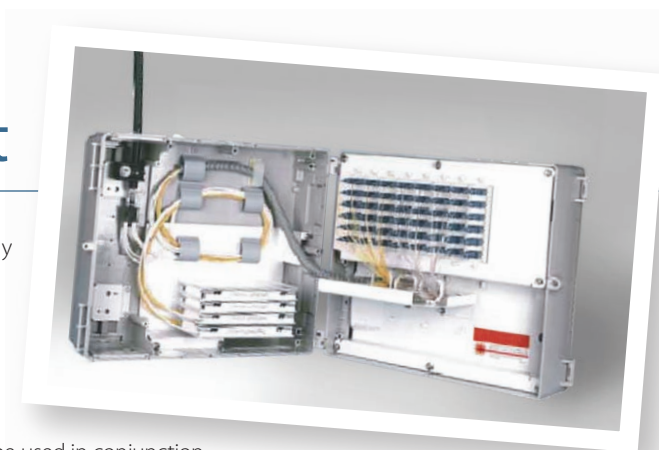
Connection Type	InstaPATCH Plus Module 1000 Series Panel System Capacity	G2 Cartridge System Capacity
LC	96	48
SC	48	24
ST	48	24

Product Number	Detailed Description	Material ID
SME-4-IP	Surface mount enclosure configured for four 1000 Series panels or InstaPATCH Plus modules	760060418
SME-4-G2	Surface mount enclosure configured for four G2 modules or panels	760060426
RS-2AM-12SF	RoloSplice Kit E/W 2x Mechanical Splice Tray	760039859
RS-2AF-16SF	RoloSplice Kit E/W 2x Fusion Splice Tray	760039867
RS-4AM-12SF	RoloSplice Kit E/W 4x Mechanical Splice Tray	760031849
RS-4AF-16SF	RoloSplice Kit E/W 4x Fusion Splice Tray	760031856

Additional
Fiber
Connectivity

489 Fiber Optic Interconnection Unit

The 489 Fiber Optic Interconnection Unit (FIU) complete family of modular enclosures is designed to provide a solution for terminating, splicing, managing and protecting fiber optic cables. The units are designed to be installed in building entrances, equipment rooms, or any place where fiber optic cables interconnect or terminate in a protective area.



The 489 FIU product line features three different units. Each can be used in conjunction with the others while preserving its own specific function.

The 489 Splice Unit provides storage for multiple fiber optic splices.

The 489 Combination Unit provides for both splicing and termination of optical fibers in one unit. This unit is configured by ordering the appropriate termination unit and the 489FC1A-4RACK splice organizer. The 489FC1A-4RACK can be mounted in a termination unit to hold (4) organizers, thereby forming a combination unit.

The 489 Interconnection Unit is a side facing termination unit that provides for interconnection of both incoming and outgoing cables within the same enclosure.

Physical Specifications:

Weight: Termination Unit: 6.2 lbs (2.8 kg)
Splice Unit: 6.4 lbs (2.9 kg)
Combination Unit: 7.6 lbs (3.5 kg)
Interconnection Unit: 4.0 lbs (1.8 kg)

Height: 12.5 in (31.8 cm)

Width: 15.0 in (38.1 cm)

Depth: Termination Unit and Combination Unit: 8.30 in (21.1 cm)
Splice Unit and Interconnection Unit: 5.30 in (13.5 cm)

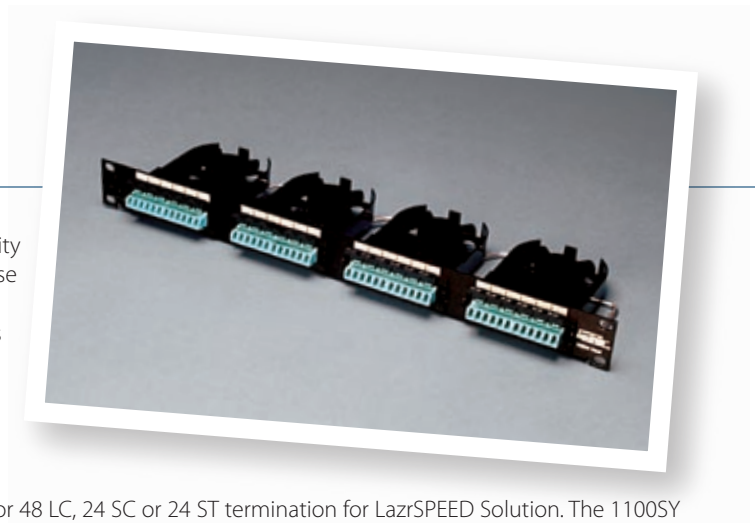
Material: UL approved, flame retardant, polycarbonate

Color: Ultra light gray

Product Number	Detailed Description	Material ID
489FS1-144	Splice Unit E/W Organizer Rack—Accepts (12) Splice Organizers	108314378
489FS1-12FS	Splice Organizer Kit—Holds (4) 12-Fiber Fusion Splice Organizers	108314345
489FC1A-4RACK	Splice Organizer Rack	108314295
489FI1-024SC	Interconnection Unit E/W 24 SC Simplex Adapters	108314311
489FI1-024ST-MM	Interconnection Unit E/W 24 ST MM Adapters	108314329
489FI1-024ST-SM	Interconnection Unit E/W 24 ST SM Adapters	108314337

1100 Fiber Distribution Panel

The LazrSPEED 1100 Fiber Distribution Panel is a high-quality panel for terminating or inter-connecting fibers in a premise wiring system. The shallow panel depth makes the 1100 ideal for wall-mounted racks. Front access to the connectors behind the adapter strip is possible simply by removing the adapter bezel from the panel. The trim design and front access make the 1100 panel an excellent solution for cramped and crowded telecommunications rooms.



The 1100LS Distribution Panel is equipped with adapters for 48 LC, 24 SC or 24 ST termination for LazrSPEED Solution. The 1100SY panel requires four multiport adapters, which can be found in the fiber connector and adapter section.

Physical Specifications:

Height: 1.72 in (4.37 cm)–1U rack space

Width: 19 in (48.26 cm)

Depth: 4.75 in (12.07 cm)

Product Number	Detailed Description	Material ID
1100SY	Distribution Panel	700006364
1100LS/MM/LC-48 LC	LazrSPEED Panel	108565557
1100LS/MM/SC-24 SC	LazrSPEED Panel	108565573
1100LS/MM/ST-24 ST	LazrSPEED Panel	108565581
MOD-G2-cover	Modular Cover, Pack of 12	760041897

Additional
Fiber
Connectivity

LC Connectors



The LC Connector is a revolutionary fiber optic connector. This small form factor connector is only half the size of ST or SC connectors yet it has superior optical performance and reduced installation time. It uses the familiar insertion release mechanism similar to an RJ-45 plug and has a pull-proof design. Fast becoming the connector of choice, the physical and optical performance of the LC allows engineers to design optical fiber infrastructures suited to the low loss needs of the High-Speed Data Networks. The LC connector offers a complete connection solution with a product range designed for field termination onto 0.9 mm fiber, 1.6 mm fiber cordage, multimode and singlemode fiber.

The high-performance LC connector is the recommended connector for all SYSTIMAX installations. The superior insertion loss performance offered by the LC connector makes it the ideal connector for gigabit applications including all proposed 10 gigabit Ethernet specifications for multimode and singlemode fiber. The 0.9 mm fiber connector is designed to allow for the simple and speedy termination of the connector onto 0.9 mm fiber. So, whether terminating a cable into a patch panel, connection box or outlet, the LC connector offers the best-in-class solution.

The LC fiber optic simplex and duplex jumper connector can be used to terminate simplex and duplex 1.6 mm jumper cords. It is intended for use in central offices, local area networks (LANs) and in patch cords for premises distribution systems. The connector can also be used in computer backplane connections, computer peripheral interconnections, device terminations and other applications where quality, small-size, high-density, low-loss and a low-cost infrastructure are required.

The D-182959 upgrade kit (700005853), used in conjunction with tool kits 1032B5 or 1032F1, provides the necessary tools to terminate LC connectors to 0.9 mm buffered fiber or 1.6 mm cordage. For termination to 0.9 mm buffered fiber only, the D-182905 upgrade kit (700005895) may be used with the 1032B5 or 1032F1 kits. The 1032H mini tool kit (700005838) may be used to terminate LC connectors to 0.9 mm buffered fiber using the EZ anaerobic adhesive method. Additionally, the appropriate consumable kits are required to complete terminations.

The Pre-Radiused LC and the flat end-face LC use two different consumable kits and instructions. Please refer to the Fiber Optic connector consumable kit section in the catalog for details or reference the instruction sheets for the appropriate connector from the Systimax Solutions Web site Instructions Sheets.

Physical Specifications:

Length: 1.259 in (3.2 cm)

Tip: Ceramic

Optical Specifications:

Multimode: Average Loss: 0.1 dB Standard deviation 0.1 dB

Singlemode: Average Loss: 0.2 dB Standard deviation 0.1 dB

Insertion Loss Change: <0.3 dB Mating durability for 500 reconnect
<0.3 dB Temperature stability -40°F to 167°F (-40°C to 75°C)

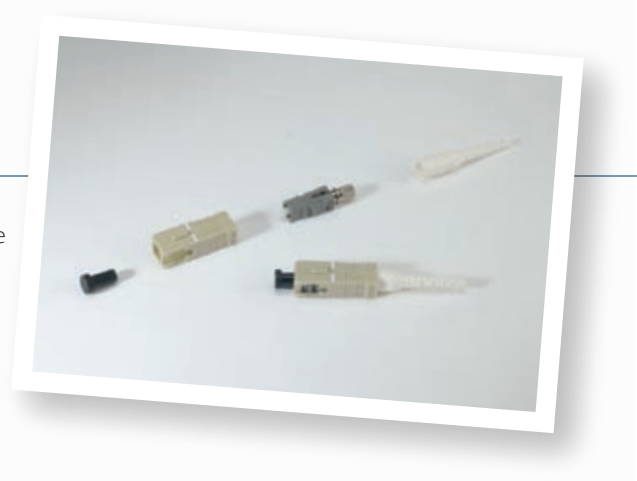
Cable Retention: 2 lbs for buffered fiber, 10 lbs for 1.6 mm cordage

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
P1001A-Z-125	BTW LC Connector for 0.9 mm Buffered Fiber	MM	Beige	1	700007008
P1001A-Z-125R	BTW LC Connector, Pre-radiused, for 0.9 mm Buffered Fiber	MM	Beige	1	760034181
P1001A-Z-125R/100	BTW LC Connector, Pre-radiused, for 0.9 mm Buffered Fiber	MM	Beige	100	760031393
P1002A-Z-125R-1000	BTW LC Connector, Pre-radiused, for 0.9 mm Buffered Fiber	MM	Beige	1000	760065383
P1101A-Z-125	BTW LC Connector for 0.9 mm Buffered Fiber	SM	Blue	1	700011372
P1101A-Z-125R	BTW LC Connector for 0.9 mm Buffered Fiber, Pre-radiused	SM	Blue	1	760034199
P1101A-Z-125R/100	BTW LC Connector for 0.9 mm Buffered Fiber, Pre-radiused	SM	Blue	100	760031401
P1000A-Z-125	LC Connector for 1.6 mm Cordage, Simplex	MM	Beige	1	700004260
P1000A-Z-125R	LC Connector for 1.6 mm Cordage, Simplex, Pre-radiused	MM	Beige	1	760034140
P1002A-Z-125	LC Connector for 1.6 mm Cordage, Duplex	MM	Beige	1	700006992
P1002A-Z-125/100	LC Connector for 1.6 mm Cordage, Duplex	MM	Beige	100	700006307
P1002A-Z-125R	LC Connector for 1.6 mm Cordage, Duplex, Pre-radiused	MM	Beige	1	760034157
P1002A-Z-125R/100	LC Connector for 1.6 mm Cordage, Duplex, Pre-radiused	MM	Blue	100	760034165
P1002A-Z-125R-1000	LC Connector for 1.6 mm Cordage, Duplex, Pre-radiused	MM	Beige	1000	760065409
P1100A-Z-125	LC Connector for 1.6 mm Cordage, Simplex	SM	Blue	1	700071830
P1100A-Z-125R	LC Connector for 1.6 mm Cordage, Simplex, Pre-radiused	SM	Blue	1	760034173
P1000A-Z-125/100	LC Connector for 1.6 mm Cordage, Simplex	MM	Beige	100	760033191
LC Duplex Clip	LC Duplex Clip, Polarity Reversible	N/A	Blue	1000	760039669

Fiber
Connectors
& Adapters

SC Connectors

The SC Multimode Fiber Optic Connector is a field mountable, tuneable connector which utilizes a domed zirconia ferrule for fiber alignment and push-pull hardware that provides easier connections as well as high optical stability. The connector can be used in high-density applications while not being affected by axial cable loads. The cable is crimped to the outer hardware and therefore prevents momentary disconnect when axial load is placed on the cable. Available in multimode and singlemode versions.



There are two series of SC connectors. Both have equivalent performance in general. While the SC-B series connector offers lower cost to customers, the SC-A series connector can achieve improved performance when tuned in the field.

SC connector plugs can be mounted on fibers in the field using the 1032B5, 1032B6 or 1032F1 Tool Kit. When mounting to only 0.9 mm buffered fiber, the 1032H Tool Kit may be used.

Physical Specifications:

Length: A Series: 2.2 in (5.6 cm)

B Series: 2.05 in (5.2 cm) for 900 μ m application

B Series: 2.2 in (5.6 cm) for 3 mm application

Operating Temperature: -40°F to 185°F (-40°C to 85°C)

Min. Axial Load: Cable: 29.92 lbs (13.6 kg)
Buffer: 1.98 lbs (0.9 kg)

Optical Specifications:

Average Loss: Multimode: 0.3 dB

Singlemode: 0.2 dB (tuned), 0.3 dB (untuned) for
A-series SC connectors

Maximum Loss: MM and SM: 0.5 dB

Mating Durability: Insertion loss change for 200 reconnects:
<0.3 dB (test per Telcordia GR326)

Temperature Stability (-40°C to 75 °C): = < 0.3 dB increase

SC-B Series Connectors

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
P6201B-Z-125	BTW SC-B Connector for 0.9 mm Buffered Fiber	MM	Beige	1	760007070
P6201B-Z-125-100	BTW SC-B Connector for 0.9 mm Buffered Fiber	MM	Beige	100	760007088
P6200B-Z-125	SC-B Connector for 3.0 mm Cordage, Simplex	MM	Beige	1	760007047
P6200B-Z-125-100	SC-B Connector for 3.0 mm Cordage, Simplex	MM	Beige	100	760007054
P6200B-Z-125-1000	SC-B Connector for 3.0 mm Cordage, Simplex, Bulk	MM	Beige	1000	760007062
P6001B-Z-125	BTW SC-B Connector for 0.9 mm Buffered Fiber	SM	Blue	1	760007112
P6001B-Z-125-100	BTW SC-B Connector for 0.9 mm Buffered Fiber	SM	Blue	100	760019562
P6000B-Z-125	SC-B Connector for 3.0 mm Cordage, Simplex	SM	Blue	1	760007096
P6000B-Z-125-100	SC-B Connector for 3.0 mm Cordage, Simplex	SM	Blue	100	760019554
P6000B-Z-125-1000	SC-B Connector for 3.0 mm Cordage, Simplex, Bulk	SM	Blue	1000	760007104
P6001B-Z-125-1000	SC Connector for 0.9 mm Buffered Cordage	SM	Blue	1000	760019588
P6201B-Z-125-1000	BTW SC-B Connector for 0.9 mm Buffered Fiber	MM	Beige	1000	760019570
P620 2B-Z-125-100	B MM Connector for 1.6 mm Cordage	MM	Beige	100	760033100
P6000A-Z-125-1000	SC Connector for 3.0 mm Cordage	SM	Blue	1000	700005481

SC-A Series Connectors

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
P6201A-Z-125	BTW SC-A Connector for 0.9 mm Buffered Fiber	MM	Beige	1	700007024
P6201A-Z-125-100	BTW SC-A Connector for 0.9 mm Buffered Fiber	MM	Beige	100	700004278
P6200A-Z-125	SC-A Connector for 3.0 mm Cordage, Simplex	MM	Beige	1	700007040
P6200A-Z-125-100	SC-A Connector for 3.0 mm Cordage, Simplex	MM	Beige	100	700004286
P6001A-Z-125	BTW SC-A Connector for 0.9 mm Buffered Fiber	SM	Blue	1	700006976
P6000A-Z-125	SC-A Connector for 3.0 mm Cordage, Simplex	SM	Blue	1	700006984
P6200A-Z-125-1000	SC Connectors fo 3.0 mm Cordage	MM	Beige	1000	700005473
2A2 Duplex Clip for SC	Duplex Clip for SC-B Connectors	MM/SM	Black	10	760005132
P6280A-Z	Quick Light SC Connector	MM	Beige	1	108310236
2A2X SC Duplex Clip	Duplex Clip to Hold Two Connectors	MM/SM	Black	100	760033126

BTW—Behind the Wall

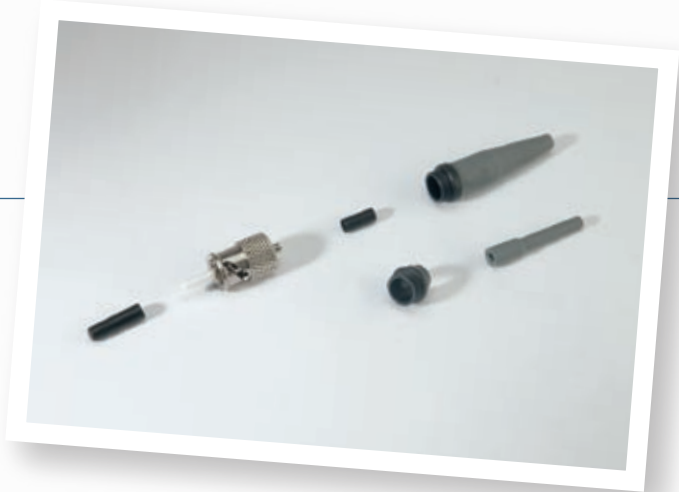
STII Connectors

The STII Connector is a keyed ceramic fiber optic connector that uses a bayonet-type “ramped-latching” mounting arrangement. The STII Connectors feature either domed zirconia or flat alumina. STII Connectors will accept 125 micron outside diameter multimode fiber.

The design of the STII provides high optical performance and easy mounting in a rugged, compact connector plug.

The STII can mount on either 0.9 mm buffered fiber, 2.4 mm or 3.0 mm cordage (or equivalent). The STII is available in both singlemode and multimode.

STII Connector plugs can be mounted on fibers in the field using the 1032B5, 1032B6 or 1032F1 Tool Kits. The 1032H Tool Kit may be used when mounting connectors on 0.9 mm fiber.



Physical Specifications:

Length: 2.2 in (5.6 cm)

Temperature Stability -40°F to 185°F (-40°C to 85°C): <0.1 dB increase

Loss Repeat (500 Reconnectors): <0.2 dB

Min. Axial Load: Cable: 35 lbs (15.9 kg)

Optical Specifications:

Multimode Average Loss: 0.3 dB

Singlemode Average Loss: 0.3 dB

STII Connector

Product Number	Detailed Description	Fiber Type	Cordage OD(mm)	Qty/Pkg	Material ID
P2020C-Z-125	STII Connector, Domed Zirconia Ferrule	MM	0.9/2.4/3.0	1	700004328
P2020C-Z-125-100	STII Connector, Domed Zirconia Ferrule	MM	0.9/2.4/3.0	100	700004310
P2020C-C-125	STII Connector, Flat Alumina Ferrule	MM	0.9/2.4/3.0	1	700004583
P2020C-C-125-100	STII Connector, Flat Alumina Ferrule	MM	0.9/2.4/3.0	100	700004336
P3020A-Z-125	STII Connector, Domed Zirconia Ferrule	SM	0.9/2.4/3.0	1	700011067

Fiber
Connectors
& Adapters

Fiber Optic Adapters

Fiber optic adapters are used in conjunction with the fiber optic panels to ensure proper alignment of the fibers when mating two connectors. The adapters are offered in multimode and single-mode and are color-coded for easy fiber identification. The adapters are generally offered as individually packed with dust cap included. For selected adapters, packages of 100 adapters are offered.

Two series of adapters are offered, C series and A series. The C series adapters are designed to be used with the 600, 1000 and 12/24 series panels, while the A series adapters are intended to be used with the 1200 series panel.



LC Adapters

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
C1001B-2-LS	LC Duplex Adapter, LazrSPEED	MM	Aqua	1	108622887
C1001B-1-LS	LC Simplex Adapter, LazrSPEED	MM	Aqua	1	760025338
C1001B-2	LC Duplex Adapter, OptiSPEED	MM	Beige	1	700002355
C1001B-1	LC Simplex Adapter, OptiSPEED	MM	Beige	1	700002173
C1101A-2	LC Duplex Adapter, TeraSPEED	SM	Blue	1	700002215
C1101A-1	LC Simplex Adapter, TeraSPEED	SM	Blue	1	700002132
C1201B-1	LC-APC Simplex Adapter, TeraSPEED	SM	Green	1	760036293
C1201B-2	LC-APC Duplex Adapter, TeraSPEED	SM	Green	1	760036301

SC Adapters

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
C6061A-4-LS	SC Duplex Adapter, LazrSPEED	MM	Aqua	1	108622895
C6061A-4	SC Duplex Adapter, OptiSPEED	MM	Beige	1	700004880
C6061A-4-100	SC Duplex Adapter, OptiSPEED	MM	Beige	100	700004872
C6001A-4	SC Simplex Adapter, OptiSPEED	MM	Beige	1	108223181
C6060A-4	SC Duplex Adapter, TeraSPEED	SM	Blue	1	700004815
C6000A-4	SC Simplex Adapter, TeraSPEED	SM	Blue	1	700004807
C6000A-5	SC Simplex Adapter, TeraSPEED, Flangeless	SM	Blue	1	700004799
C6800A-4	SC-APC Simplex Adapter, TeraSPEED	SM	Green	1	760036277
C6868A-4	SC-APC Duplex Adapter, TeraSPEED	SM	Green	1	760036285

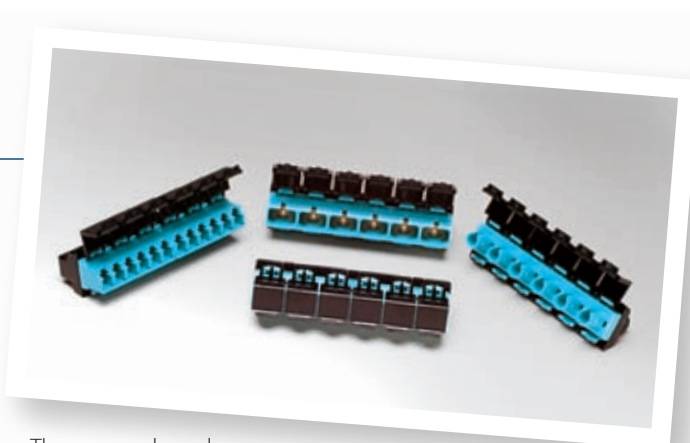
ST Adapters

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
C2000A-2	ST Adapter with Hex Mounting Nut	MM	Silver	1	700004864
C2000A-2-100	ST Adapter with Hex Mounting Nut	MM	Silver	100	700004906
A2000	ST Adapter with Circular Mounting Nut	MM	Silver	1	700004914
C3000A-2	ST Adapter with Hex Mounting Nut	SM	Silver	1	700011133
A3000	ST Adapter with Circular Mounting Nut	SM	Silver	1	760000638
C6070A-4	SC Adapter, Hybrid ST-SC Duplex, Metal Sleeve	MM	Beige	1	700004898
C12APLC	LC Adapter	MM	Green	1	700007883
C12CLLC	LC Adapter	MM	Clear	1	700007875
C3000A-2-100	ST Adapter for Panel Mount with Hex Mounting Nut	SM	Silver	1	700011075
Dust Cap	MPO Adapter Dust Caps	N/A	Black	50	760057323
ROC LRM Strain Relief Pin	ROC LRM Strain Relief Pin	N/A	Stainless	25	760065532
RJ2-1A-MST-10	ROC Simplex ST Module Jumper	SM	Black	5	760056267
RJ2-1A-MST-10	ROC Simplex ST Module Jumper	MM	Black	5	760056267
RJ2-2A-MST-20	ROC Duplex ST Module Jumper	MM	Black	1	700204241
RJ2-1A-MSF-15	ROC Simplex Module Jumper	MM	Black	1	700031107
RJ2-2A-MSF-24	ROC Duplex Module Jumper	MM	Black	1	700031115
RJ1-1A-FP-20	ROC Simplex Backplain Jumper	MM	Black	1	107120222
RJ1-2A-FP-20	ROC Duplex Backplain Jumper	MM	Black	1	107120230
RJ1-1A-FP90-52	ROC Simplex Backplain 90Pin Jumper	MM	Black	1	108895822
RJ1-2A-FP90-40	ROC Duplex Backplain 90Pin Jumper	MM	Black	1	108667106
RJ1-1A-FY90-51	ROC Backplain Simplex 90Pin Splitter Jumper	MM	Black	1	108667080
RJ1-2A-FY90-50	ROC Backplain Duplex 90Pin Splitter Jumper	MM	Black	1	108895814
ROC LRM Strain Relief Pin	ROC LRM Strain Relief Pin	N/A	Stainless	25	760065532
ROC LRM Strain Relief	ROC LRM Strain Relief	MM	Silver	1	760047563
RC1-C-22	ROC Latch Module Strain	N/A	Black	6	107884819
ROC BKPLN Connector	ROC Backplain Connector	N/A	Red	1	760026906
ROC LRM Connector	ROC LRM Connector	MM	Red	1	760026898

Multiport Adapter

Multiport adapters are designed for use with the LSTSY and 1100SY shelves to provide proper alignment of the mating fiber optic connectors. They are offered in a strip of 12 LC, 6 SC or 6 ST adapters and are equipped with the hinged dust caps, which can be mounted on both top and bottom side of the adapter strip.

The multiport adapters are offered in multimode or singlemode and are color-coded for easy fiber identification. They are packaged either as individual or as 10 per pack.



Multiport Adapters

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
C12-MM-LC-LS	LC Multiport Adapter, LazrSPEED	MM	Aqua	1	700207004
C12MM-LC-LS-10	LC Multiport Adapter, LazrSPEED	MM	Aqua	10	108626243
C6-MM-SC-LS	SC Multiport Adapter, LazrSPEED	MM	Aqua	1	700207012
C6-MM-SC-LS-10	SC Multiport Adapter, LazrSPEED	MM	Aqua	10	108626250
C6-MM-ST-LS	ST Multiport Adapter, LazrSPEED	MM	Aqua	1	700207020
C6-MM-ST-LS-10	ST Multiport Adapter, LazrSPEED	MM	Aqua	10	108626268
C12-MM-LC	LC Multiport Adapter, OptiSPEED	MM	Beige	1	700206949
C12-MM-LC-10	LC Multiport Adapter, OptiSPEED	MM	Beige	10	108168824
C6-MM-SC	SC Multiport Adapter, OptiSPEED	MM	Beige	1	700206956
C6-MM-SC-10	SC Multiport Adapter, OptiSPEED	MM	Beige	10	108168774
C6-MM-ST	ST Multiport Adapter, OptiSPEED	MM	Beige	1	700206964
C6-MM-ST-10	ST Multiport Adapter, OptiSPEED	MM	Beige	10	108168808
C12-SM-LC	LC Multiport Adapter, TeraSPEED	SM	Blue	1	700206972
C12-SM-LC-10	LC Multiport Adapter, TeraSPEED	SM	Blue	10	700007891
C6-SM-SC	SC Multiport Adapter, TeraSPEED	SM	Blue	1	700206980
C6-SM-SC-10	SC Multiport Adapter, TeraSPEED	SM	Blue	10	700007917
C6-SM-SC-APC	SC Multiport Adapter w/Angled Polished Connector, TeraSPEED	SM	Blue	1	760061374
C6-SM-ST	ST Multiport Adapter, TeraSPEED	SM	Blue	1	700206998
C6-SM-ST-10	ST Multiport Adapter, TeraSPEED	SM	Blue	10	700007909
C6-SM-SC-APC-10	SC Multiport Adapter w/Angled Polished Connector, TeraSPEED	SM	Blue	10	760061390
C12SMLC-Z	LC Multiport Adapter with Ceramic Sleeves, TeraSPEED	SM	Blue	1	760049809
C12SMLC-Z-10	LC Multiport Adapter with Ceramic Sleeves, TeraSPEED	SM	Blue	10	760049817
C12SMLCA-Z-10	LCA Multiport Adapter w/Ceramic Sleeves, TeraSPEED	SM	Green	10	760066621
C6SMSC-Z	SC Multiport Adapter with Ceramic Sleeves, TeraSPEED	SM	Blue	1	760049783
C6SMSC-Z-10	SC Multiport Adapter with Ceramic Sleeves, TeraSPEED	SM	Blue	10	760049791
C6SMST-Z	ST Multiport Adapter with Ceramic Sleeves, TeraSPEED	SM	Blue	1	760049767
C6SMST-Z-10	ST Multiport Adapter with Ceramic Sleeves, TeraSPEED	SM	Blue	1	760049775

M81 Series Modular Fiber Optic Adapter with Mounting Module

The M81 M-Series Modular Coupling/Adapter modules are intended to be used as fiber optic outlets for FTTX applications.

The M81LS duplex adapters include an integrated fiber management spool that provide a duplex LC connection with fiber management. The adapters can be used in modular faceplates as shown in the picture. They are color-coded for ease of fiber type identification, and provide slack management to maintain proper bend radius behind the wall.

The M81ST-B adapter module comes packaged with an M81 type mounting module with a circular opening and an ST fiber optic Coupling/Adapter (A2000 multimode). The ST Coupling/Adapter is mounted on the module via a locking washer and nut. The assembly mates two STII fiber optic connectors.

The M81SC-B adapter module comes packaged with an M81 type mounting module with a rectangular opening and a simplex SC fiber optic Coupling/Adapter (C6000A-5). The SC Coupling/Adapter snaps into the rectangular opening of the M81 type mounting module. The assembly mates two simplex SC fiber optic connectors.

The M81ST-B and the M81SC-B contain four collars: black, ivory, white and gray. The M81LC-029 is clear.

The M81LC-029 adapter module comes packaged with an M81 type mounting module with a rectangular opening and an LC adapter. The LC Coupling/Adapter snaps into the rectangular opening of the M81 type mounting module. A minimum 1.5 inch diameter fiber bend radius behind the adapter is recommended.

Once assembled, the coupling/adapter modules can be mounted in any of the M-Series faceplates, surface mount boxes, consolidation point boxes, M1000 MULTIMAX panels, frames or mounting collars.

Physical Specifications:

Height: M81ST-B, M81SC-B: 0.69 in (17 mm)

M81LC-029: 0.69 in (17 mm)

Width: M81ST-B, M81SC-B: 0.73 in (18 mm)

M81LC-029: 0.65 in (16 mm)

Depth: M81ST-B, M81SC-B: 0.39 in (9.6 mm)

M81LC-029: 0.3 in (7.4 mm)

Product Number	Detailed Description	Fiber Type	Color	Material ID
M81LS-MM Spool	LC Duplex Adapter w/ Fiber Spool	MM	Beige	108562174
M81LS-SM Spool	LC Duplex Adapter w/ Fiber Spool	SM	Blue	700007420
M81LS-LS Spool	LC Duplex Adapter w/ Fiber Spool	MM	Aqua	108623109
M81SC-B	SC Coupling/Adapter with Mounting Module	SM/MM	Blue	108009416
M81ST-B	ST Coupling/Adapter with Mounting Module	MM	Metal	108009408
M81LC-029	LC Adapter with Clear Collar	MM	Beige	107782641
M81LC-029-Collar	Clear Plastic Collar for LC, Pack of 25	MM	Clear	760010090
M81LCS-LS	Shuttered LC Adapter Kit	MM	Aqua	760031989



1032B5, 1032B6 and 1032F1 Tool Kits for STII, SC and LC Connectors

The 1032B5 Tool Kit contains all the tools needed to assemble ST or SC on cordage or buffered fiber using EZ or epoxy methods. Tool Kit will also provide necessary tools and instructions to field assemble LC multimode or singlemode connectors on 900 micron buffered fiber. LC connectors can be assembled along with use of D-182959 LC connector termination upgrade tool kit. A 200A 120 VAC Curing Oven is included.

The 1032B6 Tool Kit is for international use, where the only difference from the 1032B5 is that the 200A Curing Oven is replaced by the 200A1 220 VAC Curing Oven.



Product Number	Detailed Description	Material ID
1032B5	Tool Kit SC/LC/ST Connector Heat Cure Epoxy (North America)	700006026
1032B6	Tool Kit SC/ST Connector Heat Cure Epoxy (International)	700005960
1032F1	EZ SC/ST Tool Kit (Curing Oven Not Included)	700005929

1032H Mini Tool Kit for LC, SC and ST Connectors

The 1032H Mini Tool Kit is intended for connectorization of buffered fiber with LC, SC and ST multimode or singlemode connectors using the anaerobic (EZ) method.

The kit does not contain the crimp tool for cordage connectorization.

Crimp tool must be ordered separately. Adhesive must be ordered separately.



Product Number	Detailed Description	Material ID
1032H Mini Tool Kit	Tool Kit Anaerobic EZ SC/LC/ST including BTW connectors	700005838

D-182959 LC Connector Termination Tool Upgrade Kit

The D-182959 Tool Upgrade Kit for LC connectors provides the tools such as crimp jaws, heater pipes and a polishing puck to terminate the LC connector onto either 900 micron buffered fiber or 1.6 mm cordage. The D-182959 Kit is to be used in concert with the 1032B5 and 1032F1 Tool Kits.



Product Number	Detailed Description	Material ID
D-182959 KIT	LC Jumper Upgrade Kit	700005853

Fiber Optic Inspection and Cleaning Kit

Cleanliness of fiber optic connections is critical to the performance of optical communication networks. The SYSTIMAX Fiber Optic Connector Cleaning and Inspection Kit is a complete inspection and cleaning solution that enables you to service SC, ST, LC and even MPO connectors.

Contamination as small as 0.001 mm can block the fiber core generating strong back reflections (Return Loss) and may affect attenuation (Insertion Loss). Mating a contaminated connector to a clean connector will result in poor performance and can permanently damage the connection. Contaminants on a connector end-face can come from many different sources, such as hand oils and salts from touching the end-face or airborne particles touching an exposed connector. Often dust caps do not provide protection from airborne dust contaminants.



Attempting to clean the connector with improper materials or procedures often leads to more debris and damage to the connector. Using the materials and procedures provided in this kit will ensure clean and safe optical connectivity.

Features and Benefits:

- Probe style microscope can inspect connectors in hand and through the bulkhead
- Includes all materials needed to clean and inspect ST, SC, LC connectors
- Capable of inspecting and cleaning MPOs with and without pins, either in hand or through the bulkhead
- Prevents debris and contamination from causing testing failures or permanently damaging your connectors
- Rugged aluminum carrying case included

Kit Contents - Consumable and Inspection Kits

- Westover probe microscope and display
- NTT-AT cleaning cassette for cleaning ST, SC, LC and MPO(f) connectors in hand
- Noyes 1.25 mm and 2.5 mm swabs for cleaning ST, SC, LC connectors through the bulkheads
- US Conec IBC cleaner for cleaning MPO(m) and MPO(f) connectors both in hand and through the bulkhead
- MicroCare Fiber Optic Cleaning Solution
- SYSTIMAX Cleaning Instructions

Kit Contents - Consumable Kit

- NTT-AT Optipop reel cleaner refill
- MPO/MTP internal bulkhead cleaner
- 1.25 mm swabs (Green label)
- 2.5 mm swabs (Blue label)
- Fiber optic cleaning solution
- Instruction Sheet

Product Number	Detailed Description	Material ID
KIT-Cleaning	Fiber Optic Connector Cleaning and Consumables Kit	760053207
KIT-Clean/Inspect	Fiber Optic Connector Clean/Inspect Kit	760053199
KIT-1049A Tool ST Type C	Wrench for ST Adapter Circular Nut	700006059
KIT-5.00 EA Grip UC-55		700005770
KIT-D181622 Parts 25 FT		700006133
KIT-D182037		700006091
KIT-D182038		105501415
KIT-D182610 CLNG SM ST M		700006042
KIT-D182611 CLNG MM ST M		700006034

Product Number	Detailed Description	Material ID
KIT-D-182709 Parts ST CO	Consumable Kit with Adhesive	106736937
KIT-D182847 Parts	250-pc. SC Consumable Kit	700005903
KIT-D182919 TERM BRCG ST		700005879
KIT-D182918 TERM BRCG SC		700005861
KIT-D183017 FBR Optic LC	Fiber Optic Tuning Kit	700005820
KIT-DS-1 FBR Optic LIU K		106626682
KIT-LazrSPEED Product Sample Kit		108684416
KIT-P2020C-C-Parts		700005911
KIT-ST Extender Cap Part		700005978
KIT-1032J	Tool Kit, for Mount SC and ST Quick Light Connectors	108313685

Fiber Tools

Miscellaneous Kits for Fiber Optic Connector Cable Assembly/Terminations

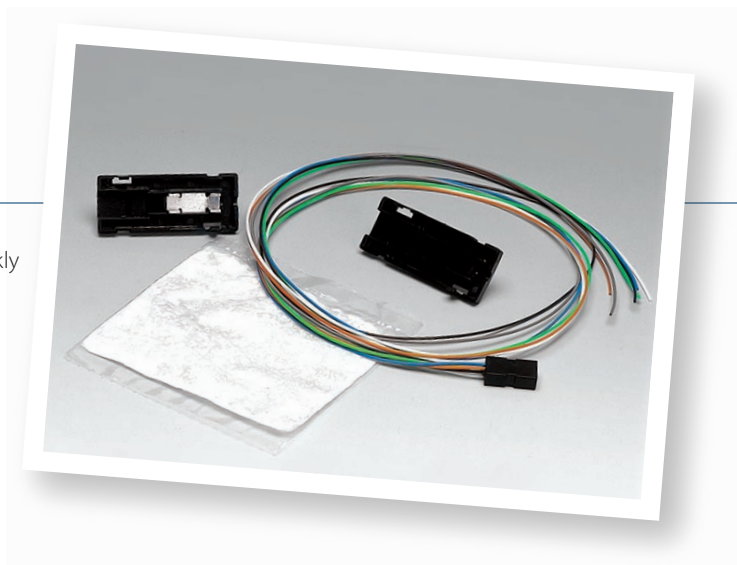
Detailed Description	Material ID
LC SM Tuning Tool	700008113
LC SM Tuning Wrench	700008121
TOOL-102A, STII Crimp Tool	700008253
TOOL-500B INSRTN MET BX0	700008188
TOOL-F-62161 Curing	700008246

Breakout Kits

The Breakout Kit prepares loose tube fiber optic cable quickly and reliably when premises network installations require indoor field connectorization. Available in 6 fiber and 12 fiber units, the kit transitions optical fiber from 2.5 mm and 3.0 mm buffer tubes to 900 micron protective tubing. The Breakout Kit is simple to use since no epoxy or special tools are required.

Features and Benefits:

- 6 fiber and 12 fiber units available
- 24 inch, 900 micron tubing length
- Simple, snap-together housing
- Flexible, yet rugged, 900 micron tubing for easy routing and fiber protection
- Color-coded tubing for easy fiber identification
- Allows fast, reliable breakout of loose tube cable
- Simple to assemble, no epoxy or special tools needed
- Easy fiber identification
- ISO 9001 and ISO 14001 certified manufacturer; TL 9000 registered quality management system



Detailed Description	Material ID
6 Fiber Breakout Kit	760018820
12 Fiber Breakout Kit	760018838

Unit Splitters

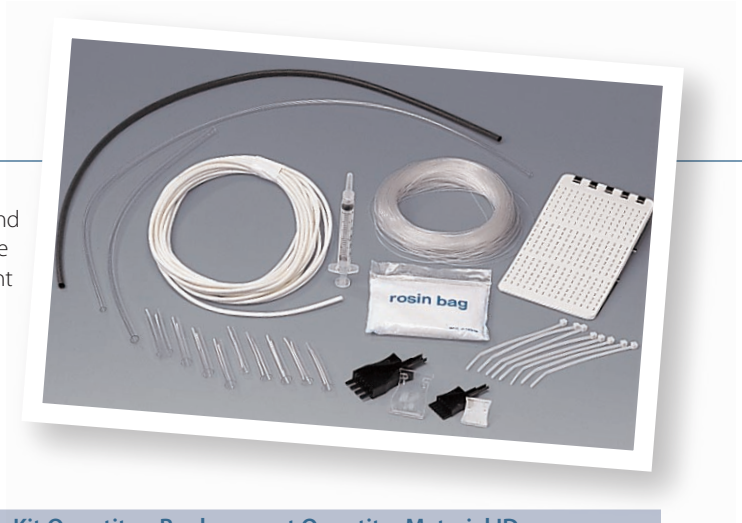
The Unit Splitter is a pitchfork-shaped apparatus used for gel-blocking and organizing fibers when prepping outside plant cable. It is the ideal device to split bundled fibers into separate groups for routing to locations for shelves and cabinets.



Product Number	Detailed Description	Material ID
D-181781	6 to 1 Unit Splitter for Outdoor Cable Diameter of 0.41 inch	700011125
D-181683	8 to 1 Unit Splitter for Outdoor Cable Diameter of 0.41 inch	700006125
D-182806	6 to 1 Unit Splitter Fits 0.16 in (4.1 mm) and 0.20 in (5.1 mm) Core Tubes	700010960

D-181755 PVC Buffer Tubing Consumable Kit

The PVC Buffer Tubing Kit contains buffer tubing and cable end prep materials for direct termination of connectors on outside plant cable. This kit will buffer approximately 100 outside plant fibers. Order B sealant separately.



Detailed Description	Kit Quantity	Replacement Quantity	Material ID
201 in (64 mm) Buffer Tube (900 micron)	1 Reel	5 Reels	700008300
Syringes	5	10	700007982
Wire Marker Book	1	1	700007966
Rosin Bag	1	5	700002405
0.166 in (4.2 mm) ID Clear PVC Tubing	2 in (61 cm)		Unable to order individually
0.234 in (6 mm) ID Clear PVC Tubing	1 in (30.5 cm)		Unable to order individually
0.294 in (7.5 mm) ID Clear PVC Tubing	1 in (30.5 cm)		Unable to order individually
0.095 in (2.9 mm) ID x 0.016 in (0.4 mm) Wall White PVC Tubing	25 in (7.6 cm)		Unable to order individually
0.187 in (4.8 mm) ID Heat Shrinkable Tubing	2 in (61 cm)		Unable to order individually
D-181683 Eight Unit Splitter (Re-orderable in Unit Splitter Family)	1		700006125
D-181781 Six Unit Splitter (Re-orderable in Unit Splitter Family)	1		700011125
Instruction Sheet	1		Unable to order individually

Product Number	Detailed Description	Material ID
D-181755	PVC Buffer Tubing Kit	700006117

D-183016 Splitter Kit

The Splitter Kit contains components and consumables for blocking the gel in central core tubing common in outside plant cable. It also contains components for buffering bare fibers with 900 micron tubing for termination onto fiber optic connectors. Order B sealant separately.

The D-183016 Splitter Kit contains the following components:

- Clear Tygon Tubing Qty 2
- Cable Ties Qty 10
- Syringes (3 cc) Qty 2
- Syringe Tips Qty 2
- White PVC Tubing (0.095 Diameter) 25 ft
- Splitter Kit with TALC Bag Qty 2
- D183016 Kit Installation Instructions Qty 1



Product Number	Detailed Description	Material ID
D-183016	Splitter Kit	108459488

Universal Polishing Kits

SYSTIMAX® Solutions universal polishing kits make terminations of all SYSTIMAX fiber connectors easier and faster to install. This procedure allows contractors, distributors and end-users to only order one polishing kit for multimode connectors and one polishing kit for single-mode connectors.

Features and Benefits

- Multimode connectors only one polishing paper and 2 steps
- Single-mode connectors only two polishing papers and 3 steps
- Fewer polishing steps and strokes for the new pre-radiused LC connector
- Reduces the number of papers to purchase and maintain
- Reduces confusion over which paper to use at which step
- Easier logistics for ordering and maintaining stock
- One multimode consumables kit for all three connector styles, (ST, SC, LC)
- One single-mode consumables kit for all three connector styles (ST, SC, LC)
- Quality terminations with excellent performance



Product Number	Detailed Description	Application	Qty/Pkg	Material ID
KIT-C-UNIV-M-100	Type H paper, sheets	MM ST & SC Connectors	25	760066720
	Texwipes, packs	MM Pre-Radius LC Connectors	2	
	Syringes, packs	For terminating 100 Connectors	1	
	Dispensing Tips, packs		1	
	Music Wire, vial		1	
	Instruction Sheets	ST, SC & LC	1 each	
KIT-C-UNIV-S-100	Type H paper, sheets	SM & MM ST & SC Connectors	25	760066738
	Type E paper, sheets	SM & MM Pre-Radius LC Connectors	25	
	Texwipes, packs	For terminating 100 Connectors	2	
	Syringes, packs		1	
	Dispensing Tips, packs		1	
	Music Wire, vial		1	
	Instruction Sheets	ST, SC & LC	1 each	

Product Number	Detailed Description	Material ID
1032B5 Tool Kit	Tool Kit SC/LC/ST Connector Heat Cure Epoxy	700006026
1032B6 Tool Kit	Tool Kit SC/ST Connector Heat Cure Epoxy	760005960
1032H Mini Tool Kit	Tool Kit Anaerobic EZ SC/LC/ST including BTW connectors	700005838

Fiber Optic Connector - Consumable Kits

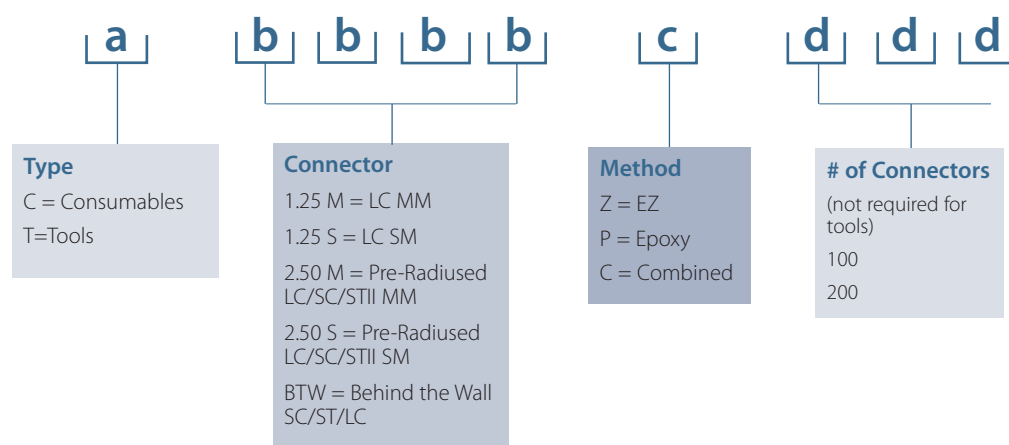
The Epoxy and EZ Fiber Optic Apparatus (FOA) field assembly kits contain consumable supplies used to terminate connectors using the Epoxy and EZ method.

EZ adhesives (760000810) kit will include all adhesives required to complete EZ field installation of SC/LC connectors. The kit will consist of Loctite Super Bonder 495, 7090 Solvent-less Primer and Loctite 648 Retaining Compound.

Field Installation Kits

Adhesives and epoxy must be ordered separately.

Construct the product code from the following options:



Product Number	Detailed Description	Application	Material ID
Kit-C-2.50M-Z-100	Consumable Kit to Install 100 STII/SC/Pre-Radiused LC Multimode Connectors Using the EZ Method	Multimode STII/SC/Pre-Radiused LC Method	700218035
Kit-C-2.50M-P-100	Consumable Kit to Install 100 STII/SC Multimode Connectors Using the Epoxy Method	Multimode STII/SC Epoxy Method	700218043
Kit-C-2.50S-Z-100	Consumable Kit to Install 100 STII/SC/Pre-Radiused LC Singlemode Connectors Using the EZ Method	Singlemode STII/SC/Pre-Radiused EZ Method	700218050
Kit-C-2.50S-P-100	Consumable Kit to Install 100 STII/SC Singlemode Connectors Using the Epoxy Method	Singlemode STII/SC Epoxy Method	700218068
Kit-C-1.25M-C-200	Consumable Kit to Install 200 LC Multimode Connectors Using the Epoxy or EZ Method	Multimode LC Epoxy/EZ Combined	700218084
Kit-C-1.25S-C-200	Consumable Kit to Install 200 LC Singlemode Connectors Using the Epoxy or EZ Method	Singlemode LC Epoxy/EZ Combined	700233638
EZ Adhesives	Loctite 7090 Solvent-less Primer/495 Super Bonder/648 Retaining Compound	Primer/Bonder/Retaining Compounds	760000810
Kit-C-2.50M-R-100	Consumable Kit for Repairing ST/SC Connectors	Consumable Kit	700218076
Kit-C-Univ-M-100	Universal Consumable Kit to install 100 ST, SC, Pre-Radiused LC Connectors	Multimode Epoxy/EZ Combined	760066720
Kit-C-Univ-S-100	Universal Consumable Kit to install 100 ST, SC, Pre-Radiused LC Connectors	Singlemode Epoxy/EZ Combined	760066738

D-182977 Singlemode Epoxy LC Consumable Kit

The D-182977 Consumable Kit contains enough supplies to mount approximately 200 singlemode flat endface LC connectors using the heat-cured epoxy method. This kit can also be used to terminate multimode flat end-face LC connectors (epoxy method).



Detailed Description	Kit Quantity	Replacement Quantity	Material ID
Wipes	10	250	700006166
Music Wire	5	4	700008394
Syringes	75	10	700007982
Dispensing Tips	125	125	700011141
Epoxy	1	15	700006109
Clear Spacers	10		Unable to order individually
Foam Pad (white)	10		Unable to order individually
Type J Polishing Paper (purple)	20	20	700006661
Type F Polishing Paper	5	5	700006703
Type K Polishing Paper	5	5	700006687
Type L Polishing Paper	10	10	700006679
LC Adapter Brush	6	6	700008089

Product Number	Detailed Description	Material ID
D-182977	SM Epoxy LC Consumable Kit	700005317

Consumable Kit Components

Replacement kit components for the following Consumable Kits: D-182804, D-182720, D-181755, D-182738, D-182739

Detailed Description	Replacement Quantity	Material ID
Type A Polishing Paper	100	700006737
Type D Polishing Paper	100	700006711
Type E Polishing Paper	100	760062281
Type E Polishing Paper (White), 6x6	100	760066977
Buffer Tube Reel 900 micron 210 ft (64.1 m)	5	700008360
Wire Marker Book	1	700007966
Rosin Bag	5	700002405
Wipes	250	700006166
Music Wire	4	700008394
Syringes	10	700007982
Dispensing Tips	125	700011141
Type F Polishing Paper (Yellow Round)	10	700006703
Type J Polishing Paper (Purple)	20	700006661
Type G Polishing Paper (Green)	25	760006205
Type L Polishing Paper	10	700006679
Type K Polishing Paper	5	700006687
Type H Polishing Paper (Green), 6x6	100	760066969
B Sealant 3 oz		700010911
Bottled Adhesive	1	700002181
D182985 SM EZ Consumable Kit	1	700005309
D182984 MM EZ Consumable Kit	1	108340829
Epoxy Kit		700006109
Bottled 'EZ' Primer	1	700004146

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Advanced Connectivity Solutions

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iPatch® Intelligent Patching System

Advanced
Connectivity

The SYSTIMAX iPatch System integrates copper and fiber hardware and software to provide real-time information and control of the telecommunications infrastructure. The iPatch System provides the network administrator greater vision, the cabling administrator complete management, and the cabling technician intelligence to optimize physical layer management and network efficiency, improve reliability, and reduce downtime. The iPatch System adds real-time monitoring of both copper and fiber patch connections and integration with network management software. The iPatch System continually monitors and verifies patch panel port connections and logs changes in a central database. Electronic work orders eliminate tedious paper-based administration and improve productivity. Work is guided at each patch panel by electronic visual and audio prompts to virtually eliminate patching errors. The user is instantly alerted to critical changes or conditions that require immediate attention and resolution.



The iPatch System Brings Order to Chaos

Data and voice connections live or die in crowded telecommunications rooms where a single misplaced patch cord can wreak havoc and increase downtime. The iPatch System provides one touch patch cord tracing, with both visual and audio prompts to guide every connection. It continuously monitors, verifies and logs port connections to keep your system running smoothly and instantly alert you to problems.

Vision

Provides the network administrator greater vision into and control over the entire communication network with the integration of network management applications and physical layer management capabilities over the Simple Network Management Protocol (SNMP) platform.

Management

Provides the cabling administrator the ability to manage critically important horizontal and backbone connections.

Intelligence

Provides the cabling technician straightforward connectivity intelligence for error-free and greater efficiency when executing move, add, change (MAC) work orders and tracing operations.

How the iPatch System Works

Each rack is equipped with a Rack Manager *Plus* device, which monitors every port in every patch panel. This information is sent to a central database, where the System Manager Software shows a continuously updated view of cabling connectivity information.

(MAC) work orders can be scheduled with point-and-click ease. Utilizing the service provisioning algorithm, System Manager will identify the optimal cabling path, and issue an electronic work order.

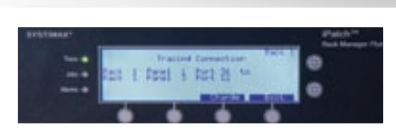
At the scheduled time, the order is sent electronically to the appropriate iPatch Rack Manager *Plus* in the telecommunications room where the "jobs" label will appear on LCDs and the "jobs" green indicator will be lit to help the technician instantly identify the racks where a change must be made.

When the softkey under the "jobs" label is pressed, the work order details are displayed on the LCD screen of the appropriate racks and two bright red LEDs light up, one above each patch panel port, to guide the technician in executing each (MAC) work order.

When the (MAC) work order is executed, the change is verified by a confirmation tone and logged into the database. If an error is encountered while executing the (MAC) work order, a loud warning buzz instantly calls attention to the error so it can be corrected on the spot.

Product Number	Detailed Description	Material ID
iPRckMgr-Plus	iPatch Rack Manager <i>Plus</i>	760024588
iPSYSMGRSW2RTU	iPatch System Mgr. (2 User)	760056325
iPSYSMGR5RTU	iPatch System Mgr. (5 User Upgrade)	760056341
iPSYSMGR25RTU	iPatch System Mgr. (25 User Upgrade)	760056333

Advanced
Connectivity



iPatch® Panels

The iPatch 1100 series intelligent modular panels are available in both GigaSPEED® XL (1100GS3) and GigaSPEED X10D (1100GS5) models, with 24 or 48 ports.



Advanced
Connectivity

Termination Control Manager

The iPatch 1100 series intelligent modular panels feature a new termination control manager (TCM) and redesigned rear housing. These new components provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Available in 24- and 48-port configurations featuring universal A/B labeling.
- One-button tracing function with one LED indicator per port.
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable.
- Each panel comes ready to install, including front and rear labels.
- New termination control manager and redesigned IDC housing allows traditional cable termination to high performance panels.
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a certified SYSTIMAX GigaSPEED channel (one-year warranty for active components, including the Patch Panel Tracing Interface Module - please see the iPatch System Limited Warranty for complete details)

1100GS3 Features and Benefits:

- Can support network line speeds in excess of 1Gbps.
- Backwards-compatible with Category 5e, 5, and 3 cords and cables, however, optimal performance is achieved when used with GigaSPEED GS8E cords.
- Certified component of an integrated GigaSPEED XL solution.

1100GS5 Features and Benefits:

- Can support network line speeds in excess of 10Gbps.
- Backwards-compatible with Category 6, 5e, 5, and 3 cords and cables, however, optimal performance is achieved when used with GigaSPEED GS10E cords.
- Certified component of an integrated GigaSPEED X10D solution.

Product Number		Detailed Description	Material ID
iPGS3-24-TCM		iPatch 24-Port GS3 Panel with TCMs	760067694
iPGS3-48-TCM		iPatch 48-Port GS3 Panel with TCMs	760067702
iP1100GS5-24		iPatch 1100GS5 24-Port Panel	760051003
iP1100GS5-48		iPatch 1100GS5 48-Port Panel	760051011
iP-1100GS3-48	PC	iPatch 1100GS3 48-Port Panel	760067702
iP-1100GS3-24	PC	iPatch 1100GS3 24-Port Panel	760067694
iP-1100GS5-24	PC	iPatch 1100GS5 24- Port Panel	760051003
iP-1100GS5-48	PC	iPatch 1100GS5 48- Port Panel	760051011

iPatch® Shelves



iPatch Intelligent Fiber Shelves are based on the SYSTIMAX 600-series 1U fiber shelves, and come equipped with 12 duplex SC couplers (24 fibers) or 24 duplex LC couplers (48 fibers) that support the SYSTIMAX fiber portfolio - LazrSPEED, TeraSPEED and OptiSPEED applications. The iPatch Intelligent Fiber Shelves support both simplex and duplex patch connections. Models are available with fixed or sliding fiber trays, and pre-terminated versions are also available.

Features and Benefits:

- Hinged front door for easy access
- Front cable management trough
- Top cover panel
- Standard water-tight cable entry conduit connectors
- Blank labels for identifying fiber splices and terminations

Additional Features and Benefits, Pre-Terminated Shelves:

- 12-fiber MPO connector-based modular design enables simple connections
- Factory-terminated and tested modules for instant field connections and guaranteed quality and performance
- Designed for administrative convenience - guaranteed transmit-to-receive connectivity
- No special or non-standard polarity components
- Supports easy reconfiguration for moves, adds and changes
- Easy upgrade path to parallel connectivity and associated applications, while preserving most of investment
- Automatic shutters for LC adapters

Advanced
Connectivity

Product Number		Detailed Description	Material ID
iPF600A12MS		iPatch 600A 12-Port MM SC-SC	760005595
iPF600B12MS		iPatch 600B 12-Port MM SC-SC	760005629
iPF600A12SS		iPatch 600A 12-Port SM SC-SC	760010777
iPF600B12SS		iPatch 600B 12-Port SM SC-SC	760010785
iPF600A24LC		iPatch 600A 24-Port LC	760017848
iPF600B24LC		iPatch 600B 24-Port LC	760017855
iPPTSC12MS		iPatch Pre-Term 24 Port, 12 Port SC Duplex, LazrSpd (MM) Shelf	760038513
iPPTSC12SS		iPatch Pre-Term 24 Port, 12 Port SC Duplex, TeraSpd (SM) Shelf	760038521
iPPTLC24MS		iPatch Pre-Term 48 Port, 24 Port LC Duplex, LazrSpd (MM) Shelf	760038539
iPPTLC24SS		iPatch Pre-Term 48 Port, 24 Port LC Duplex, TeraSpd (SM) Shelf	760038547
iP-600A-24-LC	PC	iPatch 600A 24-Port LC Fiber Shelf	760017848
iP-600B-24-LC	PC	iPatch 600B 24-Port LC Fiber Shelf	760017855
iP-600A-12-SC-MMF	PC	iPatch 600A 12-Port SC MMF ShelfSC SHELF	760005595
iP-600B-12-SC-MMF	PC	iPatch 600B 12-Port SC MMF Shelf	760005629
iP-600A-12-SC-SMF	PC	iPatch 600A 12-Port SC SMF Shelf	760010777
iP-600B-12-SC-SMF	PC	iPatch 600B 12-Port SC SMF Shelf	760010785
iP-PTF-12-SC-LS	PC	iPatch PreTerm 12-Port SC LS Shelf	760038513
iP-PTF-12-SC-TS	PC	iPatch PreTerm 12-Port SC TS Shelf Shelf	760038521
iP-PTF-24-LC-LS	PC	iPatch PreTerm 24-Port LC LS Shelf	760038539
iP-PTF-24-LC-TS	PC	iPatch PreTerm 24-Port LC TS Shelf	760038547

SYSTIMAX® AirSPEED™ AP542 Access Points

The SYSTIMAX AirSPEED AP542 access point (AP) is a high performance 802.11 wireless AP with robust features and security for demanding enterprise networks. With an intuitive and simple design, the SYSTIMAX AirSPEED AP542 is simple to install, configure and manage. The SYSTIMAX AirSPEED AP542 provides the reliability and quality expected by enterprise IT managers.

SYSTIMAX Solutions Meets the Performance Demands of the Enterprise

The SYSTIMAX AirSPEED AP542 access point offers a feature-rich, standards-based wireless LAN solution consistent with the product quality and performance that is synonymous with SYSTIMAX Structured Connectivity Solutions.

- 40 Mbps throughput with concurrent 802.11g and 802.11a operation
- WMM™ and 802.11e ready for the quality of service (QoS) required for wireless voice and video
- Twice the memory of APs currently in the market, allowing for remote software upgrade capacity
- Multiple external antenna connectors to provide enhanced RF signals where coverage is critical

Industry-Leading WLAN Security Features

Reducing the risk of security breaches and unauthorized, rogue connections to your network, the SYSTIMAX AirSPEED AP542 security features enable long-term enterprise security, giving enterprises peace of mind.

- 802.11i, including the government approved Advanced Encryption Standard (AES)—the latest in encryption technology
- Advanced security protocols support WPA2™ including IEEE 802.1x user authentication and dynamic per-user, per-session rotating keys
- Up to 16 separate VLANs per radio, each able to support multiple security settings
- Secure management interfaces—SNMPv3, SSL and SSH—protect against unauthorized AP changes
- Intelligent rogue AP and client, detection and notification

Easy to Install, Configure and Manage

The SYSTIMAX AirSPEED AP542 was designed to simplify installation and integration within the cabling and network infrastructure. The SYSTIMAX AirSPEED AP542 provides features that decrease the time the enterprise network manager spends on the installation and management of the wireless LAN solution.

- Unique SYSTIMAX Solutions cable management design to provide a clean look and quick installation
- Universal mounting bracket to deploy in the ceiling, on the ceiling or on the wall
- Support for PoE 802.3af technology—bringing power to the AP through the Ethernet cable
- Automatic channel selection to ease WLAN configuration
- Multiple interface options for remote AP management

Exceptional Quality Assurance and Reliability

The SYSTIMAX AirSPEED AP542 access point is backed by SYSTIMAX Labs to ensure that enterprises receive the excellence and reliability their mission critical systems demand.

- Plenum-rated for safe installation in ventilation spaces
- Auto-reconfiguration of network settings and security policies in the event of power outage
- Dual image support confirms new AP configuration is valid before deleting current image

Compatibility with All Things Wi-Fi

The SYSTIMAX AirSPEED AP542 access point, automatically supports client devices that adhere to the 802.11 standard and is upgradeable to support future wireless LAN technology.

- Dual-band, tri-mode concurrent support of the 802.11b, 802.11g and 802.11a
- Wi-Fi Certified™, ensuring interoperability between wireless certified devices
- Scalable platform protects network investment
- Remote software upgrades to support new 802.11 standards



Specifications:

Interface: Wired Ethernet: 10/100BASE-T Ethernet (RJ-45)

RS-232: Unit Configuration

Hardware: Memory: 32 MB SDRAM; 8 MB Flash

Dimensions: 7.7 x 6.7 x 1.1 in (19.6 x 16.4 x 2.8 cm)

Weight: 0.8 lbs (0.36 kg)

Temperature: Operating: 32°F to 131°F (0°C to 55°C)

Storage: 14°F to 158°F (-10°C to 70°C)

Humidity: 95% (non-condensing)

Power Supply: Integrated Module

Autosensing 100/240 VAC; 50/60 Hz

IEEE 802.3af for Power over Ethernet (PoE)

LEDs: Power

Ethernet LAN Activity

Wireless 802.11a Activity or Wireless 802.11b/g Activity

Management:

Remote Interfaces:

SNMPv1, SNMPv2c and secure SNMPv3 management, Telnet, TFTP

AP542 MIB, Etherlike MIB, 802.11 MIB, Bridge MIB, MIB-II

Standard & AP542 traps

Serial Port CLI (no proxy required)

HTTPS (SSL) server for secure web-based management

Advanced filtering capabilities including:

-IEEE 802.1d bridging with static MAC address filtering

-Network protocol filtering

-Proxy ARP, multicast/broadcast storm threshold filtering

-TCP/UDP port filtering

-Intra-cell traffic filtering

-Spanning Tree support

Advanced
Connectivity

Product Number	Detailed Description	Application Notes	Material ID
SYSTIMAX AirSPEED AP542 US 9	Dual-radio, Tri-mode 802.11 a & b/g, 9 Channels	US, Canada	760028431
SYSTIMAX AirSPEED AP542 US13	Dual-radio, Tri-mode 802.11 a & b/g, 13 Channels	US, Canada	760028449
SYSTIMAX AirSPEED AP542 EU 4	Dual-radio, Tri-mode 802.11 a & b/g, 4 Channels	Most European Union Countries	760028456
SYSTIMAX AirSPEED AP542 EU 8	Dual-radio, Tri-mode 802.11 a & b/g, 8 Channels	Finland, Germany, Netherlands	760028472
SYSTIMAX AirSPEED AP542 UK	Dual-radio, Tri-mode 802.11 a & b/g	United Kingdom	760028464
SYSTIMAX AirSPEED AP542 MX 9	Dual-radio, Tri-mode 802.11 a & b/g, 9 Channels	Mexico	760031732
SYSTIMAX AirSPEED AP542 MX13	Dual-radio, Tri-mode 802.11 a & b/g, 13 Channels	Mexico	760031740
SYSTIMAX AirSPEED AP542 BR	Dual-radio, Tri-mode 802.11 a & b/g	Brazil	760031336
SYSTIMAX AirSPEED AP542 AR	Dual-radio, Tri-mode 802.11 a & b/g	Argentina	760031906
SYSTIMAX AirSPEED AP542 SA	Dual-radio, Tri-mode 802.11 a & b/g	Saudi Arabia	760031898
SYSTIMAX AirSPEED AP542 JP	Dual-radio, Tri-mode 802.11 a & b/g	Japan	760028480
SYSTIMAX AirSPEED AP542 CHN	Dual-radio, Tri-mode 802.11 a & b/g	China	760028506
SYSTIMAX AirSPEED AP542 SK	Dual-radio, Tri-mode 802.11 a & b/g	South Korea	760028514
SYSTIMAX AirSPEED AP542 HK	Dual-radio, Tri-mode 802.11 a & b/g	Hong Kong	760031724
SYSTIMAX AirSPEED AP542 TW	Dual-radio, Tri-mode 802.11 a & b/g	Taiwan	760028522
SYSTIMAX AirSPEED AP542 SG	Dual-radio, Tri-mode 802.11 a & b/g	Singapore	760028498
SYSTIMAX AirSPEED AP542 AU 9	Dual-radio, Tri-mode 802.11 a & b/g, 9 Channels	Australia, New Zealand	760033993
SYSTIMAX AirSPEED AP542 AU13	Dual-radio, Tri-mode 802.11 a & b/g, 13 Channels	Australia, New Zealand	760028423

SYSTIMAX® AirSPEED™ AP541 Access Points

The SYSTIMAX AirSPEED AP541 access point (AP) is a cost effective 802.11 wireless AP delivering enterprise-class security and management features for installations in environments that do not require a high degree of client diversity. With an intuitive and simple design, the SYSTIMAX AirSPEED AP541 is simple to install, configure and manage. The SYSTIMAX AirSPEED AP541 provides the reliability and quality expected by enterprise IT managers.

Advanced
Connectivity



SYSTIMAX Solutions Meets the Performance Demands of the Enterprise

The SYSTIMAX AirSPEED AP541 access point offers a cost-effective, feature-rich, standards-based wireless LAN solution consistent with the product quality and performance that is synonymous with SYSTIMAX Structured Connectivity Solutions.

- 24 Mbps actual throughput in standard 802.11 modes
- Twice the memory of APs currently in the market allowing for remote software upgrade capacity
- Two internal antennas and two external antenna connectors for antenna diversity and to provide enhanced RF signals where coverage is critical

Industry-Leading WLAN Security Features

Reducing the risk of security breaches, the SYSTIMAX AirSPEED AP541 access point security features enable long-term enterprise security, giving enterprises peace of mind.

- 802.11i, including the government approved Advanced Encryption Standard (AES)—the latest in encryption technology
- Advanced security protocols support WPA2™ including IEEE 802.1x user authentication and dynamic per-user, per-session rotating keys
- Up to 16 separate VLANs, each able to support a different security setting
- Secure management interfaces, SNMPv3, SSL and SSH protect against unauthorized AP changes

Easy to Install, Configure and Manage

The SYSTIMAX AirSPEED AP541 was designed to simplify installation and integration within the cabling and network infrastructure. The SYSTIMAX AirSPEED AP541 provides features that decrease the time the enterprise network manager spends on the installation and management of the wireless LAN solution.

- Unique SYSTIMAX Solutions cable management design to provide a clean look and quick installation
- Universal mounting bracket to deploy in the ceiling, on the ceiling or on the wall
- Support for PoE 802.3af technology—bringing power to the AP through the Ethernet cable
- Automatic channel selection to ease WLAN configuration
- Multiple interface options for remote AP management

Exceptional Quality Assurance and Reliability

The SYSTIMAX AirSPEED AP541 access point is backed by SYSTIMAX Labs to ensure enterprises receive the excellence and reliability their systems demand.

- Plenum-rated for safe installation in ventilation spaces
- Auto-reconfiguration of network settings and security policies in the event of a power outage
- Dual image support confirms new AP configuration is valid before deleting current image

Compatibility with All Things Wi-Fi

The SYSTIMAX AirSPEED AP541 access point supports client devices that adhere to the 802.11 standard and is upgradeable to support future wireless LAN technology.

- User defined mode of operation supporting 802.11a or 802.11b/g clients
- Wi-Fi Certified™, ensuring interoperability between wireless certified devices
- Scalable platform protects network investment
- Remote software upgrades to support new 802.11 standards

Specifications:

Interface: Wired Ethernet: 10/100BASE-T Ethernet (RJ-45)
RS-232: Unit Configuration

Hardware: Memory: 32 MB SDRAM; 8 MB Flash

Dimensions: 7.7 x 6.7 x 1.1 in (19.6 x 16.4 x 2.8 cm)

Weight: 0.8 lbs (0.36 kg)

Temperature: Operating: 32°F to 131°F (0°C to 55°C)
Storage: 14°F to 158°F (-10°C to 70°C)

Humidity: 95% (non-condensing)

Power Supply: Integrated Module

Autosensing 100/240 VAC; 50/60 Hz
IEEE 802.3af for Power over Ethernet (PoE)

LEDs: Power

Ethernet LAN Activity

Wireless 802.11a Activity or Wireless 802.11b/g Activity

Management:

Remote Interfaces:

SNMPv1, SNMPv2c and secure SNMPv3 management, Telnet, TFTP
AP542 MIB, Etherlike MIB, 802.11 MIB, Bridge MIB, MIB-II
Standard & AP542 traps
Serial Port CLI (no proxy required)
HTTPS (SSL) server for secure web-based management
Telnet (SSH)

Advanced filtering capabilities including:

- IEEE 802.1d bridging with static MAC address filtering
- Network protocol filtering
- Proxy ARP, multicast/broadcast storm threshold filtering
- TCP/UDP port filtering
- Intra-cell traffic filtering
- Spanning Tree support

Advanced
Connectivity

Product Number	Detailed Description	Application Notes	Material ID
SYSTIMAX AirSPEED AP541 US 9	Single Radio, 802.11 a or b/g, 9 Channels	US, Canada	760028548
SYSTIMAX AirSPEED AP541 US13	Single Radio, 802.11 a or b/g, 13 Channels	US, Canada	760028555
SYSTIMAX AirSPEED AP541 EU 4	Single Radio, 802.11 a or b/g, 4 Channels	Most European Union Countries	760028563
SYSTIMAX AirSPEED AP541 EU 8	Single Radio, 802.11 a or b/g, 8 Channels	Finland, Germany, Netherlands	760028589
SYSTIMAX AirSPEED AP541 UK	Single Radio, 802.11 a or b/g	United Kingdom	760028571
SYSTIMAX AirSPEED AP541 MX 9	Single Radio, 802.11 a or b/g, 9 Channels	Mexico	760031765
SYSTIMAX AirSPEED AP541 MX13	Single Radio, 802.11 a or b/g, 13 Channels	Mexico	760031773
SYSTIMAX AirSPEED AP541 AR	Single Radio, 802.11 a or b/g	Argentina	760031930
SYSTIMAX AirSPEED AP541 BR	Single Radio, 802.11 a or b/g	Brazil	760031344
SYSTIMAX AirSPEED AP541 CN	Single Radio, 802.11 a or b/g	China	760028613
SYSTIMAX AirSPEED AP541 HK	Single Radio, 802.11 a or b/g	Hong Kong	760031757
SYSTIMAX AirSPEED AP541 TW	Single Radio, 802.11 a or b/g	Taiwan	760028670
SYSTIMAX AirSPEED AP541 JP	Single Radio, 802.11 a or b/g	Japan	760028597
SYSTIMAX AirSPEED AP541 IN	Single Radio, 802.11 a or b/g	India	760028696
SYSTIMAX AirSPEED AP541 SK	Single Radio, 802.11 a or b/g	South Korea	760028662
SYSTIMAX AirSPEED AP541 SG	Single Radio, 802.11 a or b/g	Singapore	760028605
SYSTIMAX AirSPEED AP541 UAE	Single Radio, 802.11 a or b/g	United Arab Emirates	760031914
SYSTIMAX AirSPEED AP541 SA	Single Radio, 802.11 a or b/g	Saudi Arabia	760031922
SYSTIMAX AirSPEED AP541 AU 9	Single Radio, 802.11 a or b/g, 9 Channels	Australia, New Zealand	760034009
SYSTIMAX AirSPEED AP541 AU13	Single Radio, 802.11 a or b/g, 13 Channels	Australia, New Zealand	760028530

SYSTIMAX® AirSPEED™ Signal Enhancing Antennas

The SYSTIMAX AirSPEED Dual Band Signal Enhancing Antenna (SEA) is an omni-directional external antenna that enhances the performance of the wireless network. The Dual Band SEA simultaneously supports 802.11a and 802.11b/g clients for greater deployment flexibility and infrastructure investment protection.

The SYSTIMAX AirSPEED SEA represents a key component of the SYSTIMAX AirSPEED Wireless LAN Solution. Combining the SYSTIMAX AirSPEED AP542, dual-radio, access point with SEAs creates a powerful solution to meet enterprise wireless LAN requirements.

Enhances the Wireless Network Performance

- Ensures a clear signal for SYSTIMAX AirSPEED Access Points installed in the ceiling (or plenum) and other RF unfriendly environments*
- Omni-directional antenna delivers 360° coverage
- Install access points and move the antenna around to optimize placement

Simple to Install

- Universal mounting bracket to deploy on the ceiling or on the wall
- Built-in magnet provides for a quick and sturdy installation on a dropped or T-bar ceiling
- Support for all 802.11 clients

Protects Infrastructure Investment

- Compatible with 802.11a and 802.11b/g clients
- Allows APs to be installed in the ceiling to prevent theft and tampering without impeding wireless LAN coverage

*Note: The SYSTIMAX AirSPEED Dual Band Signal Enhancing Antenna is not plenum-rated and should not be installed in the ceiling (or plenum). The antenna cable is plenum-rated and is safe for installation in the ceiling (or plenum).

Specifications:

Dimensions: 3.0 x 2.3 x 7.6 in (7.6 x 5.8 x 19.4 cm)

Weight: 3.9 oz (110 g)

Frequency Range: 2400 MHz-2500 MHz
5150 MHz-5875 MHz

Peak Gain (including cable loss): 2.5 dBi for 2400 MHz-2500 MHz
3.5 dBi for 5150 MHz-5875 MHz

Polarization: Linear, vertical

Power Handling: 2 W (cw)

Impedance: 50 Ohms

Connector: Proprietary

Cable: ULA100PL: 1.5 m
Plenum-Rated

Cable Loss: 2.0 dB for 2400 MHz-2500 MHz
3.5 dB for 5150 MHz-5875 MHz

Temperature: Operating 14°F to 131°F (-10°C to 55°C)

Humidity: Operating 95% @ 77°F (25°C)

Random Material: ABS + PC

Color: White



Product Number	Detailed Description	Material ID
AirSPEED Dual Band SEA	Dual-band Omni Directional Antenna	760033217

PoE Non-Managed Devices

SYSTIMAX midspan Power over Ethernet (PoE) devices offer an effective method for powering enterprise applications by eliminating the need for costly electrical wiring and providing maximum installation flexibility.



Advanced
Connectivity

Saves Time and Money

- Leveraging SYSTIMAX cabling solutions, the midspan PoE devices allow network end-points to receive both data and power over existing Category 5e or Category 6 cabling
- Protects your network investment by offering a lower total cost of ownership than alternative PoE solutions
- Installation savings by deploying all your LAN infrastructure at the same time: cabling, wireless and now power

Scalable

- Quick, cost-effective expansion of the network as enterprise requirements evolve
- Broad range of solutions fit different types of installations—12- or 24-Port midspan PoE devices
- Simultaneous power for up to 24 Ethernet end-points

Simple to Install, Integrate and Manage

- Eliminates the need for AC outlets and power cords at locations where network end-points are installed
- Automatically detects all PoE-ready devices
- Front panel accessible ports with easy-to-read LED displays
- IEEE 802.3af compliancy ensures compatibility with future Power over Ethernet devices
- Mounted within SYSTIMAX racks—occupies minimal space in the telecommunications closet

Continuous, Reliable Performance and Back-up Power

- Enhanced power management allows enterprises to designate power levels per port to ensure sufficient power to all end-point devices
- Safe-powering assures safety with advanced line terminal detection
- Automatic detection and protection of legacy, non-powered, ethernet end-points
- Distributes back up power and ensures uninterrupted operation of business critical systems during power failures when deployed with an Uninterruptible Power Supply (UPS)

Specifications:

Connectors: RJ-45, EIA 568A and 568B

DB-9, Female (Management)

Dimensions: 1.75 x 17.0 x 11.9 in (4.4 x 43.3 x 30.2 cm)

Weight: 8.8 lbs (4 kg)

Temperature: Operating: 32°F to 104°F (0°C to 40°C)

Storage: -4°F to 167°F (-20°C to 75°C)

Humidity: Operating: Maximum 90% (non-condensing)

Altitude: Operating: -1,000 to 10,000 ft (-304.8 to 3048 m)

Thermal Rating: 285 BTU

Data Rate: 10/100 Mb/s

LEDs: System Indicator: AC Power (Green/Orange)

User Indicator: Channel Power (Green/Orange)

Management: Local LED Display

Power: Pin Assignment and Polarity: 4/5 (+), 7/8 (-)

Output Power Voltage: -48V

User Port Power: 15.4W maximum Power Management

Aggregate Power: 2400 / 1200 200W; 600 100W

AC Input Voltage: 88 to 264 Vac

AC Frequency: 47 to 63 Hz

AC Input Current: 3.5 A at 110 Vac, 1.8 A at 240 Vac

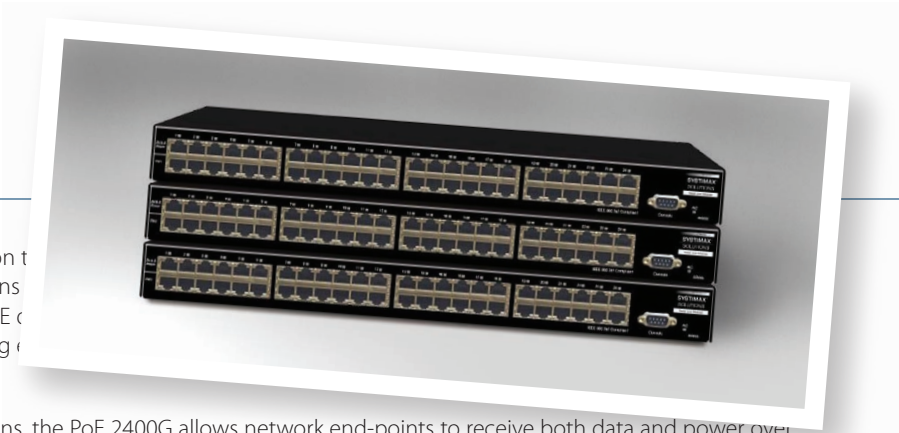
DC Input Current: 10 A at 48V

Volt Amperes Rating: 0.48 KVA (-48V); 0.30 KVA (110 VAC)

Product Options: 12- or 24-Port midspan PoE Device Configurations

Product Number	Detailed Description	Material ID
PoE 1200	12-Port PoE Device	760031575
PoE 2400	24-Port PoE Device	760031583

PoE Managed Devices



SYSTIMAX PoE 2400G is the newest addition to the SYSTIMAX family of PoE devices. It is a new method for powering enterprise applications that provides installation flexibility. The new midspan PoE device is a web-based remote management solution, giving you the ability to manage your network from anywhere.

Saves Time and Money

- Leveraging SYSTIMAX cabling solutions, the PoE 2400G allows network end-points to receive both data and power over Category 5e or Category 6 cabling
- Protects your network investment by offering a lower total cost of ownership than alternative PoE solutions
- Installation savings by deploying all your LAN infrastructure at the same time—cabling, network end-point devices, and now power

Scalable

- Quick, cost effective expansion of the network as enterprise requirements evolve
- Supports up to 1 Gbps performance for bandwidth intensive applications requiring power at the device
- Simultaneous power for up to 24 Ethernet end-points
- IEEE 802.3af compliancy ensures compatibility with future Power over Ethernet devices
- Automatically detects all PoE-ready devices

Simple to Install, Integrate, and Manage

- Eliminates the need for AC outlets and power cords at locations where network end-points are installed
- Web-based application for remote management of powered devices—no software installation required
- Real time monitoring, notification and reset capabilities to troubleshoot devices from any PC
- Mounted within SYSTIMAX SCS racks—occupies minimal space (1U) in the telecommunications closet

Continuous, Reliable Performance and Back-up Power

- Enhanced power management allows enterprises to designate power levels per port to ensure sufficient power to all end-point devices
- Safe-powering assures safety with advanced line terminal detection
- Automatic detection and protection of legacy, non-powered, Ethernet end-points
- Distributes back up power and ensures uninterrupted operation of business critical systems during power failures when deployed with an Uninterruptible Power Supply (UPS)

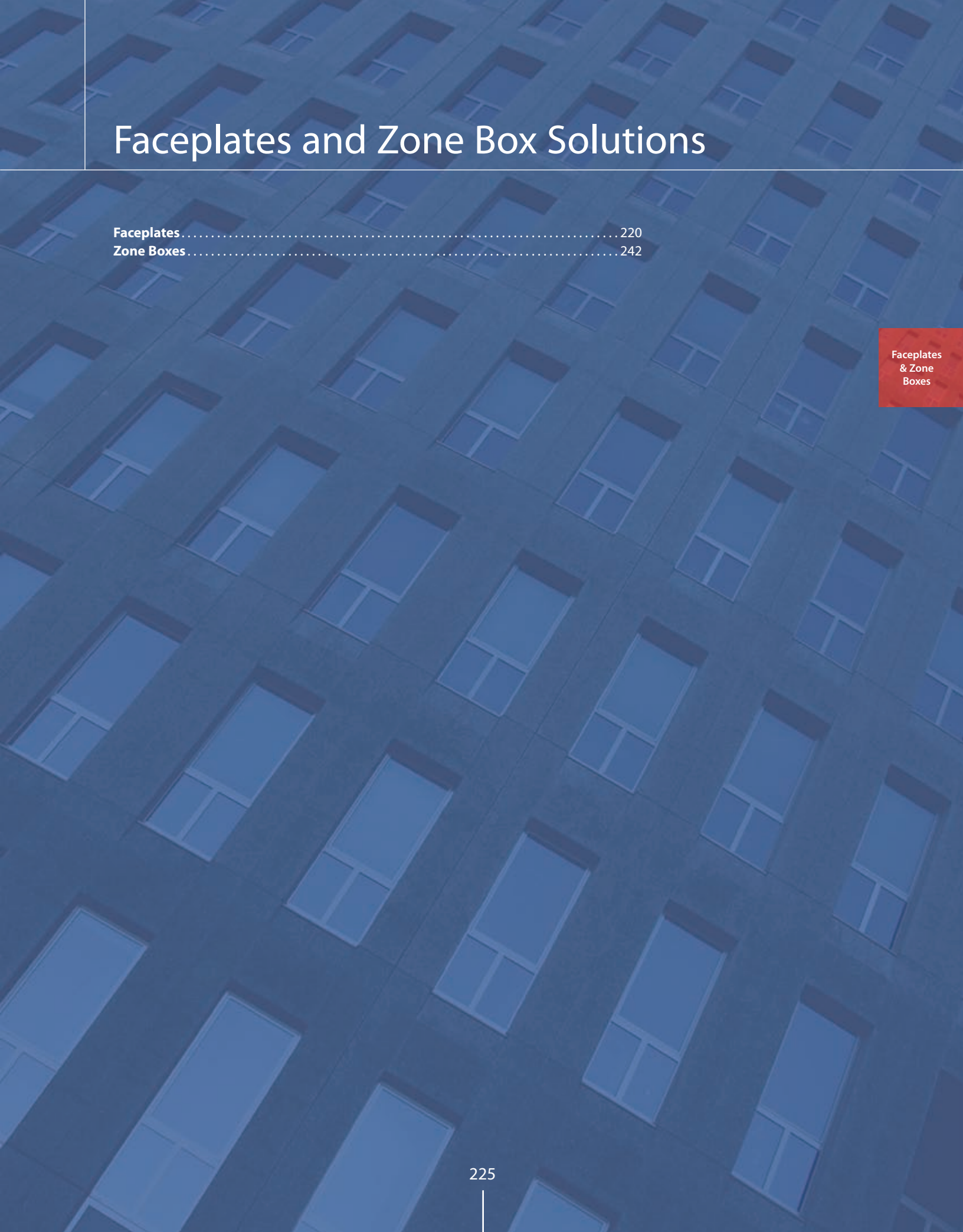
Specifications:

Connectors: RJ-45, EIA 568A and 568B
DB-9, Female (Management)
Dimensions: 1.75 x 17.0 x 11.9 in (4.4 x 43.3 x 30.2 cm)
Weight: 8.8 lbs (4 kg)
Temperature: Operating: 32°F to 104°F (0°C to -40°C)
Storage: -4°F to 158°F (-20°C to 70°C)
Humidity: Operating: Maximum 90% (non-condensing)
Altitude: Operating: -1,000 to 10,000 ft (-304.8 to 3048 m)
Thermal Rating: 200 BTU
Data Rate: 10/100/1000 Mb/s
LEDs: System Indicator: AC Power (Green/Orange)
User Indicator: Channel Power (Green/Orange)
Management: Local LED Display, Remote Management
Power: Pin Assignment and Polarity: 4/5 (+), 7/8 (-)
Output Power Voltage: -48V
User Port Power: 15.4W maximum Power Management
Aggregate Power: -200W

AC Input Voltage: 90 to 264 Vac
AC Frequency: 47 to 63 Hz
AC Input Current: 4A at 110 Vac, 2A at 220 Vac
Product Options: 24-Port midspan PoE Device with Remote Management

Product Number	Detailed Description
Material ID	
PoE 2400G	24-Port PoE Device with Remote

Management 760031591



Faceplates and Zone Box Solutions

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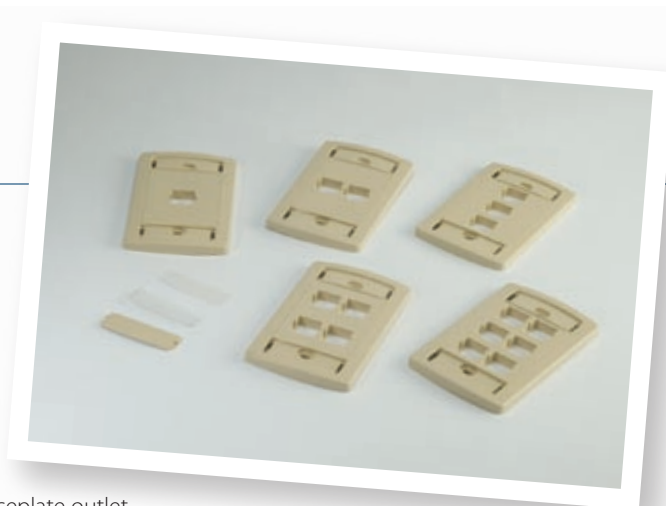
Flush Mounted Modular Faceplates

The SYSTIMAX Modular Faceplates are flush mounted multi-outlet faceplates designed for use with M-Series Modular Information Outlets.

The “LE” faceplates offer an aesthetically pleasing faceplate look with labeling features.

The “L” faceplates are flat faceplates that contain slots that cover the screws to house white labels and covers.

Two labels and covers are included with the faceplate. The faceplate outlet openings are numbered on both sides for installation and maintenance identification. Optional M20AP Dust Covers/Blanks may be used to cover any unused outlets or outlet openings.



Faceplates
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Boxes

The following models are available:

- The M10L and M10LE are single-outlet faceplates
- The M10LW is a single-outlet faceplate for use with wall-mounted telephones with a mounting distance of 3.280 inches
- The M12L and M12LE are duplex-outlet (two-hole) faceplates with side by side openings
- The M12AP is a duplex-outlet (two-hole) faceplate with vertically aligned openings
- The M13L and M13LE are triplex-outlet (three-hole) faceplates
- The M14L and M14LE are quadplex-outlet (four-hole) faceplates
- The M16L and M16LE are sixplex-outlet (six-hole) faceplates
- The M28L is a double gang eightplex-outlet (eight-hole) faceplate

Physical Specifications:

Width: MLE Series—2.84 in (7.2 cm)

M28L—4.61 in (11.7 cm)

All others—2.81 in (7.1 cm)

Height: MLE Series—4.81 in (12.2 cm)

All others—4.56 in (11.6 cm)

Depth: MLE Series—0.33 in (0.84 cm)

All others—0.29 in (0.7 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

LE-Type

Product Number	Detailed Description	Color	Material ID
M10LE-003	Simplex	Black	108332982
M10LE-215	Simplex	Creame	108332990
M10LE-246	Simplex	Ivory	108333006
M10LE-262	Simplex	White	108333014
M12LE-003	Duplex	Black	108333030
M12LE-215	Duplex	Creame	108333048
M12LE-246	Duplex	Ivory	108333055
M12LE-262	Duplex	White	108333063
M12LE-270	Duplex	Gray	108333071
M13LE-003	Triplex	Black	108333089
M13LE-215	Triplex	Creame	108333097
M13LE-246	Triplex	Ivory	108333105
M13LE-262	Triplex	White	108333113

Product Number	Detailed Description	Color	Material ID
M13LE-270	Triplex	Gray	108333121
M14LE-003	Quadplex	Black	108333139
M14LE-215	Quadplex	Creame	108333147
M14LE-246	Quadplex	Ivory	108333154
M14LE-262	Quadplex	White	108333162
M14LE-270	Quadplex	Gray	108333170
M16LE-003	Sixplex	Black	108333188
M16LE-215	Sixplex	Creame	108333196
M16LE-246	Sixplex	Ivory	108333204
M16LE-262	Sixplex	White	108333212
M16LE-270	Sixplex	Gray	108333220

Faceplates
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L-Type

Product Number	Detailed Description	Color	Material ID
M10L-003	Simplex	Black	108258401
M10L-246	Simplex	Electrical Ivory	108258419
M10L-262	Simplex	Electrical White	108258427
M10L-270	Simplex	Electrical Gray	108258435
M10LW-246	Simplex (For wall mounting of telephones)	Electrical Ivory	108258450
M10LW-262	Simplex (For wall mounting of telephones)	Electrical White	108258468
M10LW-148	Simplex (For wall mounting of telephones)	Almond	760075044
M12L-003	Duplex	Black	108168485
M12L-246	Duplex	Electrical Ivory	108168477
M12L-262	Duplex	Electrical White	108168469
M12L-270	Duplex	Electrical Gray	108168451
M13L-003	Triplex	Black	108168527
M13L-246	Triplex	Electrical Ivory	108168519
M13L-262	Triplex	Electrical White	108168501
M13L-270	Triplex	Electrical Gray	108168493
M14L-003	Quadplex	Black	108168568
M14L-246	Quadplex	Electrical Ivory	108168550
M14L-262	Quadplex	Electrical White	108168543
M14L-270	Quadplex	Electrical Gray	108168535

Product Number	Detailed Description	Color	Material ID
M16L-003	Sixplex	Black	108168600
M16L-246	Sixplex	Electrical Ivory	108168592
M16L-262	Sixplex	Electrical White	108168584
M16L-270	Sixplex	Electrical Gray	108168576
M28L-003	Eightplex (Double Gang)	Black	108685009
M28L-246	Eightplex (Double Gang)	Electrical Ivory	108685017
M28L-262	Eightplex (Double Gang)	Electrical White	108685025
M28L-270	Eightplex (Double Gang)	Electrical Gray	108685033

Product Number	Detailed Description	Color	Material ID
M12AP-246	Duplex (Vertical Alignment)	Electrical Ivory	107276172
M12AP-262	Duplex (Vertical Alignment)	Electrical White	107276180
M12AB-246	Duplex	Ivory	107648586

L-Type and LE-Type Faceplate Labels and Label Covers

Labels are on 8-1/2 x 11 inch sheets of paper that are to be used with a printer. The labels are easy to punch out since the paper is perforated in the shape of the labels. The label covers are the clear label covers that go on the faceplate.

Product Number	Package	Min. Order Qty.	Material ID
L Covers	100 covers	1 box, 5 pkgs, 500 covers	108492927
LE Covers	100 covers	1 box, 5 pkgs, 500 covers	108492935
L Labels	10 sheets/1,000 labels	1 box, 50 pkgs, 500 sheets	108492943
LE Labels	10 sheets/300 labels	1 box, 50 pkgs, 500 sheets	108492950

Flush Mounted Flexible Faceplate

SYSTIMAX Flexible Faceplate is a front access modular structure. This faceplate is universal and accommodates all M-Series jacks for copper and fiber. It is made up of a main frame and various types of adapters that snap into it. The design includes separate components: a single gang frame M13FP, a double gang frame M26FP and various adapters: single, dual, blank, S-Video and 3-Port RCA. All come in four colors: black, white, ivory and gray.

RCA and S-Video (SVHS) Adapters for the flexible faceplate are front access adapters that will accommodate the flush mount S-Video Adapter and the 3-Port RCA Adapter. These adapters will easily snap into the flexible faceplate.



Faceplates
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The RCA Adapter uses a 110 IDC (Insulation Displacement Contact) block to directly terminate the 4-pair building wiring. RCA outlets are used for connecting audio and video appliances to 24 AWG UTP SYSTIMAX wiring.

The S-Video Adapter uses a 110 IDC block to directly terminate to 4-pair building wiring. The S-Video or Super VHS (SVHS) Modular Adapter provides baseband video connectivity to 24 AWG UTP SYSTIMAX wiring. These outlets provide point-to-point transmission of analog baseband National Television System Committee (NTSC)/Phase-Alteration Line (PAL)/SECAM S-Video signals.

Physical Specifications:

Height: M13FP and M26FP—4.81 in (12.2 cm)

Width: M13FP—2.84 in (7.2 cm)

M26FP—4.61 in (11.7 cm)

Depth: M13FP—0.64 in (1.6 cm)

M26FP—0.67 in (1.7 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Material ID
M13FP-003	Flexible Faceplate - Single Gang Frame	Black	760010009
M13FP-246	Flexible Faceplate - Single Gang Frame	Ivory	760010017
M13FP-262	Flexible Faceplate - Single Gang Frame	White	760010025
M13FP-270	Flexible Faceplate - Single Gang Frame	Gray	760010033
M26FP-003	Flexible Faceplate - Double Gang Frame	Black	760008607
M26FP-246	Flexible Faceplate - Double Gang Frame	Ivory	760008615
M26FP-262	Flexible Faceplate - Double Gang Frame	White	760008623
M26FP-270	Flexible Faceplate - Double Gang Frame	Gray	760008631
M30FP-1RJ45-246	Single Port Adapter	Ivory	760009431
M30FP-1RJ45-262	Single Port Adapter	White	760009449
M30FP-1RJ45-270	Single Port Adapter	Gray	760009456
M30FP-2RJ45-003	Double Port Adapter	Black	760008649
M30FP-2RJ45-246	Double Port Adapter	Ivory	760008656
M30FP-2RJ45-262	Double Port Adapter	White	760008664
M30FP-2RJ45-270	Double Port Adapter	Gray	760008672
M30FP-BLANK-003	Blank Adapter	Black	760009464
M30FP-BLANK-246	Blank Adapter	Ivory	760009472
M30FP-BLANK-262	Blank Adapter	White	760009480
M30FP-BLANK-270	Blank Adapter	Gray	760009498

Product Number	Detailed Description	Color	Material ID
M30FP-SVHS-110	Flush Mount S-VHS Adapter	Black	760013094
M30FP-SVHS-110	Flush Mount S-VHS Adapter	Ivory	760013102
M30FP-SVHS-110	Flush Mount S-VHS Adapter	White	760013110
M30FP-SVHS-110	Flush Mount S-VHS Adapter	Gray	760013128
M30FP-3RCA-110	3-Port RCA Adapter	Black	760017541
M30FP-3RCA-110	3-Port RCA Adapter	Ivory	760017558
M30FP-3RCA-110	3-Port RCA Adapter	White	760017566
M30FP-3RCA-110	3-Port RCA Adapter	Gray	760017574
M30FP-VGA-PT-262	M30FP VGA Adapter	White	760028720
M30FP-VGA-PT-270	M30FP VGA Adapter	Gray	760028738
M30FP-VGA-PT-003	M30FP VGA Adapter	Black	760028704
M30FP-VGA-PT-246	M30FP VGA Adapter	Ivory	760028712

Flush Mounted Metal Faceplates

These flush mounted metal faceplates in 2-, 3-, 4- and 6-port size are designed to be used with the M-Series modular outlets mounted at a 90 or 45 degree angle. When mounted at the 90 degree angle, the front of the outlet is flush with the front of the stainless steel faceplate.

These faceplates include an adapter riveted to the stainless steel that accepts the M-Series outlets. The dimensions are approximately 2.75 in (7.0 cm) wide by 4.5 in (11.3 cm) high by 0.3 in (0.7 cm) deep, fitting a NEMA box as small as 1.75 in (4.4 cm) wide by 4.125 in (10.5 cm) high by 1.75 in (4.4 cm) deep.



Individual packaging includes one faceplate and two combination head (Phillips/slot) mounting screws for installation in a standard NEMA electrical box.

Physical Specifications:

Height: 4.50 in (11.4 cm)

Width: 2.75 in (7.0 cm)

Depth: 0.16 in (0.4 cm)

Product Number	Detailed Description	Material ID
M11SP-L	Simplex	760072074
M12SP-L	Duplex	760072181
M13SP-L	Triplex	760072199
M14SP-L	Quadplex	760072207
M16SP-L	Sixplex	760072215
M12SP	Duplex	108615188
M13SP	Triplex	108615196
M14SP	Quadplex	108615204
M16SP	Sixplex	108615212
M10LW		760024463
63038	Outler	104206701

Product Number	Detailed Description	Material ID
M14SP	Quadplex Brass	760017988
M13SP	Triplex Statuary Bronze	760067686
M12BBrass	Duplex Brass	760060608
M13BBrass	Triplex Brass	760060616
M14BBrass	Quadplex Brass	760060624
M12BBronze	Duplex Bronze	760060632
M13BBronze	Triplex Bronze	760060640
M14BBronze	Duplex Bronze	760060657
M10L-003	Brushed Statuary Bronze	760061325
1-Port BrshBrass-Single	Single Gang, 1-Port Brushed Brass	760061580
1-Port BrDkStatBrnz	Single Gang, 1-Port Brushed Dark Statuary Bronze	760062349
4-Port BrshBrass	Double Gang, 4-Port Brushed Brass	760061598
4-Port StStl	Double Gang, 4-Port Stainless Steel Faceplate	760067249
6-Port BrDarkStBrnz	Single Gang, 6-Port Brushed Dark Statuary Bronze	760062331

Faceplates
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Flush Mounted Multimedia Faceplate

The M10MMFP faceplate provides the opportunity to deploy copper and fiber media to the workstation for new and existing installations. The product enables you to fasten a flush mount faceplate (i.e. M12L, M14L, M12LE, M14LE, etc.) to the front of the unit—for installation of up to 6 copper M-Series modules and provides alternatives for fiber connectors installed vertically at the base of the product. It may be configured with ST, SC or LC adapters in various densities.



Adapter plates are provided for use with the SC duplex, LC duplex or the high-density modular adapter strips available for ST, SC and LC connectors. The plates can be installed either right at the base (exposed) or recessed in unit, providing additional protection for the fibers. Additionally, the fiber adapter strips provide high-density capability for customer applications. The M10MMFP incorporates fiber slack storage to manage fiber termination.

The M10MMFP also features either rear (4) or side (2) entry ports for cabling, providing flexibility for either wall-mount or raceway installs.

The attractive cover snaps onto the base, providing protection for the fiber connections. The cover also provides labeling features such as a paper label for circuit identification and plastic icon strips (in 9 colors). In addition, the cover may be attached to the base with the screws, affording tamper resistance.

The M10MMFP Multimedia Faceplate includes: 1 multimedia unit (cover and base); 3 Fiber Adapter Plates- SC Adapter Plate, LC Adapter Plate and Plate for SC, ST or LC adapter strips; 1-1/4 in truss head screws; K35 by 12 mm pan head Phillips PT® screws; label; clear plastic label cover; installation instructions; plastic icon strips in 9 colors (gray, blue, yellow, orange, red, white, brown and purple).

Physical Specifications:

Height: 8.76 in (22.2 cm)

Width: 4.50 in (11.4 cm)

Depth: 1.14 in (2.9 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
M10MMFP-246	Multimedia	Ivory	1	108502303
M10MMFP-262	Multimedia	White	1	108502329
M10MMFP-270	Multimedia	Gray	1	108502337

Flush Mounted Modular Mounting Frames

The M105FR1, M106FR2, M108FR3 and M106FR4 Modular Mounting Frames are flush mounted multi-outlet modular mounting frames designed for use with the M-Type modular information outlets. The M105FR1 is a single outlet modular mounting frame. The M106FR2 is a duplex outlet modular mounting frame. The M106FR4 is a quadplex outlet modular mounting frame.



The M108FR3 is a triplex modular mounting frame. A standard DeCorra in style faceplate fits over the frame.

Physical Specifications:

Height: M108FR3: 3.93 in (10.0 cm)

All others: 4.10 in (10.4 cm)

Width: M108FR3: 1.40 in (3.6 cm)

All others: 1.75 in (4.4 cm)

Depth: M108FR3: 0.29 in (0.7 cm)

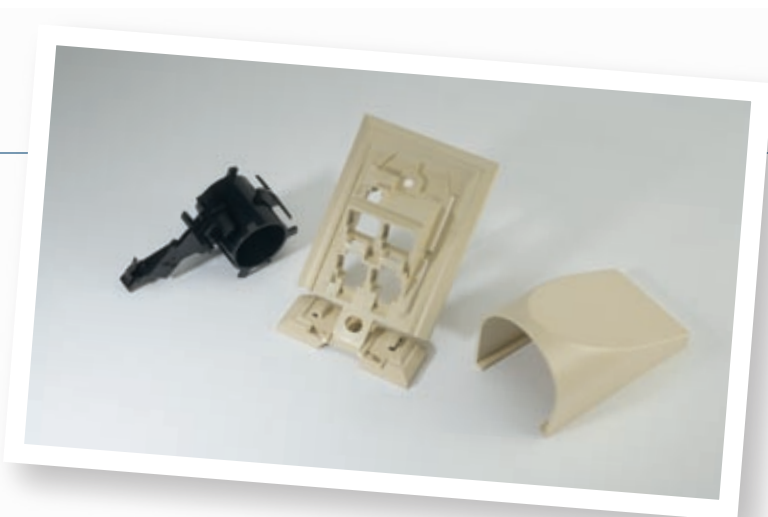
All others: 0.50 in (1.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Material ID
M105FR1-246	Simplex	Electrical Ivory	106622160
M105FR1-262	Simplex	Electrical White	106622178
M105FR1-270	Simplex	Electrical Gray	106688401
M106FR2-003	Duplex	Black	106628852
M106FR2-246	Duplex	Electrical Ivory	106622210
M106FR2-262	Duplex	Electrical White	106622251
M106FR2-270	Duplex	Electrical Gray	106688393
M108FR3-148	Triplex	Almond	760074229
M108FR3-003	Triplex	Black	108265430
M108FR3-246	Triplex	Electrical Ivory	108265448
M108FR3-262	Triplex	Electrical White	108265455
M108FR3-270	Triplex	Electrical Gray	108265463
M106FR4-003	Quadplex	Black	106627763
M106FR4-246	Quadplex	Electrical Ivory	106622277
M106FR4-262	Quadplex	Electrical White	106622285
M106FR4-270	Quadplex	Electrical Gray	106688385

4-Port Flush Mount Outlet

The 4-Port Flush Mount Outlet is designed to mount on a wall surface and will fit any standard National Electrical Manufacturers Association (NEMA) electrical box. The flush mounted faceplate has 45 degree angular ports for fiber and copper connectors and has a protective angled hood. The hinged base of the faceplate allows changes and maintenance to occur without reinstalling the faceplate. The fiber organizer spool bend-radius provides control and storage for fiber slack.



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The 4-Port Flush Mount Outlet can be used in the following environments:

- In an ALL COPPER environment, the 4-Port Flush Mount Outlet will support up to four M-Series connectors, four M81LC mounting modules, or up to two M-Series connectors or M81C mounting modules. When fiber is introduced into the application, the number of ports available for connectors is reduced by one
- In an ALL FIBER environment, the M14MMO will support two simplex ST or SC connectors, four M81LC connectors, or two duplex SC connectors
- In an integrated FIBER/COPPER environment, the 4-Port Flush Mount Outlet will support one M-Series copper connector and two simplex SC or ST connectors, or one M-Series copper connector and one duplex SC connector

Physical Specifications:

Height: 5.69 in (14.5 cm)

Width: 3.28 in (8.30 cm)

Depth: 1.29 in (3.3 cm) faceplate, 2.77 in (7.00 cm) hood and faceplate, 5.30 in (13.5 cm) hood/faceplate/spool

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Material ID
M14MMO-003	Quadplex	Black	107655169
M14MMO-246	Quadplex	Electrical Ivory	107655177
M14MMO-262	Quadplex	Electrical White	107655185
M14MMO-270	Quadplex	Electrical Gray	107655193

4-Port Modular Furniture Faceplate

M4CA faceplate is designed for modular furniture applications requiring either fiber and/or copper connectivity. The M4CA has M-Series sockets with snap indentations orientated top and bottom to accommodate up to 4 M-Series jacks. The M4CA will also accommodate 4 fiber modular telecommunications outlets such as the “LC couplings and jumpers for modular furniture” within TIA standard cavity depth of 1.2 inch minimum. The LazrSPEED angle mount fiber jumper assembly may also be used with this faceplate.

Modular office furniture manufacturers have used a wide range of panel openings for their data and voice outlets. The M4CA will adjust to fit many of these. It may be mounted on any flat surface with a material thickness of 0.025 in to 0.125 in (0.63 mm to 3.18 mm). It may be easily installed in any rectangular opening size ranging from 1.7 in high by 2.792 in wide (4.32 cm x 7.09 cm) to 2.375 in high by 4.125 in wide (6.03 cm x 10.48 cm).

The surface finish is the same as that used on the LE series faceplates. Each M4CA kit includes frame, cover, latch bars (shipped attached to the frame) and a paper label that may be used for identification of each port, along with a protective clear plastic label cover.

Physical Specifications:

Height: 2.98 in (7.6 cm)

Width: 4.73 in (12.0 cm)

Depth: 0.50 in (1.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Material ID
M4CA-003	Quadplex	Black	700189046
M4CA-262	Quadplex	White	700191588
M4CA-246	Quadplex	Ivory	700191570
M4CA-270	Quadplex	Grey	700191596



6-Port Modular Furniture Faceplate

The M26C Modular Furniture Sixplex Outlet Faceplate is a flush mounted faceplate designed to snap into modular furniture raceway covers. The M26C holds up to six M-Series or M-81 Series mounting modules. Both sides of the faceplate are numbered for easy installation and maintenance identification. The M20AP dust cover/blank can be used to protect unused outlets and cover unused faceplate openings. Fits modular furniture knock-out size 1.374 in (3.49 cm) high x 5.251 in (13.34 cm) wide.

Physical Specifications:

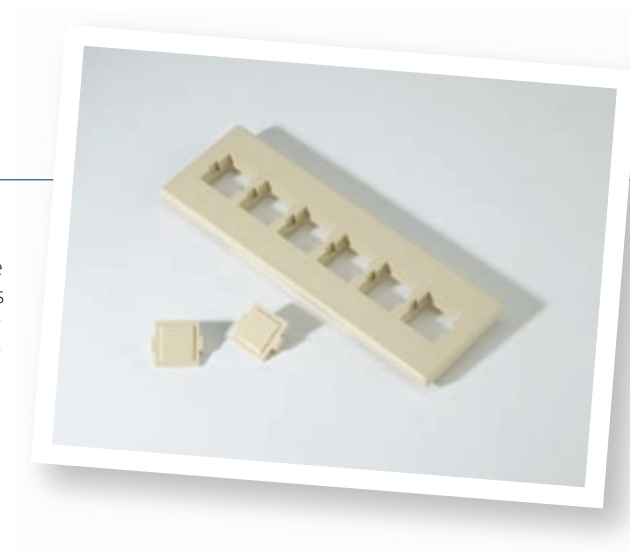
Height: M26C—1.9 in (4.8 cm)

Width: M26C—5.6 in (14.2 cm)

Depth: M26C—0.5 in (1.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Material ID
M26C-246	Sixplex	Electrical Ivory	107167496



3-Port Faceplate for SteelCase™ Furniture

The M13C and M13CLS Modular Furniture Triplex Outlet Faceplates are flush mounted triplex modular faceplates designed to fit modular furniture raceway covers for the following SteelCase furniture lines: (E)9000, Segment (with correct bezel), Answer, Montage, Avenir, Elective Elements and Context. The M13C holds up to three M-Series or fiber modular telecommunications outlets and has numbering on both sides of the faceplate for installation and maintenance identification. The M20AP dust cover/blank can be used to protect unused outlets and cover unused faceplate openings. The M13C Faceplate is used in an opening size of 1.38 in (35.1 mm) in height and 2.71 in (68.8 mm) in width (dimensions are +/- .01 in).



Faceplates
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Boxes

The M13CLS Faceplate is part of the LazrSPEED Solution and it holds M-Series modules that snap in horizontally and can also be angled. The M13CLS Faceplate is used in an opening size of 1.375 in +/- 0.025 in (34.93 mm +/- 0.64 mm) in height and 2.700 in +/- 0.050 in (68.58 mm +/- 1.27 mm) in width.

Physical Specifications:

Height: 1.84 in (4.7 cm)

Width: 3.13 in (7.9 cm)

Depth: 0.29 in (0.7 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Detailed Description	Color	Material ID
M13C-003	Triplex	Black	106650864
M13C-246	Triplex	Electrical Ivory	106650880
M13C-262	Triplex	Electrical White	106650898
M13C-270	Triplex	Electrical Gray	106701154
M13CLS-246	Triplex	Ivory	108564675
M13CLS-262	Triplex	White	108564683
M13CLS-270	Triplex	Gray	108564691
M13CLS-003	Triplex	Black	108564709
M13CLS-215	Triplex	Misty Creme	108564725

3-Port Faceplate for Herman Miller™ Action Furniture

The M13HM faceplate is designed to fit to the data communications opening in the Herman Miller Action Office System series of modular furniture.

The M13HM has M-Series sockets with snap indentations to accommodate three M-Series jacks. Above the M-Series openings is space for a paper label insert with a clear plastic label holder (included).

Mounting clips are molded within the M13HM faceplate. No screws required for mounting and securing the faceplate to the opening.

1 Kit of Parts = 25 M13HM Faceplates with label inserts and label holders.
Minimum Order Quantity (MOQ) = 1 Kit of Parts

Physical Specifications:

Height: 2.13 in (5.5 cm)

Width: 3.5 in (8.8 cm)

Depth: 0.25 in (0.65 cm)



Product Number	Detailed Description	Color	Material ID
M13HM-003	Triplex Faceplate Kit of Parts	Black	760045039
M13HM-246	Triplex Faceplate Kit of Parts	Ivory	760045047
M13HM-262	Triplex Faceplate Kit of Parts	White	760045054
M13HM-270	Triplex Faceplate Kit of Parts	Gray	760045062

4-Port Faceplate for Knoll™, SteelCase™ and Herman-Miller™

The M14 Modular Furniture Quadplex Outlet Faceplates hold up to four M-Series modular outlets or M81-Series Mounting Modules. Both sides of the faceplate are numbered for easy installation and maintenance identification.

The M14C Faceplate is a flush mounted modular faceplate designed to fit the Knoll, Inc. line of modular furniture raceway covers. Packaged with two color coordinated M20AP dust cover/blanks to cover unused ports. The M14C Faceplate is used in an opening size of 1.609 inches in height and 3.358 inches in width (dimensions are +/- .01 inch).

The M14CE faceplate is designed to fit SteelCase modular furniture and is used in an opening size of 1.38 in (3.51 cm) in height and 2.71 in (6.88 cm) in width.

The M14CH Faceplate is a flush mounted modular faceplate designed to fit the Herman-Miller-Ethospace beltline modular furniture raceway covers. The M14CH Faceplate is used in an opening of 1.750 inches in height and 2.832 inches in width (dimensions are +/- 0.005 in).

Physical Specifications:

Height: M14C: 2.11 in (5.4 cm)

M14CE: 2.16 in (5.5 cm)

M14CH: 2.0 in (5.1 cm)

Width: M14C: 4.07 in (10.3 cm)

M14CE: 4.07 in (10.3 cm)

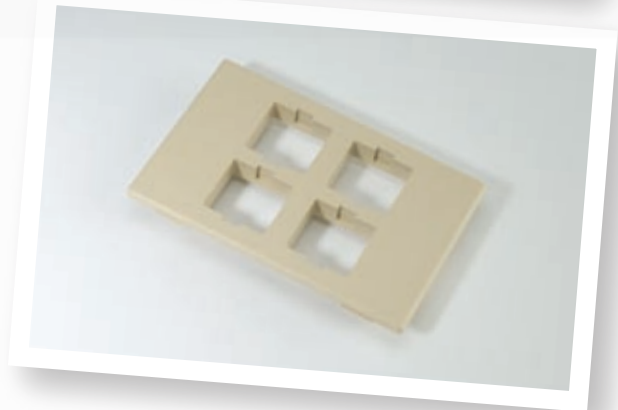
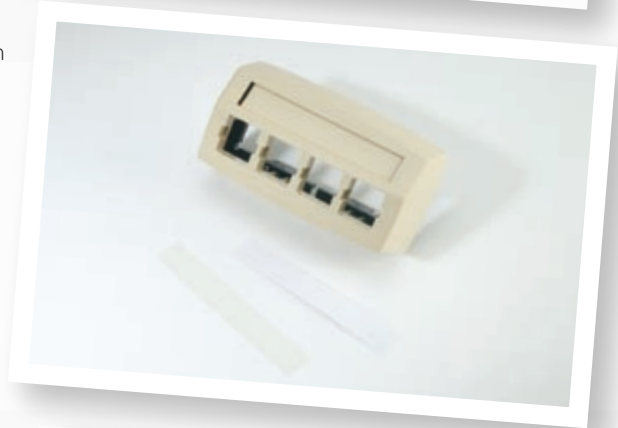
M14CH: 3.13 in (7.9 cm)

Depth: M14C: 0.53 in (1.3 cm)

M14CE: 1.27 in (5.5 cm)

M14CH: 0.38 in (1.0 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic



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Product Number	Detailed Description	Color	Material ID
M14C-003	Quadplex	Black	106650849
M14C-270	Quadplex	Gray	107167462
M14C-148	Quadplex	Almond	107167488
M14CE-003	Quadplex	Black	108216151
M14CE-246	Quadplex	Ivory	108216144
M14CE-262	Quadplex	White	108216128
M14CE-270	Quadplex	Gray	108216136
M14CH-003	Quadplex	Black	108406414
M14CH-246	Quadplex	Ivory	108406422
M14CH-262	Quadplex	White	108406430
M14CH-270	Quadplex	Gray	108406448
M14C-262	Quadplex	White	760071258
M14B-148	Quadplex	Almond	106602345

Rectangular Mounting Collar for M-Series Outlets

The M30MC Mounting Collar is designed to fit into a rectangular opening. The width of the opening will always be 0.763 inch (19.38 mm). However, the height of the opening is variable based on the thickness of the material into which the collar is pressed. The material thickness is restricted to the range, 0.025 inch to 0.125 inch (0.64 mm to 3.17 mm).

Physical Specifications:

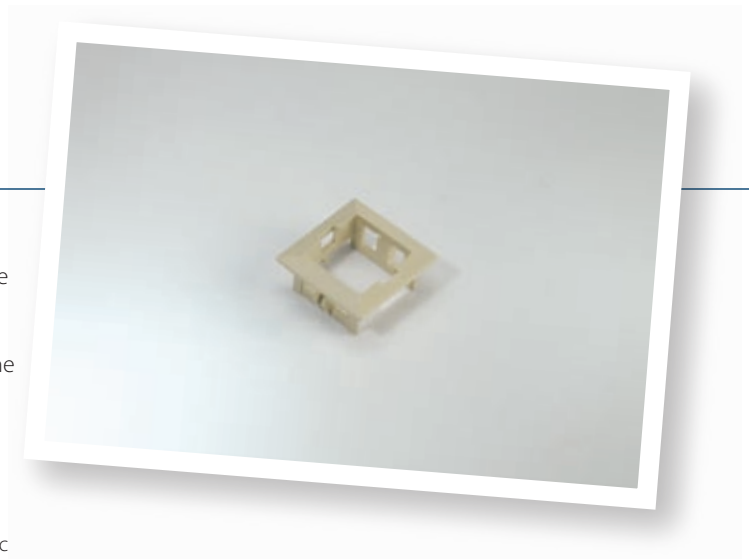
Height: 1.00 in (2.5 cm)

Width: 1.03 in (2.6 cm)

Depth: 0.46 in (1.2 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Color	Material ID
M30MC-003	Black	106664154
M30MC-246	Electrical Ivory	106664139
M30MC-262	Electrical White	106664147
M30MC-270	Electrical Gray	106697089



Circular Mounting Collar for M-Series Outlets

The M30CC Circular Collar is a plastic circular collar designed to support the M-Series modules. The M30CC can be used in furniture such as a desk or cabinet, on a flat wall panel, or on a flat metal panel. The supporting panel or wall structure must be between 0.04 in. and 0.13 in (0.1 cm and 0.32 cm) in thickness, inclusively.

The M30CC collar supports a single telecommunications outlet such as the M-Series and can also support the M81-Series mounting modules.

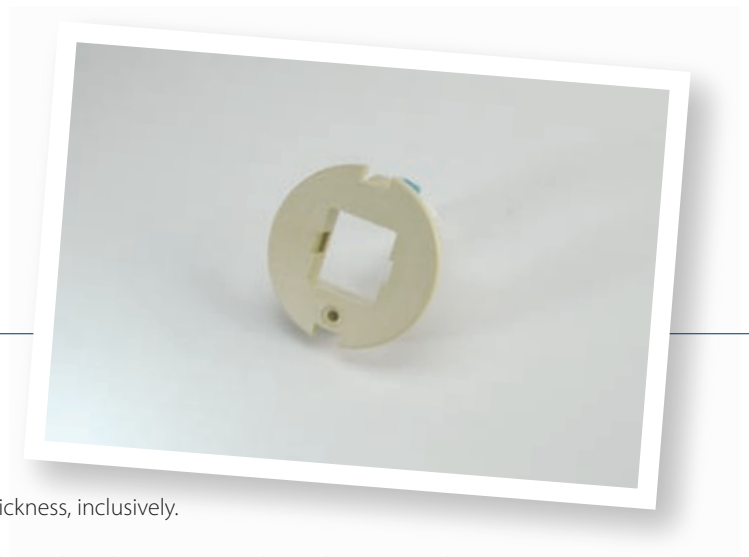
Physical Specifications:

Outside Diameter: 1.60 in (4.1 cm)

Depth: 0.50 in (1.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Color	Material ID
M30CC-246	Ivory	106986110



Modular Faceplates and Clips

Germany/Benelux Applications

The range of Benelux/German standard Information Outlets include the M18930 Surface Outlet, M18932 Flushmount Centerplate, M02714 Coverplate and M81 Dustcovers.

The M18930 Outlet is a surface-mounted duplex M-Series Modular Information Outlet designed for use with two M-Series high-density modules. The outlet openings have provision for label identification.

The M18932 Centerplate is a flush mounted Centerplate which is also designed to accept two M-Series HDM's. The M18932 mounts in a German/Benelux standard electrical box with centerplate mounting dimensions of 60 mm center to center and with a minimum depth of 32 mm. The outlet openings have provision for label identification.

The M02714 flush mount coverplate is used with the M18932 centerplate to provide a frame around the mounting screws of the centerplate.

The M81 are dust covers designed for use with the M18930 and M18932 faceplates. The M81 is used in empty jack openings which are not populated with high-density modules.

Physical Specifications:

Height: M18930 and M02714 = 8.0 cm

M18932 = 5.0 cm

M81 = 1.8 cm

Width: M18930 = 6.5 cm

M18932 = 5.0 cm

M02714 = 8.0 cm

M81 = 2.6 cm

Depth: M18930 = 3.5 cm

M18932 = 0.73 cm

M02714 = 0.55 cm

M81 = 1.3 cm



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Product Number	Detailed Description	Mounting	Color	Material ID
M02714-246	M18932-246 Coverplate	Flush	Ivory	106720212
M18930-246	Duplex	Surface	Ivory	106720196
M18932-246	Duplex	Flush	Ivory	106720204
M02714-262	M18932-262 Coverplate	Flush	White	107052359
M18930-262	Duplex	Surface	White	107052334
M18932-262	Duplex	Flush	White	107052326
M81-246	Blank		Ivory	106837222
M81-262	Blank		White	106837230

Modular Faceplates and Clips

Scandinavian Applications

The MFUGA Scandinavian faceplate is a dual flush mount faceplate which mounts in a FUGA box (or equivalent) and accepts two high-density modules. It consists of the cover and baseplate.

The MFUGAS Scandinavian faceplate is a single flush mount faceplate which mounts in a FUGA box (or equivalent) and accepts one high-density module. It consists of the cover, baseplate and mounting plate.

The MTDL80 Universal faceplate is a dual semi-surface mounted faceplate which can be surface or flush mounted on a standard electrical box (60 mm mounting) and also mounted on any type of electrical trunking. It accepts two high-density modules. It comes complete (without HDMs) and ready to mount.

The M12D OPUS Faceplate is used in the OPUS, SENSIQ 66x66 and EPUS 66x66 switch and socket outlet system. It should be mounted together with mounting frames. It is suited for use in Denmark, East and North European markets.

The MCAN faceplate is a dual flush mount faceplate which mounts on a CAN/Clickline electrical box (or equivalent) and accepts two high-density modules. The MCAN Kit consists of a faceplate and an adapter frame for mounting in a standard IEC (c/c 60 mm) electric box. The MCAN Adapter Frame provides secure and tidy mounting for the MCAN Faceplate in a standard IEC wall box (c/c 60 mm).



Physical Specifications:

Height: MFUGA = 71 mm
MFUGAS = 45 mm
MTDL80 = 80 mm
M12D- OPUS = 58 mm
MCAN = 85 mm

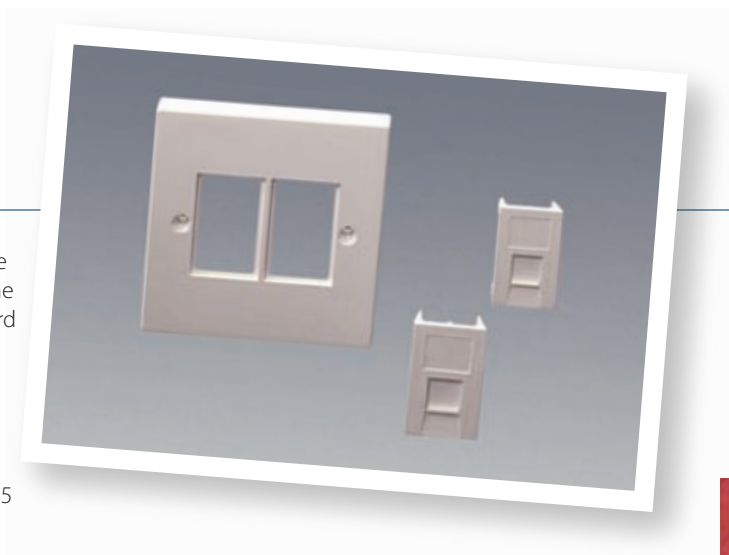
Width: MFUGA, MFUGAS = 45 mm
MTDL80 = 80 mm
M12D- OPUS = 58 mm
MCAN = 85 mm

Depth: MFUGA, MFUGAS = 8.5 mm
MTDL80 = 36 mm
M12D- OPUS = 12 mm
MCAN = 8.8 mm

Product Number	Detailed Description	Color	Material ID
MFUGA-262	Duplex	White	106790140
MFUGAS-262	Simplex	White	106969066
MCAN-DL-262	Duplex	White	106790165
MTDL-8D-262	Duplex	White	106790132
M12D-262 OPUS	Duplex	White	107818320

Modular Faceplates and Clips UK Applications

The range of UK Standard Information Outlets consists of the M12D and M14D Faceplates and the LF80 and LF00 Clips. The M12D is a flush mounted, duplex, 2-gang UK/Ireland standard faceplate designed to accept two LF80 or LF00 clips (or any combination of the two). The M14D is a flush mounted, quadplex, 4-gang UK/Ireland standard faceplate designed to accept four LF80 or LF00 clips (or any combination of the two). The standard package for each includes the faceplate plus two mounting screws for installation in a UK standard 35 mm (for Mark V) or 32 mm (for Mark VI) electrical box.



Faceplates & Zone Boxes

The LF80 Clips (Mark V and Mark VI) fit into the M12D and M14D and accept one high-density module. The Mark V is equipped with a spring-loaded shutter to protect the HDM from dust. It can be cabled through the faceplate and fits into minimum 35 mm depth boxes. There is a provision for port labeling. The Mark VI is angled and has a unique shutter design. It can be cabled through the faceplate and fits into minimum 32 mm depth boxes.

The LF00 Clip is a blank snap-in clip used in vacant slots of the M12D or M14D faceplate.

Physical Specifications:

Height: Faceplate: 8.50 cm

Clip: 3.8 cm

Width: Faceplate: M12D = 8.5 cm, M14D = 14.6 cm

Clip: 2.5 cm

Depth: Faceplate: 0.90 cm

Mark V and LF00 Clip: 1.4 cm

Mark VI Clip: 2.0 cm

Product Number	Color	Material ID
M12D Faceplate	White	407900471
M14D Faceplate	White	407900463
LF80 Mark V Clip	White	407900422
LF80 Mark VI Clip	White	407901909
LF00 Blank Clip	White	407900448
M12D Back Box 32mm	White	999901701
M14D Back Box 32mm	White	999901703
M12D Back Box 37mm	White	999901706
M14D Back Box 37mm	White	999901704
M12D Back Box 45mm	White	999901702
M14D Back Box 45mm	White	999901705

Modular Faceplates and Clips

Italian Applications

The LF82 and LF83 Clips each accept one high-density module and are designed specifically for the Italian market. The LF82 Clip is black in color while the LF83 is ivory. The LF82 and LF83 Clips fit in a standard Italian faceplate which can then be mounted onto an Italian standard electrical box with a minimum depth of 32 mm. There is a provision for port labeling.

Physical Specifications:

Height: 4.39 cm

Width: 2.48 cm

Depth: 2.50 cm

Product Number	Color	Material ID
LF82 Clip	Black	106961311
LF83 Clip	Ivory	106961329
Faceplate—Living	White	108086638
Faceplate—Living	Black	108086646



Modular Faceplates and Clips

French Applications

The M12LG Clip accepts one (M12 Dual Clip accepts two) high-density module(s) and is equipped with a spring-loaded shutter to protect the HDM from dust. It is designed specifically for the French market and fits in the Legrand Mosaic faceplate. The clip (inserted in the faceplate) can be mounted into a French standard electrical box with a minimum depth of 32 mm. There is a provision for port labeling.

Physical Specifications:

Height: 4.50 cm

Width: 4.50 cm

Depth: 2.50 cm

Product Number	Color	Material ID
M12LG-262	White	107347080
M12-262	White	107991143



Modular Faceplates and Clips

French Applications

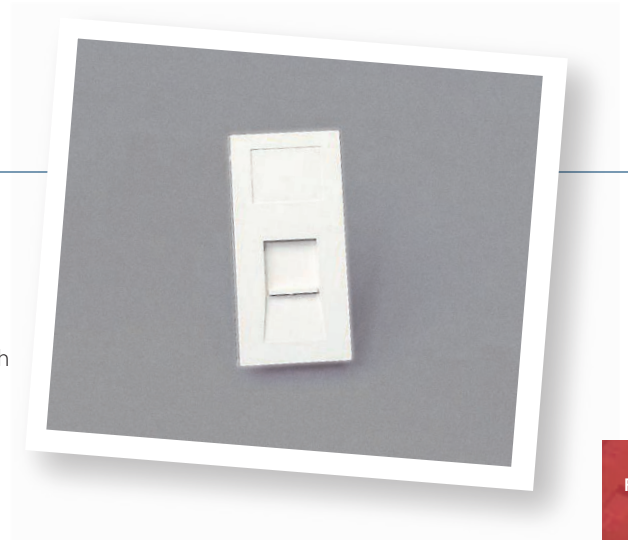
The LF81 Clip accepts one high-density module and is equipped with a spring-loaded shutter to protect the HDM from dust. It is designed specifically for the French market and fits in a standard 50 mm x 25 mm molded Legrand faceplate. The clip (while inserted in the faceplate) can be mounted into a French standard electrical box with a minimum depth of 32 mm. There is a provision for port labeling.

Physical Specifications:

Height: 5.0 cm

Width: 2.5 cm

Depth: 1.4 cm



Faceplates
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Product Number	Color	Material ID
LF81 Clip	Ivory	108230632

Modular Faceplates

Asia Pacific Applications

The range of Asia Pacific Information Outlets consists of the M10CF, M12CF and M14CF Faceplates. All faceplates are flush mounted. The M12 and M14 are available in unshuttered and shuttered versions.



Product Number	Detailed Description	Material ID
M12CF-262	2-Port Faceplate Shuttered	760003038
M14CF/S-262	4-Port Faceplate Shuttered	760026203

Dust Covers for M-Series Faceplates and Outlets

The M20AP Covers are dual-purpose blank Dust Covers designed for use with the modular outlets and modular faceplate kits (except for the Shuttered clips and Benelux faceplates).

When the M20AP is used as a Dust Cover, it is inserted over the outlet opening and will protect the jack wires from dust. The M20AP can also be used with modular faceplates as a blank cover for empty jack openings which are not populated with modular outlets.

The M21A Dust Covers are for use with the M-Series modular outlets. The M21A installs over the Jack opening of the M-Series outlet, leaving the Icon area accessible.

The M20AP is packaged with 100 dust cover/blanks per box. The M21A is packaged 100 to a bag with 5 bags in a box.

The M81 is an M-Series modular blank with rear snap-in and used to fill empty ports in M-Series modular faceplates, surface mount boxes or mounting collars.

Physical Specifications:

Height: 0.69 in (1.8 mm)

Width: 0.75 in (1.9 mm)

Depth: 0.20 in (0.05 mm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic



Product Number	Color	Material ID
M20AP-003	Black	107065583
M20AP-246	Electrical Ivory	107067860
M20AP-262	Electrical White	107067928
M20AP-270	Electrical Gray	107067951
M20AP-215	Cream	108481003
M20AP-148	Almond	760075051
M21A-003	Black	108066325
M21A-112	Orange	108066333
M21A-123	Yellow	108066341
M21A-226	Green	108066358
M21A-246	Ivory	108066457
M21A-262	White	108066465
M21A-270	Gray	108066473
M21A-317	Red	108066481
M21A-318	Blue	108066499
M21A-361	Violet	108337692
M21A-215	Misty Cream	108480997

Modular Information Outlet ICON Inserts

The M60 and M61 ICONs are small plastic inserts used to depict applications of specific jacks on the M-Series modular information outlet. The ICONs are packaged 25 in a polybag, and 20 polybags in a box. The M60 ICONs are etched with the following symbol word:

- Telephone—symbol representing a telephone application
- Computer—symbol representing a computer application
- DATA—word representing a data application
- VOICE—word representing a voice application
- Blank—has blank space for writing or denoting any application the user may designate or require

Product Number	Detailed Description	Color	Material ID
M60A-003	Telephone ICON	Black	107296386
M60A-112	Telephone ICON	Orange	107296402
M60A-123	Telephone ICON	Yellow	107296394
M60A-226	Telephone ICON	Green	107296410
M60A-246	Telephone ICON	Ivory	107296352
M60A-262	Telephone ICON	White	107296378
M60A-270	Telephone ICON	Gray	107296360
M60A-317	Telephone ICON	Red	107296428
M60A-318	Telephone ICON	Blue	107296436
M60B-003	Blank ICON	Black	107296485
M60B-112	Blank ICON	Orange	107296501
M60B-123	Blank ICON	Yellow	107296493
M60B-226	Blank ICON	Green	107296519
M60B-246	Blank ICON	Ivory	107296451
M60B-262	Blank ICON	White	107296477
M60B-270	Blank ICON	Gray	107296469
M60B-317	Blank ICON	Red	107296527
M60B-318	Blank ICON	Blue	107296444
M60C-112	Computer ICON	Orange	107296584
M60C-123	Computer ICON	Yellow	107296576
M60C-226	Computer ICON	Green	107296592
M60C-246	Computer ICON	Ivory	107296535
M60C-262	Computer ICON	White	107296550
M60C-270	Computer ICON	Gray	107296543
M60C-317	Computer ICON	Red	107296600
M60C-318	Computer ICON	Blue	107296618
M60D-003	DATA ICON	Black	107296659
M60D-112	DATA ICON	Orange	107296675
M60D-123	DATA ICON	Yellow	107296667
M60D-226	DATA ICON	Green	107296683
M60D-246	DATA ICON	Ivory	107296626
M60D-262	DATA ICON	White	107296642
M60D-270	DATA ICON	Gray	107296634
M60D-317	DATA ICON	Red	107296691
M60D-318	DATA ICON	Blue	107296709

Faceplates
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Product Number	Detailed Description	Color	Material ID
M60E-003	VOICE ICON	Black	107296741
M60E-112	VOICE ICON	Orange	107296766
M60E-123	VOICE ICON	Yellow	107296758
M60E-226	VOICE ICON	Green	107296774
M60E-246	VOICE ICON	Ivory	107296717
M60E-262	VOICE ICON	White	107296733
M60E-270	VOICE ICON	Gray	107296725
M60E-317	VOICE ICON	Red	107296782
M60E-318	VOICE ICON	Blue	107296790
M60M-148	Voice/Computer/Telephone ICON	Almond	760076034
M61A-003	icon for MGS400	Black	108065657
M61A-112	icon for MGS400	Orange	108065673
M61A-123	icon for MGS400	Yellow	108065707
M61A-215	icon for MGS400	Misty Cream	108481011
M61A-226	icon for MGS400	Green	108065731
M61A-246	icon for MGS400	Electrical Ivory	108065756
M61A-262	icon for MGS400	Electrical White	108065780
M61A-270	icon for MGS400	Electrical Gray	108065806
M61A-317	icon for MGS400	Red	108065814
M61A-318	icon for MGS400	Blue	108065822
M61F-003	voice icon Connector	Black	108066234
M61F-112	voice icon Connector	Orange	108066242
M61F-123	voice icon Connector	Yellow	108066259
M61F-226	voice icon Connector	Green	108066267
M61F-246	voice icon Connector	Ivory	108066275
M61F-262	voice icon Connector	White	108066283
M61F-270	voice icon Connector	Gray	108066291
M61F-317	voice icon Connector	Red	108066309
M61F-318	voice icon Connector	Blue	108066317
M61H-003	Computer icon, MPSE, DATA	Black	108373515
M61H-112	Computer icon, MPSE, DATA	Orange	108373523
M61H-123	Computer icon, MPSE, DATA	Yellow	108373531
M61H-215	Computer icon, MPSE, DATA	Misty Cream	108481029
M61H-226	Computer icon, MPSE, DATA	Green	108373549
M61H-246	Computer icon, MPSE, DATA	Ivory	108373564
M61H-262	Computer icon, MPSE, DATA	White	108373572
M61H-270	Computer icon, MPSE, DATA	Gray	108373580
M61H-317	Computer icon, MPSE, DATA	Red	108373598
M61H-318	Computer icon, MPSE, DATA	Blue	108373606
M61H-361	Computer icon, MPSE, DATA	Violet	108373614

Flexible Surface Mount Outlet

The M40 Multimedia Information Outlet is a surface-mounted plastic enclosure designed to support a copper/fiber intergrated environment, an all copper environment or an all fiber environment.

The M40 design makes it versatile by utilizing removable panel inserts allowing termination of copper, fiber or composite cables. Panels are available to hold RJ-45, ST, SC and LC adapters.

The M40 outlet comes equipped with one M40RJ4A and one M40ST8 panel. Other panels must be ordered separately.

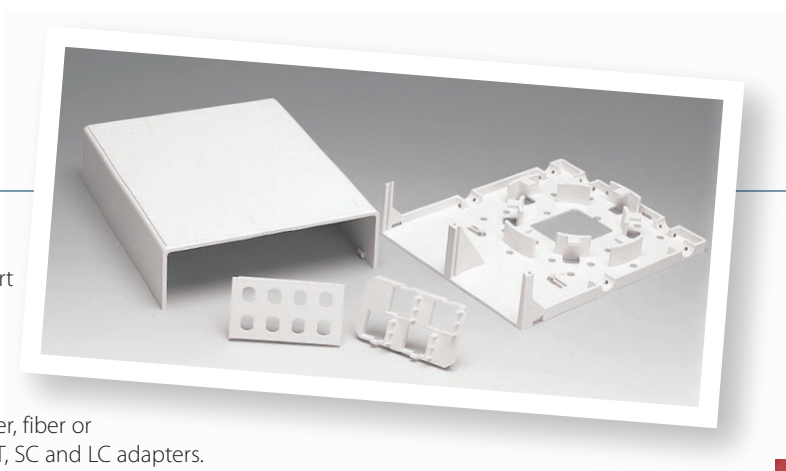
Physical Specifications:

Height: M40A1-B 6.88 in (17.5 cm)

Width: M40A1-B 5.79 in (14.7 cm)

Depth: M40A1-B 1.70 in (4.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic



Faceplates
& Zone
Boxes

Product Number	Detailed Description	Color	Material ID
M40A1-B-262	Basic Outlet w/ M40RJ4A and M40ST8	Electrical White	107992927
M40ST8-B-262	Insert Panel holds 8 ST Couplings	Electrical White	107239485
M40DSC4-B-262	Insert Panel holds 4 Duplex SC Couplings	Electrical White	107239493
M40R-J2-246	Insert Panel holds 4 RJ45 Jacks	Electrical Ivory	106669278
M40RJ4A-262	Insert Panel holds 4 RJ45 Jacks, 4 M81 Mounting Modules	Electrical White	108004268
M40ST4-262	Insert Panel holds 4 ST Couplings	Electrical White	107800658

24-Port Consolidation Point Box

The new low profile M224CPN Consolidation Box is introduced as an enhancement to the zone wiring architecture.

This product provides a connection and distribution point for data and telecom cables in installations requiring a consolidation point. The slim design permits installation in a variety of non-plenum spaces such as under floors, limited space closets, inside paneled furniture, on walls in plain view and on shelves. The box can be mounted, with additional support, to single- or dual-gang electrical type boxes. For best results, the box is mounted on a flat surface, horizontally or vertically. The new M224CPN is substantially smaller than the M36PA (36-Port plenum) box—only 27% of the box volume and 36% of the box area.



The box design utilizes four removable panels that can accommodate a variety of copper and fiber based connectors. Each panel will hold up to six connectors each. The box has a capacity of 24 dual SC connectors, single SC connectors, dual LC connectors, ST connectors, M-Series type copper connectors, S-Video, RCA, BNC and F-type video connectors, or any combination thereof. Connector types can be mixed and matched within the box by using two different panels. The box comes equipped with four 6-port inserts, two blank inserts, 12 dust covers for M-Series outlet holes, closing screws, wire ties, and instructions. The M-Series panel has the most variety in connector options; it accommodates all but the dual SC connectors. Three fiber optic splice organizers are available which will accommodate fusion, mechanical or mass fusion splices. The M224CPN consolidation box is part of the SYSTIMAX SCS family of products.

Features and Benefits:

- Non-metallic housing
- 24-Port capacity
- Accommodates copper M-Series outlets, fiber connectors and copper and fiber terminations
- Can be populated with any M-Series voice, data or video outlet
- Expandable/Stackable features
- Easy access for terminations and moves, adds and changes
- Designed for mounting in various non-plenum environments (i.e., on the floor, under floor tile, surface-mount, wall, furniture, inside cabinets)
- Supports cable/port labeling
- Equipped with removable cover section for cord/label access that does not expose horizontal cables/terminations

Physical Specifications:

Height: 12.14 in (30.8 cm)

Width: 8.45 in (21.5 cm)

Depth: 1.44 in (3.7 cm)

Burn Rating: Non plenum

Product Number	Detailed Description	Color	Material ID
M224CPN	Box Base Cover, 4 M-Series Panels, 2 Blank Panels	Black	700016462
M224CPN	Box Base Cover, 4 M-Series Panels, 2 Blank Panels	Ivory	700016470
M224CPN	Box Base Cover, 4 M-Series Panels, 2 Blank Panels	Gray	700016496
M224CPN	Box Base Cover, 4 M-Series Panels, 2 Blank Panels	White	700016488
M224MSP	Panel Kit Includes 4 M-Series Panels of One Color	Black	700016504
M224MSP	Panel Kit Includes 4 M-Series Panels of One Color	Ivory	700016512
M224MSP	Panel Kit Includes 4 M-Series Panels of One Color	White	700016520
M224MSP	Panel Kit Includes 4 M-Series Panels of One Color	Gray	700016538
M224SCP	Panel Kit Includes 4-Dual SC Panels of One Color	Black	700019482
M224SCP	Panel Kit Includes 4-Dual SC Panels of One Color	Ivory	700019490
M224SCP	Panel Kit Includes 4-Dual SC Panels of One Color	White	700019508
M224SCP	Panel Kit Includes 4-Dual SC Panels of One Color	Gray	700019516
M224FOS	Fiber Optic Spool Kit Includes 2 White Spools	White	700016553

32-Port Zone Wiring Box

The M36CPP Data/Communication Distribution Box is a zone wiring box (i.e. consolidation point [CP]) that provides for the distribution of data and telecommunication signals throughout the work area environment. The box has 36 positions for M-Series copper and/or fiber connectors. It is intended to mount above ceilings or below floors in open office buildings.

The key benefit is that it saves costs in moves, adds and changes (MACs) when zone cabling is required in a plenum environment. The Box is UL Listed to meet the stringent plenum requirements. The National Electric Code allows locating this type of zone box in space used for environmental air.

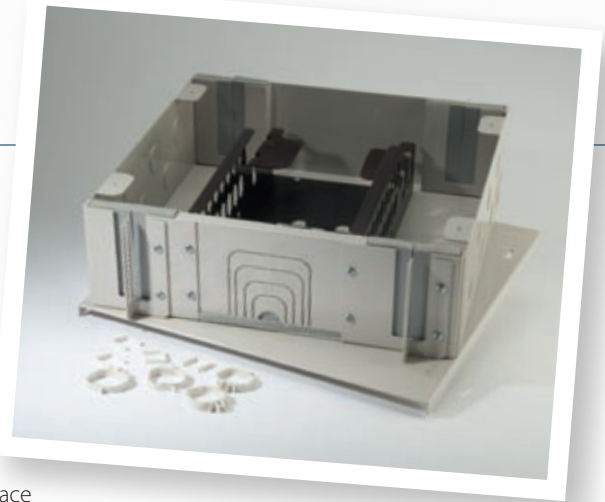
The M36CPP Distribution Box Assembly comes with: connector bracket, plenum cover, plenum box, foam fence, fiber reel (optional to use), foam retainer, bushing (optional to use), fire foam, interconnection label, installation instructions, hex nut (No. 4-40), long pan-head screw (No. 8-32 by 3/38 in [9.5 mm]) and plenum cable tie.

Physical Specifications:

Height: 13.08 in (33.2 cm)

Width: 14.00 in (35.6 cm)

Depth: 4.25 in (10.8 cm)



Faceplates
& Zone
Boxes

Product Number	Detailed Description	Material ID
M32CPP	32-Port Zone Wiring Box	700188931
110C Connecting Block	110C Connecting Block Kit for Plenum Box	760006395

36-Port Zone Wiring Box

The M36CPP Data/Communication Distribution Box is a zone wiring box (i.e. consolidation point [CP]) that provides for the distribution of data and telecommunication signals throughout the work area environment. The box has 36 positions for M-Series copper and/or fiber connectors. It is intended to mount above ceilings or below floors in open office buildings.

The key benefit is that it saves costs in moves, adds and changes (MACs) when zone cabling is required in a plenum environment.

The Box is UL Listed to meet the stringent plenum requirements. The National Electric Code allows locating this type of zone box in space used for environmental air.

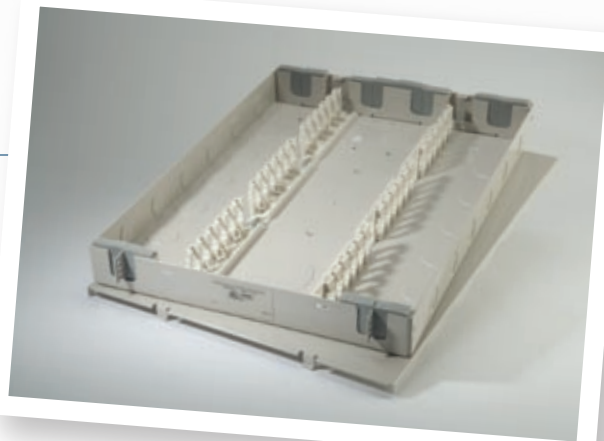
The M36CPP Distribution Box Assembly comes with: connector bracket, plenum cover, plenum box, foam fence, fiber reel (optional to use), foam retainer, bushing (optional to use), fire foam, interconnection label, installation instructions, hex nut (No. 4-40), long pan-head screw (No. 8-32 by 3/38 in [9.5 mm]) and plenum cable tie.

Physical Specifications:

Height: 19.12 in (48.6 cm)

Width: 14.14 in (35.9 cm)

Depth: 1.82 in (4.6 cm)



Product Number	Detailed Description	Material ID
M36CPP DATA	36-Port Zone Wiring Box	108482845

48-Port Zone Wiring Box

The 48-Port Plenum Zone Wiring Box provides a connection and distribution point for data and telecom cables in installations requiring a consolidation point. The design includes a 3.35 in X 2.566 in (85.04 mm X 65.18 mm) rectangular bottom knockout to be used in conjunction with a standard dual-gang electrical box, in addition to twelve 0.75 in (19.05 mm) knockouts for use with conduit.

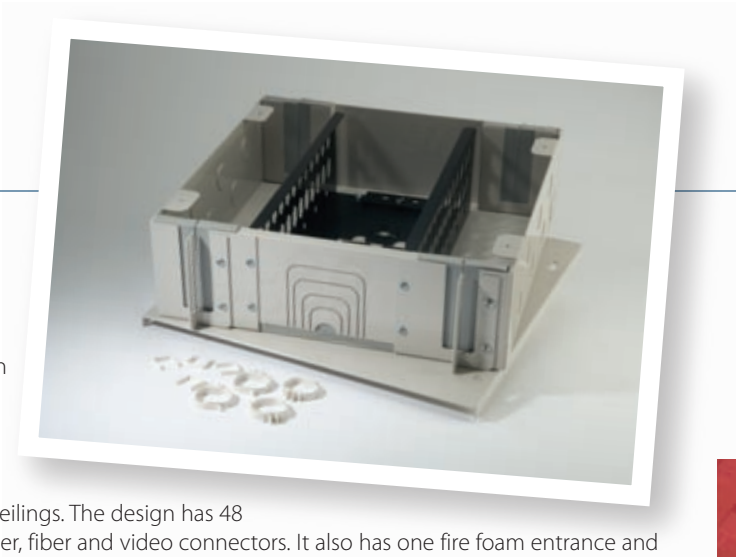
The size of the M48CCP design will allow installation in a variety of plenum spaces such as under floors and above ceilings. The design has 48 positions that accommodate a variety of M-Series type copper, fiber and video connectors. It also has one fire foam entrance and four fire foam exit areas for plenum-rated cable (4-pair and 25-pair).

Features and Benefits:

- 48-port capacity
- Support copper M-Series outlets, fiber connectors, copper and fiber terminations
- Easy access for terminations, moves, adds and changes
- Designed for mounting in various plenum and non-plenum environments (floor, under floor, surface mount or wall)
- Supports cable/port labeling
- Equipped with removable cover section for cord/label access and does not expose horizontal cables

Physical Specifications:

Height: 13.08 in (33.2 cm)
Width: 14.00 in (35.6 cm)
Depth: 4.25 in (10.8 cm)



Faceplates
& Zone
Boxes

Product Number	Detailed Description	Material ID
M48CCP	48-Port Zone Wiring Box	700188923

Surface-Mount Boxes

Single Port

The M101SMB Modular Surface-Mount Box is designed for use with one M-Series modular information outlet (copper or fiber). It can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. This unit will accept 22-26 gauge cable.

Physical Specifications:

Height: 2.26 in (5.7 cm)

Width: 1.22 in (3.1 cm)

Depth: 1.29 in (3.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Color	Material ID
M101SMB-B-003	Black	107983983
M101SMB-B-246	Electrical Ivory	107984007
M101SMB-B-262	Electrical White	107984015
M101SMB-B-270	Electrical Gray	107984023



Dual Port

The M102SMB Modular Surface-Mount Box is a modular surface-mounted duplex box designed for use with one or two M-Series modular information outlets (copper and/or fiber). It can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. This unit will accept 22-26 gauge cable.

Physical Specifications:

Height: 2.26 in (5.7 cm)

Width: 2.06 in (5.2 cm)

Depth: 1.29 in (3.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Color	Material ID
M102SMB-B-003	Black	107984031
M102SMB-B-246	Electrical Ivory	107984049
M102SMB-B-262	Electrical White	107984056
M102SMB-B-270	Electrical Gray	107984064

4-Port

The M104SMB Modular Surface-Mount Box is a modular multimedia surface-mounted quadplex box designed for use with one to four M-Series modular jacks (copper and/or fiber). The M104SMB can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. One mounting magnet kit is required for mounting on steel walls or furniture.

The outlet openings are numbered on both the base and cover for installation and maintenance identification. The M104SMB is packaged with three color-coordinated M20AP Dust Covers/Blanks to cover any unused jacks. This unit will accept 22-26 gauge cable.

Physical Specifications:

Width: 2.83 in (7.2 cm)

Length: 3.92 in (10.0 cm)

Depth: 1.20 in (3.0 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Color	Material ID
M104SMB-A-003	Black	107952475
M104SMB-A-246	Electrical Ivory	107952442
M104SMB-A-262	Electrical White	107952459
M104SMB-A-270	Electrical Gray	107952467

Faceplates
& Zone
Boxes

6-Port

The M106SMB Modular Surface-Mount Box is a modular multimedia surface-mounted sixplex box designed for use with one to six M-Series modular jacks (copper and/or fiber). It is used to terminate 25-pair Category 5 cable at the transition point or to terminate 4-pair wiring in the work location subsystem or to terminate 4 strands of fiber. The M106SMB can be mounted on a flat horizontal surface or on a wall using two mounting screws, double-sided sticky tape or magnets. Four magnet pockets are manufactured within the structure of the M106SMB as holders.

The M106SMB has a storage device/area for storing unterminated copper conductors.

Physical Specifications:

Height: 5.49 in (13.9 cm)

Width: 4.81 in (12.2 cm)

Depth: 1.22 in (3.1 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Product Number	Color	Material ID
M106SMB-003	Black	107431520
M106SMB-246	Electrical Ivory	107431546
M106SMB-262	Electrical White	107431538
M106SMB-270	Electrical Gray	107431553

12-Port

The M112SMB Modular Surface-Mount Box is a 12-Port modular multimedia surface-mounted box designed for use with 12 M-Series modular jacks and/or fiber modules. The M112SMB can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. Four mounting magnets (optional) are required for mounting on steel walls or furniture. The M112SMB is packaged with six color-coordinated M20AP Dust Cover/Blanks to cover any unused jacks. The outlet openings are numbered on both the base and cover for installation and maintenance identification.

Physical Specifications:

Height: 9.13 in (23.2 cm)

Width: 4.81 in (12.2 cm)

Depth: 1.30 in (3.3 cm)

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Mounting: Surface

Product Number	Color	Material ID
M112SMB-003	Black	106658164
M112SMB-246	Electrical Ivory	106658149
M112SMB-262	Electrical White	106658156
M112SMB-270	Electrical Gray	106688419
M112SMB with Metal Cover	Metallic Cover	760031161

Accessories

The SMBFG fiber organizer has a small spindle to protect and support the fiber bend radius and two guides to route the fiber to the connector. It supports up to four fibers in an all-fiber environment in the M106SMB modular surface-mount box and supports up to six fibers in an all-fiber environment in the M112SMB modular surface-mount box.

The 345A mounting magnet contains two magnets and is used with the M104SMB modular surface-mount box.

The 362PS zone wiring kit labels are used with the M106SMB and M112SMB modular surface-mount boxes.

The D180880 mounting magnet kit contains four magnets and is used with the M106SMB and M112SMB modular surface-mount boxes.

Product Number	Detailed Description	Material ID
SMBFG	Fiber Organizer	107431512
345A	Mounting Magnet	106928765
362PS	Zone Wiring Kit Labels	108035049
D180880	Mounting Magnet Kit	103184156

200 Series Surface-Mount Boxes

SYSTIMAX GigaSPEED X10D Standard Surface Mount Boxes are designed for interior surface-mount applications and can support copper and fiber terminations. All information outlets simply snap into place. The 2-, 4-, and 8-port boxes are UL-rated and available in four standard colors.

The 200 series surface mount boxes can support new generation, larger diameter data cables, and offer multiple cable entrances through the base and/or sides.

The 200 series surface mount boxes are equipped with the corresponding number of dust covers and two port adapters. These adapters support two M-series outlets each. A variety of other adapters are available but not included to configure LC, ST and SC fiber couplers, VGA, S-Video, Coax, BNC, and RCA couplers.

Features and Benefits:

- Support a wide range of applications and configurations using the following snap-in components: 8 Position Modular Outlets; S-Video Outlets; VGA Adapters; RCA Adapters; BNC Adapters; Coaxial Couplers
- Can support new generation, larger diameter data cables
- Cable entrances available through the base and/or sides
- Can mount to solid surfaces or single gang electrical boxes
- Easy front access to outlets, adapters and couplers
- Includes dust covers, cable ties, labels/label holders, adhesive backed velcro, double sided tape and screws
- Comes with label and label cover as well as a smooth surface for labeling the front of the enclosure
- Snap-in fiber spool is included to assist with fiber management (does not apply to the M202SMB and M204ASMB)
- Material: Plastic

Applications:

- Consolidation point for zone wiring
- High speed data applications where larger cables are required (10G)
- Multimedia applications using copper, fiber and coaxial
- Utilized on kick plates for modular office furniture
- Plenum version for wireless access points and IP cameras



Faceplates
& Zone
Boxes

Product Number	Detailed Description	Color	Material ID
M202SMB-303	2 Port Surface Mount Box	Black	760057349
M202SMB-262	2-Port Surface-Mount Box	White	760057331
M202SMB-246	2-Port Surface-Mount Box	Ivory	760057356
M202SMB-270	2-Port Surface-Mount Box	White	760057364
M202 Plenum SMB-262	2-Port Surface-Mount Box	White	760067207
M204ASMB-003	4-Port Surface-Mount Box	Black	760057380
M204ASMB-262	4-Port Surface-Mount Box	White	760057372
M204ASMB-246	4-Port Surface-Mount Box	Ivory	760057398
M204ASMB-270	4-Port Surface-Mount Box	White	760057406
M204SMB-003	4-Port Surface-Mount Box	Black	760045005
M204SMB-246	4-Port Surface-Mount Box	Ivory	760045013
M204SMB-262	4-Port Surface-Mount Box	White	760044990
M204SMB-270	4-Port Surface-Mount Box	Gray	760045021
M208SMB-303	8 Port Surface Mount Box	Black	760057422
M208SMB-262	8-Port Surface-Mount Box	White	760057414
M208SMB-246	8-Port Surface-Mount Box	Ivory	760057430
M208SMB-270	8-Port Surface-Mount Box	White	760057448

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Frames &
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Management

Standard Open Racks

The SYSTIMAX Open Rack System is designed for use in telecommunications and equipment rooms for storing telecommunication equipment. Backed by the standard SYSTIMAX SCS 20-Year Warranty when used with the SYSTIMAX end-to-end solution.

The RK100A and RK130A are both 45U rack systems. RK100 has a channel depth of 3 in (7.6 cm) and RK130A has a channel depth of 6 in (15.2 cm). RK130A provides 6 in (15.2 cm) deep upright mounting channels for MDF, IDF and other high capacity distribution frame applications, and is ideally suited for back-to-back VisiPatch installations.



Product Number	Detailed Description	Color	Rack Height	Depth	Equipment Support	Shipping Weight	Material ID
RK100A	Rack 19 in	Black	45U 84 in (213.4 cm)	3 in (7.6 cm)	750 lbs (340 kg)	32 lbs (14.5 kg)	108527441
RK130A	Rack 19 in	Black	45U 84 in (213.4 cm)	6 in (15.2 cm)	750 lbs (340 kg)	38 lbs (17.2 kg)	108867151

Wall Mount Racks

The SYSTIMAX Wall Mount product family includes the standard fixed wall mount equipment rack and the hinged swing gate wall rack. The wall mount equipment rack is designed for applications where floor space for free standing racks or cabinets is not available. It provides a sturdy platform for wall mounted equipment.



Product Number	Detailed Description	Color	Rack Height	Depth	Equipment Support	Shipping Weight	Material ID
RW100A	Fixed Wall Rack, 19 in	Black	21U 38.5 in (97.8 cm)	12 in (30.5 cm)	100 lbs (45.4 kg)	11 lbs (5 kg)	108527466
RW100AS	Hinged Swing Gate Wall Rack, 19 in	Black	21U 38.5 in (97.8 cm)	18 in (45.7 cm)	200 lbs (90.7 kg)	26 lbs (11.8 kg)	760034744
RW200AS	Swinging Wall Rack, 19 in	Black	11U 24.5 in (62.2 cm)	18 in (45.7 cm)	85 lbs (38.6 kg)	28 lbs (12.7 kg)	760045336
RW300AS	Swinging Wall Rack, 19 in	Black	19U 38.5 in (97.8 cm)	18 in (45.7 cm)	85 lbs (38.6 kg)	33 lbs (15 kg)	760045344

Four Post Rack System

The SYSTIMAX Four Post Rack System is a 19 inch EIA system designed for use in telecommunications and equipment rooms for storing telecommunications equipment. The system supports both network and server applications. Built from high strength aluminum and steel, the network application supports up to 2,000 lbs (901.1 kg) and the server application supports up to 1,000 lbs (454.4 kg).



Frames &
Cable
Management

Product Number	Detailed Description	Color	Rack Height	Frame Depth	RMU	Channel	Equipment Support	Shipping Weight	Material ID
RK400A	Network 4 Post Rack	Black	84 in (213.4 cm)	29 in (73.7 cm)	45	Tapped	2,000 lbs (901.1 kg)	65 lbs (29.5 kg)	760045310

Standard Vertical Cable Management

The SYSTIMAX Standard Vertical Cable Management provides a cost-effective, adaptable vertical cable management system for SYSTIMAX open rack system that fits your budget.

The single sided section significantly reduces shipping size and cost to provide maximum value. The double sided unit can be placed back-to-back to align with growth in your network.

Features and Benefits:

- Two-piece design on single sided version reduces the product's shipping size and cost
- One RMU interval cable guide fingers for easy and organized pathway for cables and patch cords; cable guide fingers are made of durable, flame retardant (UL 94 V-0) plastic to withstand wear-and-tear and prevent accidental breakage
- Includes an aluminum, snap-on, hinged cover to easily hide cable for a professional look; the covers swing on hinges to open left or right, allowing quick access to the cable from either direction for easy moves, adds and changes; the cover sits on top of the cable guide fingers to provide additional room for organizing
- Includes rounded acorn nuts for attaching the two section pieces together in order to eliminate sharp edges and reduce the chance of torn cables and injuries
- Mounting hardware provided for easy assembly to the rack, square carriage bolts—instead of standard round bolts allowing tightening of the nuts with just one hand



The GV100SS, 2 in (5.1 cm) diameter, Management Spool is available that supports both fiber and copper cables for use with standard vertical cabling managers.

Product Number	Detailed Description	Color	Rack Height	Depth	Width	Shipping Weight	Material ID
GV100A	Std Vertical CA Mgr, Single Sided	Black	7 ft (213.4 cm)	6.76 in (17.2 cm)	6 in (15.2 cm)	19 lbs (8.6 kg)	108527560
GV100DS	Std Vertical CA Mgr, Double Sided	Black	7 ft (213.4 cm)	13.52 in (34.3 cm)	6 in (15.2 cm)	39 lbs (17.7 kg)	760034892
GV100B	Std Vertical CA Mgr, Single Sided	Black	7 ft (213.4 cm)	6.76 in (17.2 cm)	10 in (25.4 cm)	23 lbs (10.4 kg)	760036640

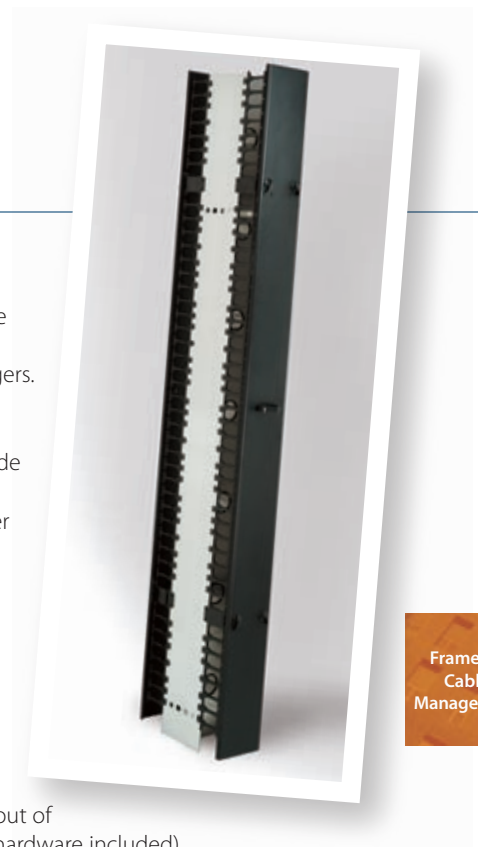
Enhanced Vertical Cable Management

The SYSTIMAX Enhanced Vertical Cable Management provides an attractive and highly functional vertical management pathway for organizing, distributing, storing and concealing communications cable between or adjacent to the SYSTIMAX rack system. Installation is more attractive and allows for easy moves, adds and changes. The one RMU spacing of the cable guides align with the rack spacing, which may eliminate the need for horizontal cable managers. Compliant with ANSI/TIA/EIA installation of Category 5/5e/6/6A and fiber cables.

This Enhanced Vertical Cabling Management includes rigid aluminum latching covers that hide and conceal the cable. Each latching cover includes a handle on the outside of the cover for easy removal and installation. This system also includes an extended capacity option for larger cable management applications.

Features and Benefits:

- Manufactured from a combination of strong, lightweight 5052-H32 aluminum sheet and plenum-rated UL 94 V-O flame resistant composite materials for maximum strength
- Extra-wide, contoured cable guides provide smooth movement and extra strong support
- Edge-protected pass through ports to make it easy to route cable from front to back
- Vertical slots along the center separator for optional cable ties
- Locking latch cover can be easily switched from right to left opening and can be removed so that cable does not have to thread through guides
- The door locks in the closed position to protect cables and provides a clean, finished look
- Black powder coat, wrinkle finish to reduce fingerprints, scratches and smudges
- Factory assembled and ready to install out of the box (Mounting hardware included)
- Provides large cable openings that align with each rack-mount space on the rack providing by-RMU control of patch cords
- Extra capacity models have longer T-shaped “fingers” and larger cable openings that will pass twice as much cable/patch cords as standard cable managers



SYSTIMAX MC100SS Retrofit Management Spool supports both fiber and copper cables for use with any SYSTIMAX vertical cabling sections with 2.5 in (6.4 cm) diameter pass-through holes.

Product Number	Detailed Description	Color	Rack Height	Depth	Width	Shipping Weight	Material ID
MC100B	Enhanced Vertical Cable Manager, Locking Latch Covers, Double Sided	Black	7 ft (213.4 cm)	16.5 in (41.9 cm)	10 in (25.4 cm)	53 lbs (24 kg)	108527351
MC100C	Enhanced Vertical Cable Manager, Locking Latch Covers, Double Sided	Black	7 ft (213.4 cm)	16.5 in (41.9 cm)	8 in (20.3 cm)	54 lbs (24.3 kg)	760055657
MC100D	Enhanced Vertical Cable Manager, Locking Latch Covers, Double Sided	Black	7 ft (213.4 cm)	16.5 in (41.9 cm)	12 in (30.5cm)	68 lbs (30.6 kg)	760055665
MC100AE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity	Black	7 ft (213.4 cm)	21.23 in (53.9 cm)	6 in (15.2 cm)	56 lbs (25.4 kg)	760034850
MC100BE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity	Black	7 ft (213.4 cm)	21.23 in (53.9 cm)	10 in (25.4 cm)	69 lbs (31.3 kg)	760034868
MC100CE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity	Black	7 ft (213.4 cm)	21.23 in (53.9 cm)	12 in (30.5 cm)	75 lbs (34 kg)	760034876
MC100SS	Retrofit Cable Spool, 7 Pack	Black	N/A	N/A	N/A	5 lbs (2.3 kg)	760034900

Product Number	Detailed Description	Color	Rack Height	Depth	Width	Shipping Weight	Material ID
MC110ASE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity, Single Sided, 19 in	Black	7 ft (213.4 cm)	10.6 in (26.9 cm)	6.0 in (15.2 cm)	31 lbs (14.1 kg)	760046995
MC110BSE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity, Single Sided, 19 in	Black	7 ft (213.4 cm)	10.6 in (26.9 cm)	10.0 in (25.4 cm)	40 lbs (18.1 kg)	760047001
8MC100CE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity	Black	8 ft (243.8 cm)	21.23 in (53.9 cm)	12.0 in (30.5 cm)	83 lbs (37.7 kg)	760055673
8MC100BE	Enhanced Vertical Cable Manager, Locking Latch Covers, Extra Capacity	Black	8 ft (243.8 cm)	21.23 in (53.9 cm)	10.0 in (25.4 cm)	76 lbs (34.5 kg)	760055681

Horizontal Cable Management

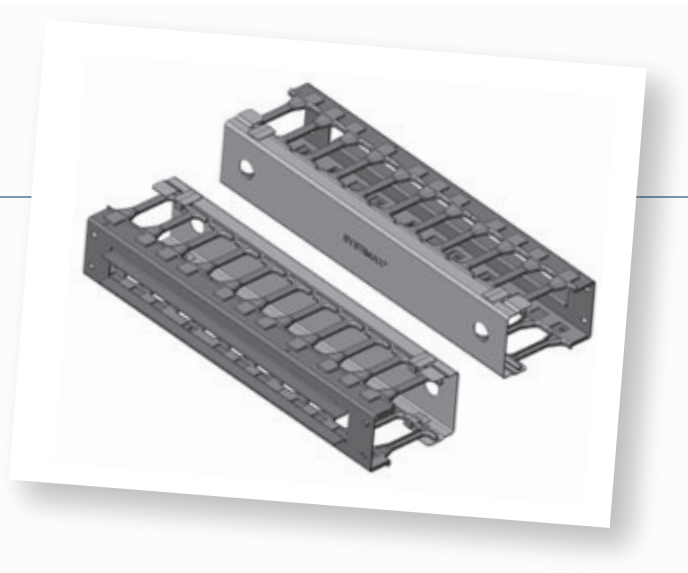
The SYSTIMAX Universal Horizontal Cable Manager and Ring Panel provide an enhanced horizontal pathway for patch cords and multimedia applications using coax, copper and fiber optic cables.

Horizontal Ring Panel

The horizontal ring panel is used to organize horizontal cable runs. The rack mounted ring panel is big enough to handle most cable management jobs.

Features and Benefits:

- Large 6 in (15.2 cm) wide x 2.8 in (7.1 cm) high heavy-duty aluminum rings
- Strong lightweight aluminum construction, black finish
- Rounded edges protect cable sheaths and will not bend during installation
- Rings are bolted onto panels so they can be added or removed
- Pre-assembled with seven equally spaced rings



Frames &
Cable
Management

Horizontal Cable Manager

Extra-wide and contoured cable guides separate and organize patch cords for quick and easy moves, adds and changes. Use above or below patch panels or network switches to route patch cords to exact connection points on the rack.

Features and Benefits:

- Patch cords may also be routed to the back of the rack through the flanged pass-through slot; after routing the cables or cords, simply snap-on the hinged cover for a clean, professional appearance
- Cable guides are offset 1.3 in (3.3 cm) or 2.6 in (6.6 cm) from the front of the rack to ensure proper bending radii of patch cables—even hooded patch cables
- Snap-on cover snaps on at four points
- Black powder coat textured finish, reducing fingerprints and smudges
- Closed trough-style rack-mount cable managers
- T-shaped finger openings at the top and bottom of the trough

Product Number	Detailed Description	Color	Depth	Shipping Weight	Material ID
HC120A	Horizontal Ring Manager, 19 in W x 2U	Black	6 in (15.2 cm)	9 lbs (4.08 kg)	108528795
HCM1U	Horizontal Cable Manager, Single Sided, 19 in W x 1U	Black	5.76 in (14.6 cm)	2 lbs (0.91 kg)	760034793
HCM2U	Horizontal Cable Manager, Single Sided, 19 in W x 2U	Black	5.76 in (14.6 cm)	3 lbs (1.36 kg)	760034801
HCM3U	Horizontal Cable Manager, Single Sided, 19 in W x 3U	Black	5.76 in (14.6 cm)	4 lbs (1.81 kg)	760034819
HCM1UD	Horizontal Cable Manager, Single Sided, Deep Panel, 19 in W x 1U	Black	7.24 in (18.4 cm)	3 lbs (0.91 kg)	760034827
HCM2UD	Horizontal Cable Manager, Single Sided, Deep Panel, 19 in W x 2U	Black	7.24 in (18.4 cm)	4 lbs (1.81 kg)	999901661
HCM1UDS	Horizontal Cable Manager, Double Sided, 19 in W x 1U	Black	11.7 in (29.7 cm)	5 lbs (2.27 kg)	760047019
HCM2UDS	Horizontal Cable Manager, Double Sided, 19 in W x 2U	Black	11.7 in (29.7 cm)	6 lbs (2.7 kg)	760047027

Jumper Trays

The SYSTIMAX Jumper Trays aid in compliance with ANSI/TIA/EIA 568B bend radius requirements. Two styles are available to provide upper and lower horizontal/vertical cable management and to promote a gradual, controlled bend for both UTP and optical fiber cable.

Features and Benefits:

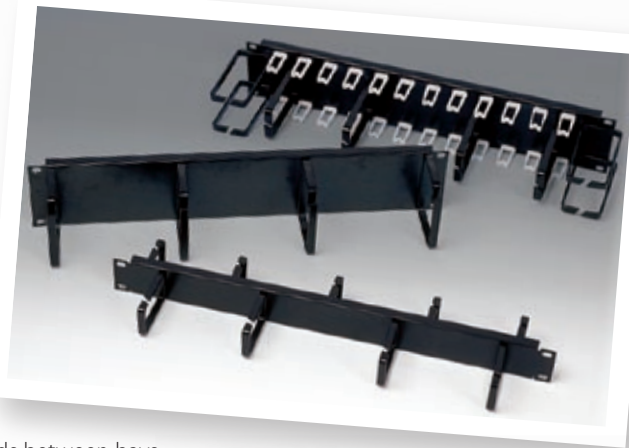
- Provides 1.5 in (3.8 cm) bend radius for compliant installation of Category 5/5e/6/6A cable or fiber
- Telescopes to adjust cable entry or exit position
- Strong lightweight aluminum construction, black finish
- Slotted holes allow bend radius location to be user adjustable
- Mounting screws not included
- Sold individually

Product Number	Detailed Description	Color	Depth	Shipping Weight	Material ID
HC190A	Jumper Tray, Upper, 19 in W x 2U, Single Tray	Black	3.5 in (8.9 cm)	3 lbs (1.4 kg)	108528803
HC190B	Jumper Tray, Upper, 19 in W x 2U	Black	6 in (15.2 cm)	4 lbs (1.8 kg)	760034785
HC200A	Jumper Tray, Lower, 19 in W x 2U, Double Tray	Black	3.5 in (8.9 cm)	5 lbs (2.3 kg)	108528811

1100D Patch Cord Organizer and 1100C Wall Adapter

The 1100D Cord Organizers are used for routing patch cords in 19 inch frames and wall adapters. The 1100D2 is the interbay patch cord organizer which is used for bulk routing cords between bays. The 1100D1 is the intrabay patch cord organizer which provides horizontal and vertical pathways. The 1100D3 is used for routing cords on the front and cable on the rear.

The 1100C wall adapters are used to mount panels on any flat surface. Hinges provide easy access to the rear of the panel without removing the unit. The adapters can be mounted so that it hinges from the right or left side. The snap-lock pin holds the panel in place once the unit is installed.



Product Number	Detailed Description	Material ID
1100C1-35-19	Wall Adapter	106830573
1100C1-70-19	Wall Adapter	106830581
1100D1-35-19	Intrabay Patch Cord Organizer	106830615
1100D2-35-19	Intrabay Patch Cord Organizer	106830623
1100D3-35-19	Interbay Patch Cord and Cable Organizer	107132664

Rack Equipment Shelves

The SYSTIMAX Shelf product family provides single and double sided shelves for miscellaneous equipment and test gear.

Features and Benefits:

- Made of sturdy lightweight 0.090 aluminum construction, black finish
- Holds equipment up to 17.25 in (43.8 cm) wide
- Mounting hardware not included
- Sold individually
- Single sided equipment shelf can be wall mounted

Product Number	Detailed Description	Color	Application	Rack Height	Depth	Equipment Support	Shipping Weight	Material ID
SL100A	Equipment Tray	Black	Used with RK100A or RK130A	5.19 in (13.2 cm)	15 in (13.2 cm)	50 lbs (22.7 kg)	6 lbs (2.7 kg)	108527557
SL110A	Heavy Duty Shelf	Black	Used with RK100A (3 in Deep Rack)	7.16 in (18.2 cm)	20 in (50.8 cm)	200 lbs (90.7 kg)	8 lbs (3.6 kg)	108527565
SL110B	Heavy Duty Shelf	Black	Used with RK130A (6 in Deep Rack)	7.16 in (18.2 cm)	20 in (50.8 cm)	200 lbs (90.7 kg)	10 lbs (4.5 kg)	760034777
RK200A	Heavy Duty Rack Shelf, Solid		Used with 4-Post Rack	3.5 in (8.9 cm)	19 in (48.3 cm)	200 lbs (90.7 kg)	11 lbs (5.0 kg)	760047118
RK200B	Heavy Duty Rack Shelf, Vented		Used with 4-Post Rack	3.5 in (8.9 cm)	19 in (48.3 cm)	200 lbs (90.7 kg)	11 lbs (5.0 kg)	760047126
RK200D	Extra Heavy Duty Sliding Shelf, Solid		Used with 4-Post Rack	3.5 in (8.9 cm)	19 in (48.3 cm)	300 lbs (90.7 kg)	8 lbs (5.0 kg)	760047142

Frames & Cable Management

Rack Installation Kit

The Rack Installation Kit is used for securing equipment rack and frames to a concrete floor.

Product Number	Detailed Description	Color	Shipping Weight	Material ID
RA140A	Rack Anchor Kit, Concrete Floor	Black	1 lbs (0.45 kg)	108527524

Equipment Frame System Accessories

The SYSTIMAX Equipment Frame System Accessories provide support for the various components of the SYSTIMAX rack and cabinet product offer.

- Filler panels fill empty spaces between mounted equipment to give a sturdy aluminum construction
- The #12-24 Combination Pan Head, Pilot Point Mounting Screws attach equipment to racks and cabinets; a cutting notch in the thread removes paint in threaded holes to improve metal-to-metal contact; the pilot point reduces cross-threading. The combination head can be used with #3 Phillips and slotted screw drivers; it has zinc finish
- Touch-Up Paint spray for touching up finish; matches color and gloss of SYSTIMAX's textured paint; Note: This cannot be shipped via air
- Cable Tie, 9 in (22.9 cm), is used to strap together free hanging computer cable for a tangle-free installation

Product Number	Detailed Description	Color	Shipping Weight	Material ID
MS100A	Mounting Screws, Pan-Head, #12-24, 50	Black	1 lbs (0.45 kg)	108527450
MS200A	Mounting Screws, Pan-Head, #12-24, 100	Black	9 lbs (4.1 kg)	108527451
NCTP	Top Panel	Black	60 lbs (27.3 kg)	760065474

Equipment Frame Grounding Solution

The SYSTIMAX Grounding products bond cable runway components and connect equipment frames to the telecommunications ground.

- SYSTIMAX Cable Runway Ground Strap Kits provide a ground pathway between cable runway lengths when fastened together across splices
- The Two Mounting Hole Ground Terminal Block provides a convenient way to attach ground wires to racks or cabinets and meets BICSI and ANSI/TIA/EIA two-hole mounting recommendations. Constructed of extruded, high-strength aluminum and accepts conductors ranging from #14 AWG through 2/0. Includes two #3/8-24 x 7/8 in L stainless steel set screws

Product Number	Detailed Description	Color	Shipping Weight	Material ID
RA100A	Two Mounting Hole Ground Terminal Block	Black	1 lbs (0.45 kg)	108528951

EMEA Cabinets and Accessories

The SYSTIMAX cabling cabinet unique design maximizes the open area available to bring in cables, especially in the two areas most used for cable entry at the rear of the rack and at the sides (top or bottom). The SYSTIMAX cabling cabinet frame design also ensures the cables flow over a smooth surface, which will not damage the data cables. In addition to this functionality, it is supported by the SYSTIMAX SCS 20-Year Warranty.

Features and Benefits:

- Outstanding cable volume
- Multiple cable entry
- Vertical cable channels
- Lightweight, for ease of installation
- Load rated to 500 kg for standard cabling cabinet and 900 kg for server cabinet
- Right/left handed door openings
- Easily removed and refitted cladding
- Future proof—can accommodate both 19 inch and ETSI equipment
- Accessories can easily be added or changed 42U (75SU)
- 2 width options—600 mm and 800 mm
- 2 depth options—800 mm and 1,000 mm (only available in server cabinet)
- Bayed cabinet options available for all versions
- All cabinets include earthing squids (cables and connectors)
- All cabinets include cable tray installed to assist with cable management



Frames & Cable Management

Cabinets-Cabling

Detailed Description	Material ID
47U 800 x 800 mm Cabinet	999902096
47U 800 x 800 mm Baying Cabinet V2	999902098
47U 600 x 800 mm Cabinet V2	999902097
47U 600 x 800 mm Baying Cabinet V2	999902099
42U 800 x 800 mm Cabinet V2	999902092
42U 800 x 800 mm Baying Cabinet Plus Brackets (Comes without side panels) V2	999902094
42U 600 x 800 mm Cabinet V2	999902093
42U 600 x 800 mm Baying Cabinet Plus Brackets (Comes without side panels) V2	999902095
25U 800 x 800 mm Cabinet V2	999902100
25U 600 x 800 mm Cabinet V2	999902101
25U 800 x 800 mm Baying Cabinet V2	999902102
25U 600 x 800 mm Baying Cabinet V2	999902103
12U 400 mm Wallbox + 100 mm Rear Section	999902028
15U 400 mm Rear/100 mm Rear Section	999902029

Cabinets-Server

Detailed Description	Material ID
47U 800 x 1,000 Cabinet V2	999902105
47U 800 x 1,000 Baying Cabinet V2	999902107
47U 600 x 1,000 Cabinet V2	999902104
47U 600 x 1,000 Baying Cabinet V2	999902106
42U 600 x 1,000 Cabinet V2	999902055
42U 600 x 1,000 Baying Cabinet	999902065
42U 800 x 1,000 Cabinet	999902068
42U 800 x 1,000 Baying Cabinet	999902069

Cabinets-Accessories

Detailed Description	Material ID
Standard 800 Deep (566 mm) Chassis Tray Support Angles for 19 in Applications	999902009
Standard 600 Wide (19 in) x 566 mm Deep Vented Chassis Tray	999902010
Standard 600 Wide (19 in) x 625 mm Deep Vented Sliding Shelf Kit, with a Load Rating of 35 kg	999902011
800 Wide x 800 Deep x 100 mm High Unvented Plinth Kit	999902012
600 Wide x 800 Deep x 100 mm High Unvented Plinth Kit	999902013
Wallbox Fan Tray	999902022
Top Mounted Fan Tray c/w 4 of Fans Fitted for Air Extraction	999902003
Standard Castor/Leveller Combination Kit (4 of)	999902002
UK 2 meter Long Fan Tray Lead	999902004
Euro 2 meter Fan Tray Lead	999902076
9 Way UK Power Strip	999902005
9 Way Schuko Power Strip	999902007
5 Way UK Power Strip	999902006
5 Way Schuko Power Strip	999902008
13 Way Plus Switch and Cover Schuko	999902063
Shelve H D Fixed 19 in x 556 Kit	999902082
Shelve H D Sliding 19 in x 630 Kit	999902083
Raft for Cabinet 600 mm Deep	999902086
Raft for Cabinet 800 mm Deep	999902087

Note: Variations on standard product available on request.

Cable Runway System

The SYSTIMAX Cable Runway System provides improved cable organization for easy cable changes. Cable runways prevent tangles and cable damage to maintain quality data transmission.



Frames &
Cable
Management

Product Number	Detailed Description	Runway Width	Color	Shipping Weight	Material ID
CR100A	Cable Runway Straight	12 in (30.5 cm)	Black	25 lbs (11.4 kg)	108528902
CR100B	Cable Runway Straight	18 in (45.7 cm)	Black	29 lbs (13.2 kg)	760034959
CR200A	Cable Runway Bend 90° Outside	12 in (30.5 cm)	Black	4 lbs (1.8 kg)	760036608
CR200B	Cable Runway Bend 90° Outside	18 in (45.7 cm)	Black	9 lbs (4.1 kg)	760036616
CR200C	Cable Runway Bend 90° Inside	12 in (30.5 cm)	Black	4 lbs (1.8 kg)	760042390
CR200D	Cable Runway Bend 90° Inside	18 in (45.7 cm)	Black	9 lbs (4.1 kg)	760042408
CR300A	Cable Runway Curve	12 in (30.5 cm)	Black	12 lbs (5.5 kg)	760036624
CR300B	Cable Runway Curve	18 in (45.7 cm)	Black	19 lbs (8.6 kg)	760036632
CR180A	Wall Angle Support Kit	12 in (30.5 cm)	Black	4 lbs (1.8 kg)	108528696
CR180B	Wall Angle Support Kit	18 in (45.7 cm)	Black	6 lbs (2.7 kg)	760035071
CR190A	Threaded Rod Ceiling Kit, 5/8 in	12 in (30.5 cm) or 18 in (45.7 cm)	Gold	7 lbs (3.2 kg)	108528704
CR220A	Runway End-Bar	12 in (30.5 cm)	Black	6 lbs (2.7 kg)	108867177
CR220B	Runway End-Bar	18 in (45.7 cm)	Black	7 lbs (3.2 kg)	760035048
CR150A	Runway, Butt-Splice Kit	12 in (30.5 cm) or 18 in (45.7 cm)	Black	1 lbs (0.5 kg)	108528647
CR150B	Runway 90-Degree Junction Kit	12 in (30.5 cm) or 18 in (45.7 cm)	Black	1 lbs (0.5 kg)	108528654
CR160B	Runway 90-Degree Splice Kit	12 in (30.5 cm) or 18 in (45.7 cm)	Black	1 lbs (0.5 kg)	108527540
CR100CAP	Protective End Cap	12 in (30.5 cm) or 18 in (45.7 cm)	Black	1 lbs (0.5 kg)	760036673
CR100FT	Cable Runway Foot Kit	12 in (30.5 cm) or 18 in (45.7 cm)	Black	4 lbs (1.8 kg)	760036681
CR170A	Triangular Support Kit	12 in (30.5 cm)	Black	5 lbs (2.3 kg)	108528688
CR170B	Triangular Support Kit	18 in (45.7 cm)	Black	9 lbs (4.1 kg)	760035022
CR100WA	Cable Runway Wall-to-Rack Kit for 3 in (7.6 cm) Channel Rack Use With Racks: RK100A, 8RK110A	12 in (30.5 cm)	Black	32 lbs (14.5 kg)	760034967
CR100WB	Cable Runway Wall-to-Rack Kit for 6 in (15.2 cm) Channel Rack Use With Racks: RK130A	12 in (30.5 cm)	Black	24 lbs (10.9 kg)	760034975
CR221R	Runway Elevation to Rack Kit Used with CR110A, CR110B, CR111A, or CR111B – sold separately	To Rack Kit 2 in (5.1 cm) – 3 in (7.6 cm)	Black	1.5 lbs (0.7 kg)	760035063
CR221C	Runway Elevation to Cabinet Kit	To Cabinet Kit 2 in (5.1 cm) – 3 in (7.6 cm)	Black	2 lbs (0.9 kg)	760035055

Product Number	Detailed Description	Runway Width	Color	Shipping Weight	Material ID
CR110A	Adjustable Rack Mounting Plate for 3 in (7.6 cm) D Rack Used with Racks: RK100A, 8RK110A	12 in (30.5 cm)	Black	5 lbs (2.3 kg)	108528662
CR110B	Adjustable Rack Mounting Plate for 3 in (7.6 cm) D Rack Used with Racks: RK100A, 8RK110A	18 in (45.7 cm)	Black	7 lbs (3.2 kg)	760034983
CR111A	Adjustable Rack Mounting Plate for 6 in (15.2 cm) D Rack Used with Racks: RK130A	12 in (30.5 cm)	Black	5 lbs (2.3 kg)	760034991
CR111B	Adjustable Rack Mounting Plate for 6 in (15.2 cm) D Rack Used with Racks: RK130A	18 in (45.7 cm)	Black	7 lbs (3.2 kg)	760035006
CR120A	Runway Radius Drop	12 in (30.5 cm)	Black		108528910
CR120B	Runway Radius Drop	18 in (45.7 cm)	Black		760035014
CR130A	Runway Radius Drop, Stringer, 5 in (12.7 cm) Long	12 in (30.5 cm) or 18 in (45.7 cm)	Black		108528936
CR100C	Cable Runway Straight	24 in (61 cm)		32 lbs (14.4 kg)	760047902
CR200F	Cable Runway Bend 90° Outside	24 in (61 cm)		6 lbs (2.7 kg)	760048116
CR200E	Cable Runway Bend 90° Inside	24 in (61 cm)		6 lbs (2.7 kg)	760047977
CR400A	Cable Runway Moveable Crossmember	24 in (61 cm)		3 lbs (1.4 kg)	760050880
DRK300A	Universal Cable Runway	24 in (61 cm)		5 lbs (2.3 kg)	760037671
CR170B	Triangular Support Kit	18 in (45.7 cm)		8 lbs (3.6 kg)	760035022
CR170C	Triangular Support Kit	24 in (61 cm)		9 lbs (4.1 kg)	760050914
CR180C	Wall Angle Support Kit	24 in (61 cm)		6 lbs (2.7 kg)	760047951
CR111C	Adjustable Rack-to-Runway Mounting Plate	24 in (61 cm)		5 lbs (2.3 kg)	760050906
CR220C	Runway End Bar	24 in (61 cm)		4 lbs (1.8 kg)	760050922
CRDIV25	Runway Divider, Universal, 25/Pkg			3 lbs (1.4 kg)	760047969
CR170D	Support Bracket, Slip-On			0.4 lbs (0.2 kg)	760047944

Glossary

Glossary

Glossary of Terms

The following glossary offers explanations for a number of terms used in this catalog. It additionally provides explanations for a number of other terms frequently used within the networking and cabling industries.

10BASE-T

10 Mbps Ethernet using 2-pairs of Category 3 cable.

100BASE-T4

100 Mbps Fast Ethernet using 4-pairs of Category 3 cable.

100BASE-TX

100 Mbps Fast Ethernet using 2-pairs of Category 5 cable.

100VG-AnyLAN

100 Mbps LAN using Demand Priority Protocol originally developed by Hewlett Packard and AT&T for Category 3 cable.

1000BASE-T

1000 Mbps (1 Gbps) Ethernet using 4-pairs of Category 5e cable.

1000BASE-TX

A low cost alternative to 1000BASE-T developed by TIA for Category 6 cabling.

1000BASE-SX

1000 Mbps (1 Gbps) Ethernet operating on multimode fiber with short wave lasers (850 nm).

1000BASE-LX

1000 Mbps (1 Gbps) Ethernet operating on multimode fiber with long wave lasers (1300 nm).

10GBASE-T

10 Gbps Ethernet using 4-pairs of Category 6 or better cabling.

10GBASE-LR

10 Gigabit Ethernet operating at long wavelength (1300 nm) on singlemode optical fiber. 10GBASE-LR is the LAN version, 10GBASE-LW is the WAN version. Up to 10 Km reach.

10GBASE-LX4

10 Gigabit Ethernet operating at long wavelength (1300 nm) on multimode or singlemode optical fiber. Designed to overcome the imperfections of legacy multimode fiber, by utilizing 4 lasers and 4 detectors operating at different wavelengths. Up to 300 m reach on multimode, 10 Km on singlemode.

10GBASE-SR

10 Gigabit Ethernet operating at short wavelength (850 nm) on laser optimized (OM3) multimode fiber. The lowest cost transceiver alternative, taking advantage of the advances in multimode fiber technology that eliminate the imperfections

of legacy multimode. Up to 300 m reach on laser optimized (OM3) multimode fiber (up to 550 m supported on enhanced OM3 fiber).

Ad hoc cabling

Cabling scheme where different types of cabling components from different vendors are linked together to form a cabling system.

Alien Crosstalk

Signal coupling between adjacent cabling components (cables, connectors) or between adjacent links or channels.

Analogue transmission

A method of signal transmission in which the shape of the signal is a continuously variable and directly measurable physical quantity such as voltage.

Application

A system, with its associated transmission method which is supported by telecommunications cabling.

Application layer

The uppermost layer (layer 7) of the open systems interconnection (OSI) model. This layer is concerned with support to the user application and is responsible for managing the communication between applications, e.g. Email, File transfer, etc.

ASCII

The American Standard Code for Information Interchange. A widely-used 7 or 8 bit binary code used to represent alphabetic and numeric characters in computer understandable form.

Asynchronous

Two or more signals sourced from independent clocks, therefore having different frequency and phase relations.

Asynchronous data transfer

A method of data transfer in which each alphabetic or numeric character (represented by 7 or 8 bits) is preceded by 'start' and 'stop' bits to delineate the 7/8 bit pattern from the ideal pattern which otherwise occupies the (digital) transmission medium.

Asynchronous transfer mode (ATM)

A high-speed cell-based switching and multiplexing technology based on segmentation of voice, data and video into fixed packets (cells). These cells are transferred along switched paths and are not received on a regular basis (hence the term asynchronous).

Attenuation

The effect of signal dwindling, experienced with accumulating line length or distance of radio transmission.

Backbone(s)

The part of a premises distribution system that includes a main cable route and facilities for supporting the cable from the equipment room to the upper floors, or along the same floor to the wiring closets.

Balanced circuit

A circuit where equal and opposite signals are generated and sent on to two conductors. The better the balance of a circuit, the lesser its emissions and the greater is its noise immunity (hence the better is its EMC performance).

Balanced twisted pair cable

A cable consisting of one or more metallic symmetrical cable elements (twisted pairs or quads).

Balun

An adapter used to convert balanced to unbalanced signals in order to connect legacy equipment or video devices to structured cabling.

Bandwidth

The range of frequencies that can be used for transmitting information on a channel. It indicates the transmission-carrying capacity of a channel. Thus, the larger the bandwidth, the greater the amount of information that can pass through the circuit. Measured in hertz or bits per second or MHz-Km (for fiber).

Bit error rate (BER)

A measure of quality of a digital transmission line, either quoted as a percentage, or more usually as a ratio, typically 1 error in 10E8 or 10E9 bits carried. The lower the number of errors, the better the quality of the line.

Bridge(s)

A device used to link two subnetworks using the same communications method and sometimes the same kind of transmission medium.

Building backbone cable

A cable that connects the building distributor to a floor distributor. Building backbone cables may also connect floor distributors in the same building.

Building distributor

A distributor in which the building backbone cable(s) terminate(s) and at which connections to the campus backbone cable(s) may be made.

Building entrance facility

A facility that provides all necessary mechanical facility and electrical services, that complies with all relevant regulations, for the entry of telecommunications cables into a building.

BUS

Consists of a common transmission path with a number of nodes attached to it. Sometimes referred to as linear network topology.

Cable fill

The ratio of cable installed into a conduit/trunking against the theoretical maximum capacity of the conduit/trunking.

Cable routing diagram

A detailed drawing showing the layout of the cable routes.

Cabling

A system of telecommunications cables, cords and connecting hardware that can support the connection of information technology equipment.

Campus

A premises containing more than one building adjacent or near to one another.

Campus backbone cabling

A cable that connects the campus distributor to the building backbone distributor(s). Campus backbone cables may also connect building cabling distributors directly.

Carrier sense multiple access/collision (CSMA/CD)

Network access method in which nodes contend for the right to send data. If two or more nodes attempt to transmit at the same time, they abort their transmission until a random time period of microseconds has transpired and then attempt to resend.

Category 3

Industry standard for cable and connecting hardware products with transmission characteristics specified to 16 MHz, designed to support digital transmission of 10 Mbps.

Category 5

Industry standard for cable and connecting hardware products with transmission characteristics specified to 100 MHz, designed to support digital transmission of 100 Mbps.

Category 5e

Enhanced Category 5 specifications for cable and connecting hardware products with transmission characteristics specified to 100 MHz, intended to support digital transmission of 1000 Mbps.

Category 6

Industry standard for cable and connecting hardware products with transmission characteristics specified to 250 MHz, designed to support digital transmission in excess of 1000 Mbps.

Category 6A

Specification currently in draft to become an industry standard for cable and connecting hardware products with transmission characteristics specified to 500 MHz, designed to support digital transmission of 10 Gbps.

Category 7

Industry standard for cable and connecting hardware products with transmission characteristics specified to 600 MHz, and requiring individually shielded pair cables. May require either a switched RJ-45 or a non-RJ-45 connector.

Ceiling distribution

Distribution system that uses the space between the false or suspended ceiling and the structural ceiling for housing horizontal cable routes.

Cell relay

A fast packet switching technique which uses fixed-length cells. Generic name for ATM, SMDS and BISDN.

CENELEC

European committee for electrotechnical standardization.

CENELEC EN50173

The European standard for generic cabling for customer premises.

CENELEC EN50174

A proposed European cabling systems planning & installation standard being developed by CENELEC.

Channel

The end-to-end transmission path connecting any two pieces of application-specific equipment. Equipment cables and work area cables are included in the channel.

Churn

The relocation of an individual or a group of individuals within a building such that the workspace or services to the workspace require change.

Client/server

A technique by which processing can be distributed between nodes requesting information (clients) and those maintaining data (servers).

Coaxial Cable (COAX)

A cable with a center conductor surrounded by a thick insulation, surrounded by an outer conductor made of metal braid. An outer jacket insulation is optional.

Collapsed backbone

This architecture is a backbone topology where wiring concentrators located at floor levels are attached in a star configuration to a central high performance switching concentrator.

Consolidation point

An interconnection point in horizontal cabling, typically used to support the re-arrangement of furniture cloisters.

Cords

A short length of copper wire or fiber optic cable with connectors on each end. Used to connect equipment to cabling, or to connect cabling segments (cross-connection).

Cross-connect

A facility enabling the termination of cable elements and their connection, primarily by means of patch cords or jumpers.

Crosstalk

An electromagnetic coupling between two physically isolated circuits in a system. This coupling causes a signal on one circuit to induce a noise voltage on adjacent circuits, thereby causing signal interference.

CSMA/CD

See Carrier Sense Multiple Access/Collision Detect.

Customer premises equipment (CPE)

Customer owned equipment used to terminate or process information from the public network (i.e. Multiplexer or PABX).

Data circuit terminating equipment (DCE)

The equipment terminating and controlling the transmission line, and often marking the end point of the public data network. Data terminal equipment's (DTEs) such as computers are connected directly to DCE.

Data terminating equipment (DTE)

The term used to describe any type of computer or other equipment, when connected to a data communications network.

Datalink layer

Layer 2 of the OSI model. This layer is responsible for error free transmission of bits on a physical interface. Also known as the link layer. The best known layer 2 protocol is HDLC (High Level Data Link Control).

Decibel (dB)

A unit used to measure relative increase or decrease in power, voltage or current, using a logarithmic scale.

Digital transmission

A technique in which all information is converted into binary digits for transmission.

Distributor

The term used for the functions of a collection of components (i.e. patch panels, patch cords) used to connect cables.

EIA/TIA

North American Standards organization.

EIA/TIA 568B

North American commercial building telecommunications wiring standard.

EIA/TIA 569A

North American commercial building standard for telecommunications pathways and spaces. Its purpose is to standardize specific design and construction practices within and between buildings which are in support of telecommunications media and equipment.

EIA/TIA 606

North American administration standard for the telecommunications infrastructure of commercial buildings. Its purpose is to provide guidelines for a uniform administration scheme for the cabling infrastructure.

Electromagnetic compatibility (EMC)

The ability of a system, equipment or device to operate satisfactorily in its environment without introducing unacceptable electromagnetic disturbance, or being affected by that environment.

Electromagnetic flux

Electric and magnetic fields (commonly referred to as emissions) generated by equipment or system.

Electromagnetic interference (EMI)

The interference in signal transmission or reception caused by the radiation of electric and magnetic fields.

Equipment cable

A cable connecting equipment to a distributor.

Equipment room

A room dedicated for housing distributors and application-specific equipment.

Ethernet

A LAN originally developed by DEC, Xerox and Intel. It uses the CSMA/CD protocol.

Fast Ethernet

A 100 Mbps LAN based on CSMA/CD protocol. See 100BASE-T.

Fiber

See Optical Fiber.

Fiber channel

This is an ANSI standard describing point to point and switched point to point physical interface, transmission protocol, signalling protocol, services and command set mapping of a high performance serial link for uses between mainframe computers and computer peripherals.

Fiber distributed data interface (FDDI)

An American National Standards Institute standard for fiber-based token passing access protocol that operates at a 100 Mbps data transfer rate.

Flood wiring

The concept of wiring for future growth, by providing full coverage of information outlets.

Flood distributor

The distributor used to connect between the horizontal cable and other cabling subsystems or equipment (see telecommunications closet).

Foil screened twisted pair cable (FTP)

A cable that uses a metallic foil to surround the conductors in a twisted pair cable.

Full duplex

Simultaneous two-way communication on the same link or cabling channel.

Full duplex Ethernet

Full duplex Ethernet allows nodes to transmit and receive data at the same time, doubling throughput between workstation and switch.

Generic cabling

A structured telecommunications cabling system, capable of supporting a wide range of applications. Generic cabling can be installed without prior knowledge of the required applications. Application-specific hardware is not a part of generic cabling.

Grid Computing

Grid computing makes spare CPU horsepower available across the network to large jobs that require it, by harnessing the capabilities of dispersed devices across the network.

Half duplex

Two-way transmission on a single link or cabling channel, one direction at a time.

Horizontal cable

A cable connecting the floor distributor to the telecommunications outlet(s).

Horizontal runs

See horizontal subsystem.

Horizontal subsystem

The part of the premises distribution system installed on one floor that includes the cabling and distribution components connecting the riser backbone or equipment wiring to the information outlet.

Hub

A concentrator or repeater in a star topology at which node connections meet.

Hybrid cable

An assembly of two or more different types of cable units, cables or categories covered by an overall sheath. It may be covered by an overall shield.

IEC 60332

The international standard covering fire performance of cables.

IEEE

Institute of Electrical and Electronic Engineers in the USA. This organization is also involved in producing Local Area Network standards such as Ethernet.

Individual pair screened

Where each twisted pair in one overall cable has its own screen.

InfiniBand™ architecture

A high bandwidth switched network topology currently being developed for Storage Area Networks (SANs).

Integrated services digital network (ISDN)

Integrated voice and data network based on digital communications technology and standards interfaces.

Intelligent buildings

Buildings that maximize the efficiency of its occupants and allow effective management of resources with minimum life-time costs (Source: European Intelligent Building Group).

Interconnect

A location at which equipment cables are terminated and interconnected to the cabling subsystems without using a patch cord or jumper.

Interface cards

See Network Interface Cards.

Interference

A signal impairment caused by the interaction of another unwanted signal.

ISO

International Standards Organization.

ISO seven layer model

A 7 layer hierarchical reference structure model developed by the ISO for defining, specifying and relating communications protocol.

ISO/IEC IS 11801

The international standard for generic cabling for customer premises.

ISO/IEC 14763-1

The international standard for basic administration of generic cabling.

Jumper

A cable unit or cable element without connectors used to make a connection on a cross-connect.

Keying

A mechanical feature of a connector system which guarantees correct orientation of a connection or prevents the connection to a jack or optical fiber adapter of the same type intended for another purpose.

Permanent link

The transmission path between two mated interfaces of generic cabling, excluding equipment cables, work area cables and cross-connections.

Local area network(s) (LANs)

A LAN allows users to share information and computer resources. Typically, a local area network is limited to a single building.

Multimedia

A means of conveying information with components in different media such as voice, music, text, graphics, image and video.

Multimode fiber

Optical fibers that have a large core and that permit non-axial rays or modes to propagate through the core.

Network architecture

Network topology and design.

Network interface cards (NICs)

The piece of equipment that is installed into the expansion port of a personal computer and allows communication between the PC and the network.

Network layer

The network layer is layer 3 of the OSI model. This layer sets up an end-to-end connection across a network determining which permutation of individual links to be used. Thus the network layer performs overall routing functions.

Node(s)

A piece of communications equipment on the network.

Noise

The term used for spurious signals produced in a conductor by sources other than the transmitter to which it is connected. Noise can affect a legitimate signal to the extent that it is inaccurate or indecipherable when it reaches the receiver. The higher the speed of data transmission, the worse the effects of noise become.

Open system interconnection (OSI)

A conceptual model specified by CCITT recommendations in the X200 series. The model describes the 7-layer process of communication between co-operating computers. The model provides a standard for the development of communication protocols allowing for computers of different manufacturers to be interconnected.

Optical fiber

A transmission medium consisting of a core of glass or plastic surrounded by a protective cladding. Signals are transmitted as light pulses, introduced into the fiber by a light transmitter (i.e. Laser or an LED).

Outlets

A term used to describe the sockets provided in the work location of a structured cabling system. These are usually 8-pin modular sockets which can support a variety of services (i.e. voice, video and data).

PABX

Private Automatic Branch Exchange. A private switching system that switches calls both internally within a building or premises and outside to the telephone network.

Packet switching

A type of exchange or network which conveys a string of information from origin to destination by cutting it up into a number of packets and carrying each independently. A packet-switched effect could be achieved by sending individual pages of a book through the post separately. The receiving device re-assembles the message. Thus a direct connection between origin and destination does not exist at any point.

Patch cord(s)

Flexible cable unit or element with connector(s), used to establish connections on a patch panel.

Patch panel(s)

Termination and administration hardware designed to accommodate the use of patch cords. It facilitates administration for moves and changes.

Pathway(s)

Designated cable routes and/or support structures in a false floor or ceiling.

Peripheral(s)

Additions to a system, a resource (i.e. printer, scanner, etc).

Physical layer

Layer 1 of the open systems interconnection (OSI) model. The physical layer protocol is the hardware and software in the line terminating device which converts the databits needed by the datalink layer into the electrical pulses, modem tones, optical signals or other means which will transmit the data.

Physical topology

Physical cabling layout (i.e. ring, bus, star wired etc).

Ports

A computer interface capable of transmitting and or receiving information.

PowerSum

A method of testing and measuring crosstalk in multi-pair cables that accounts for the sum of crosstalk affecting a pair when all other pairs are active. This is the only method of specifying crosstalk performance that is suited to cables with more than four pairs.

Presentation

Layer 6 of the OSI model. Responsible for identifying the syntax of layer the data being transmitted.

Proprietary networks

Networks that are not designed or installed to standard based guidelines and do not relate specifically to any relevant standard.

Proprietary

Systems that are not standards specific and therefore are not interoperable with standards based equipment.

Protocol(s)

A rule of procedure by which computer devices intercommunicate. Thus a protocol is the equivalent of a human language, with punctuation and grammatical rules.

Public network interface

A point of demarcation between public and private network. In many cases the public network interface is the point of connection between the network provider's facilities and the customer premises cabling.

Raceway

Any distribution method designed for holding cables, (i.e. conduit, metal or plastic trunking, cable trays, etc).

Redundancy risers

A fail-safe method of splitting and routing riser/backbone cables via two or more riser cores. Also known as diverse routing.

Ring

A closed loop network topology.

Riser(s)

The term used to describe a space utilized by backbone cabling to house communications cabling and other building services. This space should preferably be specified, or allowed for, at the time of the building design.

Router(s)

An intermediate system between two or more networks capable of forwarding data packets at the network layer (layer 3).

Scaleable

The ability to adapt to different bit rates.

Screened cable

See foil screened twisted pair cable.

Serial communications

See serial data transmission.

Serial data transmission

Data transmission between computer devices using only a single circuit path. Whole bytes of information (8 bits) are sent in sequential pattern. Compares with parallel transmission. Parallel transmission is often used internally within computing devices because of the higher processing speeds which are possible, but for long-distance telecommunication, serial transmission is more economic in terms of line plant.

Serial port(s)/transmission

Normally a DB 9-pin connector located on the mother board of a PC. A technique in which each bit of information is sent sequentially on a single channel.

Server(s)

Host computer(s).

Session layer

Layer 5 of the OSI model. Responsible for establishment and control of dialogues between users on different machines. Synchronization for reliable data transfer and token management to control use of the connection are services provided by this layer.

Shielded twisted pair cable (STP)

An electrically conducting cable comprising one or more elements each of which is individually shielded. There may be an overall shield in which case the cable is referred to as a shielded twisted pair cable with an overall shield.

Signal to noise ratio (SNR)

The ratio of the signal magnitude to the noise magnitude and is usually expressed in dB. The higher the SNR of a system, the better is its performance.

Simplex

A transmission means allowing only one direction of transmission. (i.e. public broadcast radio.)

Singlemode

Optical fiber with a small core diameter in which only singlemode is capable of propagation. 8.3 micron is the common standard core size.

Splice

A joining of conductors or fibers, generally from separate cables.

Star

A physical point to point network topology.

Star physical topology

See Star.

Star quad

A cable element which comprises four insulated conductors twisted together. Two diametrically facing conductors form a transmission pair.

Star topology

See Star.

Storage Area Network (SAN)

A high speed network or subnetwork of shared storage devices.

STP

See shielded twisted pair cable.

Structured cabling

Flexible cabling scheme which allows rapid reconfiguration for office moves through patching.

Switching

A function carried out by a switching hub, alleviating traffic by making virtual connections between transmitting and receiving nodes.

Synchronization

The method by which the bit patterns appearing on digital line systems may be properly clocked and interpreted - allowing the beginning of particular patterns and frame formats to be correctly identified.

Synchronous

Signals that are sourced from the same timing reference and hence are identical in frequency.

Synchronous data transfer

Data transfer employing synchronized transmit and receive clocks, rather than using start and stop bits to distinguish character patterns from idle line operation.

SYSTIMAX SCS

Brand name of SYSTIMAX Solutions structured cabling system.

Telecommunications

A branch of technology concerned with the transmission, emission and reception of signs, signals, writing, images and sounds; that is, information of any nature by cable, radio, optical or other electromagnetic systems.

Telecommunications closet

An enclosed space for housing telecommunications equipment, cable terminations, and cross-connect cabling. The telecommunications closet is a recognized cross-connect point between the backbone and horizontal cabling subsystems.

Telecommunications outlet

A socket where the horizontal cable terminates. The telecommunications outlet provides the interface to the work area cabling.

Thick coax

The transmission medium used for Ethernet or IEEE 802.3 10BASE-2 LANs. It is a 50 ohm thick coax cable (commonly referred to as the thick yellow cable).

Token ring

The transmission medium used for IEEE 802.3 10BASE-2 LANs (sometimes referred to as CheaperNet). It is a 50 ohm thin coax cable.

Token ring LAN

A 4 or 16 Mbps LAN standard based on token passing access protocol originally developed by IBM. Sometimes referred to as IEEE 802.5 or ISO 8802-5 standard.

Topology

The physical or logical configuration of a telecommunications system.

TP-PMD

Twisted Pair Physical Medium Dependant. A twisted pair version of the FDDI standard that allows 100 Mbps transmission over Category 5 copper cable.

Transducer

A sensing device that converts a signal from one form to another (i.e. mechanical to electrical).

Transport layer

Layer 4 of the OSI model. The transport layer provides for end-to-end data relaying service across any type of data network and is responsible for end-to-end reliability.

Twinaxial cable (TWINAX)

Twinaxial cable is similar to coax except that the center of the cable contains a twisted pair rather than a single conductor.

Twisted pair(s)

A cable element which consists of two insulated conductors twisted together in a determined fashion to form a balanced transmission line.

Unshielded twisted pair cable

An electrically conducting cable comprising one or more pairs none of which is shielded.

UTP

See unshielded twisted pair cable.

VCSEL

Vertical Cavity Surface Emitting Laser

Video conferencing

Real time communications via video between two or more users at separate locations.

Wide area networks (WANS)

Networks that are linked across a large geographical area generally using leased lines from a public operator.

Wireless LAN

Local area network that communicates using radio technology.

Work area

A building space where the occupants interact with telecommunications terminal equipment. A user's work area which is typically 9 sq. meter or 100 sq. ft.

Work area cable

A cable connecting the telecommunications outlet to the terminal equipment.

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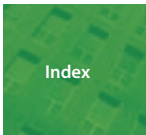
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