BELDEN
SENDING ALL THE RIGHT SIGNALS®

Belden® Optical Fiber Catalog

Belden Fiber*Express*®
Systems, Cable and
Connectivity

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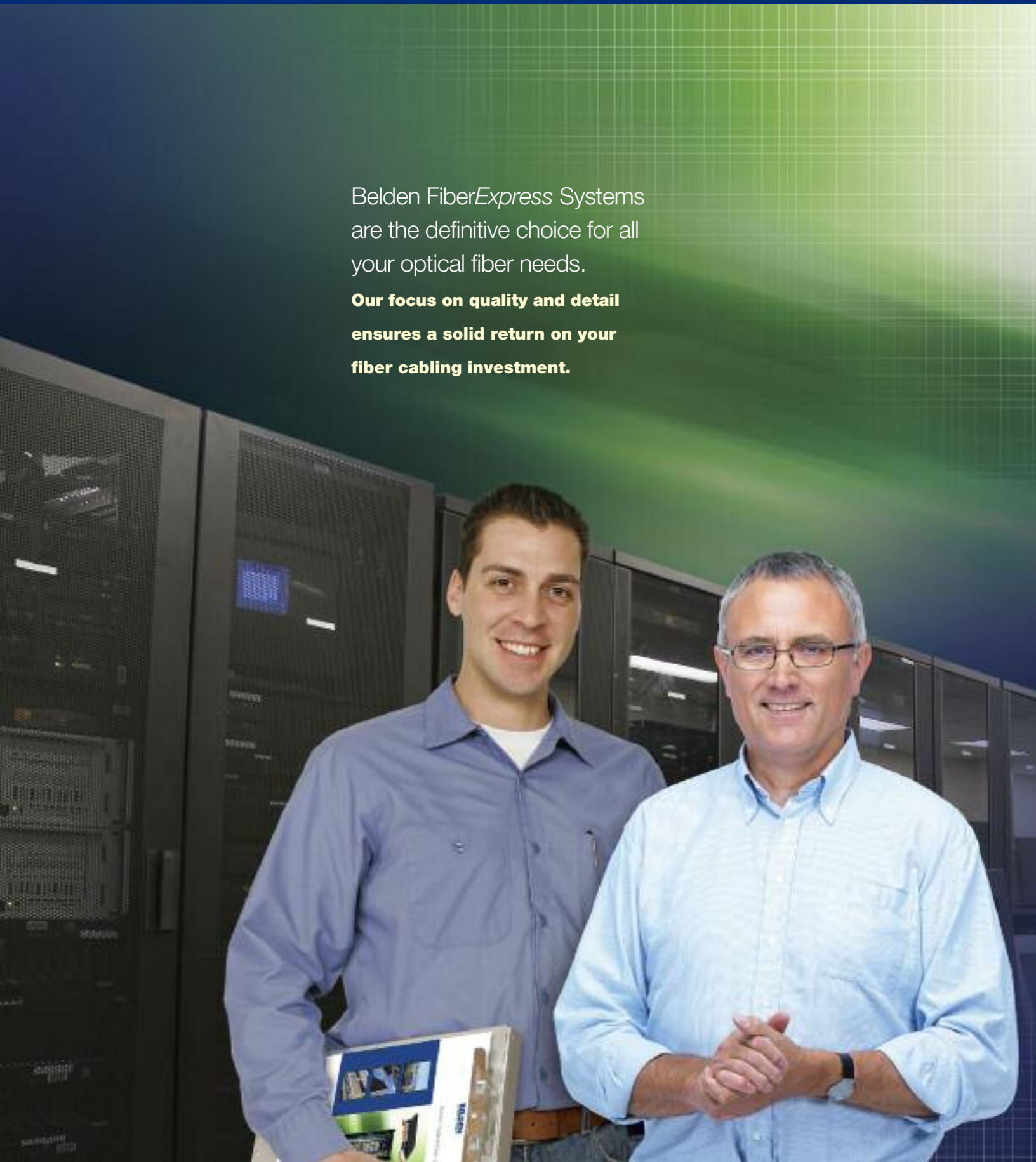
Belden Fiber*Express* Systems are the definitive choice for all your optical fiber needs.

Our focus on quality and detail ensures a solid return on your fiber cabling investment.



Preparing for the Future with Belden Fiber*Express* Solutions

Belden has been involved in the development of optical fiber components since 1972 — evolving to its present status as an international supplier of high quality, cost-effective optical fiber cabling systems.

The Fiber*Express* Solution is the culmination of Belden's experience in the optical fiber arena, offering users a complete, high-performance, end-to-end cabling system that supports both centralized and fiber-to-the desk (FTTD) topologies, as well as in-building or campus backbone cabling configurations.

The Fiber*Express* Solution is, however, much more than an assemblage of top-performing products. It represents a complete approach to the methodology of fiber optic cabling, i.e., Fiber*Express* systems are unique in their ability to offer both superior performance and a more cost effective, speedier and less complex installation process than traditional fiber optic cabling systems.

Belden developed the Fiber*Express* Solution to assure the smooth operation of your network and to provide for efficient network management — while continually reducing your total cost of ownership and preparing your system for the future.

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Offering Three Outstanding, Cost Effective Solutions

Fiber*Express* solutions are for fiber-to-the-desk or centralized cabling applications and the backbone infrastructure. Fiber*Express* Pre-Terminated systems are the ultimate solution for quick, easy, and reliable installations.

Fiber*Express* Solutions consist of a full range of multimode and single-mode cables, connectivity hardware, patch cords, cable assemblies, field connectors and a number of work area outlets. These solutions are characterized as fiber-to-the-desk systems, pre-terminated systems and in-building or campus backbone systems.

Fiber*Express* Pre-terminated Systems

The ultimate in quick, easy and reliable optical networking is the Fiber*Express* Pre-term System. All components are factory connectorized and fully tested to ensure fast deployment and tremendous reliability. This flexible solution can be deployed for traditional LAN systems, as well as in specialized applications such as Data Centers and Storage Area Networks.

The Fiber*Express* Pre-term System is also well-suited for temporary situations, such as disaster recovery installations or convention center services.

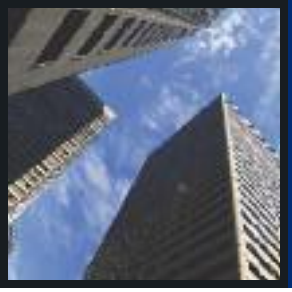
Fiber*Express* Backbone Systems

In today's environment, cabling network backbones are typically designed using a combination of both multimode and single-mode fiber cables. Configuring the right fiber backbone for your unique premise or campus application is a complex process. An inadequate or improperly installed network backbone can severely limit overall network performance and, therefore, your business's productivity and efficiency. Fortunately, selecting the right fiber backbone cabling solution is comparatively easy when you specify Belden Fiber*Express* Systems.

Many factors will influence the design of your specific optical fiber backbone infrastructure and the appropriate mix of single-mode and multimode fiber products and technologies.

Fiber*Express* Fiber-to-the-desk (FTTD) Systems

Whether for horizontal distribution or centralized cabling, Fiber*Express* solutions include a wide range of products such as work area outlets and large-capacity fiber management products designed to make FTTD applications a cost effective reality.



Key Design Criteria

Capacity and Topology Planning

Deployed Belden Horizontal UTP Systems
The role of the network backbone is to support the deployed or planned horizontal cabling system. Higher bandwidth horizontal systems, such as Belden's IBDN® System 10GX® or 4800, may indicate use of single-mode fiber in the backbone for superior overall network performance.

Horizontal to Backbone Data Rate Ratio
Traditional design guidelines use a 1:10 data rate ratio; indicating, for example, that when 1 Gb/s applications such as 1000BASE-T Ethernet are operating across the horizontal, the backbone should be capable of supporting throughputs of 10 Gb/s or more.

Distances and Topologies
The effective capacities of single-mode and multimode fiber channels have distance limitations. Generally speaking, single-mode fiber channels can operate at greater speeds over greater distances than multimode fiber channels. Distance considerations will be important criteria in campus or MAN backbone design, and must also be considered for in-building backbones and "centralized fiber network" topologies.

Return on Investment

Legacy Networks and Active Equipment
We seldom have the luxury of designing and deploying networks with a "clean slate" and accommodating existing cabling infrastructures and active equipment must be factored into backbone design considerations and may affect the single-mode/multimode mix.

Cost of Ownership
At first glance, fiber channels are typically more expensive than UTP channels; while single-mode fiber channels are typically more expensive than multimode channels. But, cost must always be considered in the context of performance, features and benefits — and ultimately in terms of "value."

Future-proofing
Cabling infrastructure design must consider not just current requirements, but also future growth, capacity and new applications. The same is true with fiber backbone planning and design. A marginal increase in investment today can extend the operational lifespan of your backbone, thereby increasing the return on your backbone networking investment.

Fiber Channel Topology					
Belden Fiber*Express* System Matrix	**Page No.**	**Fiber Backbone (Field Terminated Campus)**	**Fiber Backbone (Field Terminated In-Building)**	**Fiber Pre-Terminated Solutions**	**Fiber-To-The-Desk (FTTD) and Centralized Fiber**
Fiber*Express* Cables					
Breakout & Distribution Cable Series: MM & SM	41-47	•	•	•	•
Interconnect Cable Series: MM & SM	40				•
Loose Tube (Campus) Cable Series: MM & SM	48-55		•	•	•
MPO Cable Assemblies: MM & SM	12	•	•	•	•
Cross-Connect Hardware in the Telecom Room					
Fiber*Express* Ultra Patch Panel with Adapter Modules and Cassettes: MM & SM	15-21	•	•	•	•
Fiber*Express* Manager with Fiber*Express* Manager Connector Modules: MM & SM	22-23	•	•	•	•
Fiber*Express* Rack- and Wall-mount Patch Panel with Universal Adapter Strips: MM & SM	24-27	•	•		•
Fiber*Express* Bar: MM & SM	14	•	•	•	•
Patch Cords in the Telecom Room and at the Work Area					
Fiber*Express* Patch Cords: MM & SM	11	•	•	•	•
Outlets at the Work Area					
MDVO Multimedia Outlets with MDVO Multimedia Modules	38				•
MediaFlex® Outlets with MediaFlex Multimedia Inserts	37				•
Fiber Connectivity					
Optimax® Connectors: MM & SM	8-9	•	•		•
Epoxy Field-mountable Connectors: MM & SM	10	•	•		•
Fiber Pigtails: MM & SM	11	•	•		•

MM = Multimode • SM = Single-mode
* Fiber*Express* Pre-terminated Solutions provide simple-to-install, high-performance fiber channels through custom length, high precision factory terminated cables and matching optical connectivity components.

For more design details, please refer to the IBDN Optical Fiber Design Guide.

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Top-Quality, Field-proven Products Make the Difference

Every Belden Fiber*Express* product reflects our attention to quality and detail, and our commitment to you.

Belden Fiber*Express* components have over 20 years of field-proven telecommunications experience behind them. These products are designed with the same focus on quality and detail found in our complete Belden product line.

Fiber*Express* Ultra Patch Panel System

The Fiber*Express* Ultra Patch Panel System is a highly innovative fiber patching solution that ensures the utmost reliability and ease of use during installation, operation and maintenance. The system also provides the highest density fiber patching available today, enabling the conservation of valuable IT real estate and the ability to save on installation and maintenance labor costs.

It is available in both 1U and 4U designs, using LC or other Small Form Factor (SFF) connectors. It has dual swing-out frames to ease front access to connectors; 1" pull-out of individual adapter modules for connector maintenance or replacement; full rear access for easy maintenance; and built-in cable management features that facilitate connector and patch cord identification and built-in protection, as well as providing for intuitive cable routing. Wall-mount and Splice Enclosures are also available.

Fiber*Express* Manager

The Fiber*Express* Manager is a modular system that facilitates management of large numbers of high-density, in-building terminations. The Fiber*Express* Manager allows up to 1920 single-mode or multimode fiber terminations in a single rack.

The Fiber*Express* Manager's connector module supports LC, SC, SC Duplex, ST Type, FC and MT-RJ connectors. Its innovative release mechanism allows it to slide from the shelf like a PC card, greatly facilitating management of the patch cords.

Fiber*Express* Patch Panel System

Fiber*Express* Patch Panels can be used with tight-buffered or loose-tube optical fiber cables. Since these panels are versatile, they can be tailored to suit your individual needs in terms of density or management.

Patch Panels are populated with Universal Adapter Strips which are pre-loaded with six (single density) or 12 (double density) adapter sleeves. The sleeves are offered in two different materials: Phosphor Bronze and Zirconia Ceramic and accommodate LC, SC, SC Duplex, ST Type, FC and MT-RJ connectors.

Optimax Field-installable Connectors

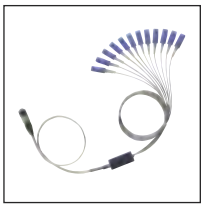
The Optimax Connector is a field-installable optical fiber connector that requires no epoxy and no polishing. The unique design of the patented mechanical splice body incorporates a factory-mounted fiber stub and a pre-polished ceramic ferrule. This technology provides a fast, secure and reliable LC, SC or ST Type optical fiber termination for either multimode or single-mode cable.

Belden Fiber Cables

A variety of multimode and single-mode optical fiber cables are available for in-building and inter-building applications, including the following types: distribution, breakout, interconnect, loose tube and industrial armored.

Fiber*Express* Cable Assemblies

Fiber*Express* MPO Cable Assemblies have multi-fiber cables using single MPO connectors (6, 8 and 12 fiber) that are used to interconnect pre-terminated Fiber*Express* Ultra Cassettes, Fiber*Express* Manager Connector Modules and Fiber*Express* Bars.



Multi-fiber Cable Assemblies are factory-terminated fiber cables of various constructions (distribution, breakout, loose tube or ribbon) using Simplex, Duplex or multi-fiber connectors.

The range of fan-out constructions, lengths and geometry suit virtually any application.

The Fiber*Express* Bar is an extremely compact, versatile and resilient linking panel. Resembling a power bar, it offers 6 or 12 fibers, pre-terminated with LC, SC, SC Duplex, ST Type, FC or MTRJ connectors and a cord terminated with a multi-fiber MPO connector. These factory-tested mini patch panels can adapt to all kinds of properties or developments, is easily re-deployable and can serve as a consolidation or linking point.

Fiber*Express* Patch Cords

Fiber*Express* Patch Cord assemblies are of the highest quality available. They are assembled and 100% optically tested in the factory prior to shipment.

Need an Even More Secure Infrastructure?

The Fiber*Express* Secure/Keyed LC System is designed to bring a whole new level of security into your network infrastructure design by enabling the physical segregation of any network segments that you designate.

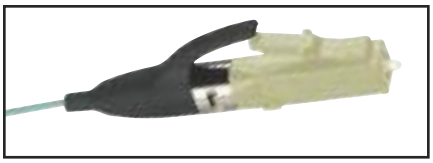
- **Connectors and adapters with 12 color-coded keying options**
- **A tamper-resistant key design (front and back to prevent intruder access) which cannot be reproduced inside a standard LC connector**

- **High-quality ceramic ferrules for low insertion loss and excellent durability**

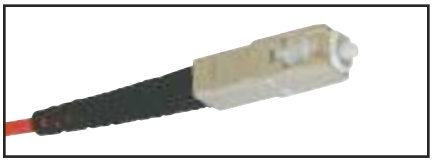
Start designing your own
Fiber*Express* Solution
by selecting from the
products featured in
the following pages.

Fiber*Express* Connectors

Optimax Field Installable Connectors and Installation Tool Kits



AX101982, Optimax LC Connector



AX100029 with AX101794 Optimax SC Connector

A0408835 with AX101793 Optimax ST Type Connector

AX103142, Optimax Enhanced Tool Kit

Optimax Field Installable Connector

The Optimax Connectors are the connector of choice for high-speed optical networks such as 10-Gigabit Ethernet. It is also the industry's best solution to the challenges of field connectorization of optical fiber networks. Optimax Connectors do not require epoxy, curing or polishing. Their unique design incorporates a factory-mounted fiber stub and a premium quality, zirconia ceramic ferrule with a physical contact (PC) polish for multimode and a super physical contact (SPC) polish for single-mode. The quality of the ferrule construction ensures the connector's low loss, low reflectance characteristics and its suitability for high-bandwidth optical transmissions.

Connectors are available for 62.5 or 50/125 µm multimode fiber and single-mode fiber installations. Only simple tools are required for installation, making Optimax a cost effective field termination.

Optimax Enhanced Installation Tool Kit

The Optimax Enhanced Installation Tool Kit is packaged in a small convenient carrying case and includes an Optimax LC, SC and ST Type installation and training video, installation instructions and all the tools required to terminate 900 µm buffered optical fiber and jacketed optical fiber.

Belden has simplified the Kit's Installation Tool components, added an Installation Tool table-top base and reduced the number of manuals with a "three-in-one" version for LC/SC/ST connectors types. Certain tool kit items can be purchased separately to accommodate installers already possessing basic optical fiber installation tools.

Description	Belden Part Number
Fiber*Express* Connectors	
Optimax Field Installable Connector	
LC 62.5 µm, Multimode*	**AX101981**
LC 50 µm, Multimode*	**AX101982**
LC Single-mode*	**AX101983**
SC 62.5 µm, Multimode*	**AX100029**
SC 50 µm, Multimode*	**AX101077**
SC Single-mode*	**AX101792**
ST Type 62.5 µm, Multimode*	**A0408835**
ST Type 50 µm, Multimode*	**AX101075**
ST Type Single-mode*	**AX101791**
LC Accessory Kit for jacketed fiber (2 mm & 3 mm boots, crimp sleeves)	**AX101984**
SC Accessory Kit for jacketed fiber (3 mm boots, crimp sleeves, cord adapter)	**AX101794**
ST Accessory Kit for jacketed fiber (3 mm boots, crimp sleeves)	**AX101793**

*For 900 µm buffered fiber only. For termination on jacketed fiber, please use the appropriate Accessory Kit.

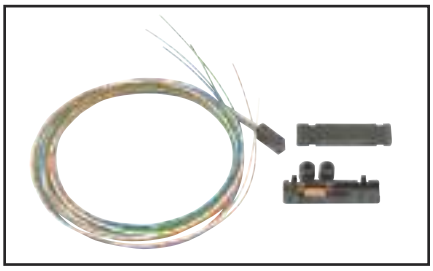
Fiber*Express* Connectors

Optimax Field Installable Connectors and Installation Tool Kits (continued)

Description	Belden Part Number
Fiber*Express* Connectors	
Optimax Enhanced Tool Kit	
LC/SC/ST Type (includes installation tools, fiber cleaver, crimping tool, instruction manual, microscope, tweezers, alcohol wipes, marker, scissors, waste bottle, universal fiber/cable stripper, and training video)	**AX103142**
Basic (excludes universal fiber/cable stripper & cleaver)	**AX103146**
Optimax Enhanced Tool Kit Upgrade (includes new installation tool and inserts, tool table-top base, instructions manual, foam for the case)	**AX103147**
Optimax Individual Components	
Fiber Cleaver	**A0408829**
Universal Installation Tool LC/SC/ST (includes inserts, tool, tool clamp)	**AX103152**
Installation Tool Table-top Base	**AX103153**
Microscope	**AX100910**
Refurbishing Materials (80 alcohol wipes and a black felt tip marker)	**AX100951**
Installation Instruction Manual (LC, SC, ST)	**AX103148**
Installation & Training Video, CD (see literature ordering form on the web)	**NOT0651**
Crimp Tool (complete with die)	**A0403641**
Cleaver's Ceramic Blade Replacement	**AX103149**
Cleaver's Leaf Spring Base plate replacement	**AX103150**

Optical Fiber Accessories

The Field Breakout Kit is designed to attach to one tube of a loose-tube cable. Each kit has either six or twelve 900 µm tubes that hold each of the coated fibers. For each end of the cable, one kit is needed for every tube. For example, a 12-fiber 62.5 µm cable contains two 6-fiber tubes. This cable would require four kits, two for each end.



AX101100, Field Breakout Kit

Description	Belden Part Number
Fiber*Express* Accessories	
Optical Fiber Field Breakout Kit	
6 fibers, 1/pack	**AX101100**
12 fibers, 1/pack	**AX101101**

Fiber*Express* Connectors
Epoxy Field Installable Connectors

A0390851, Optical Fiber Field Installable Epoxy Connector, ST Type

Epoxy Field Installable Connectors

Epoxy Field Installable Connectors are available as Multimode and Single-mode ST Type, SC and LC field installable connectors. They require heat-cured epoxy and polishing.

All connectors have a ceramic ferrule. ST and SC connectors come complete with all the parts necessary for termination of tight buffered fibers as well as jacketed fibers. LC connectors can be terminated on 900 µm tight buffered fiber only. Parts include crimp sleeves, boots, cord adapter and dust cap.

Description	Belden Part Number	
	Multimode	Single-mode
Fiber*Express* Connectors		
Epoxy Field Installable Connector		
ST Type	**A0390851**	**AX101412**
SC Simplex	**AX100919**	**AX101411**
SC Duplex	**AX100929**	
LC Simplex	**AC301184**	**AC300580**

Note: If you require information on heat cured epoxy polishing kits, please contact Belden's Technical Support at ibdn.ts@belden.com.

Fiber*Express* Pre-Connectorized Assemblies

Fiber*Express* Patch Cords

Fiber*Express* Patch Cords

Fiber*Express* Patch Cord Assemblies are of the highest quality available. They are assembled and 100% optically tested in our factory prior to shipment. All patch cords are built with high-quality connectors and cables which guarantees superior performance and excellent reliability.

AX200664, Patch Cord LC Duplex

Description	Belden Part Number			
	Multimode, OM1, 62.5 µm	Multimode, OM2, 50 µm	Multimode, OM3, 50 µm	Single-mode Enhanced, OS2
Fiber*Express* Pre-Connectorized Assemblies				
Duplex Patch Cord				
ST-ST, 2 m (6 ft.)	**70102419**	**AX200341**	**AX200799**	**AX200090**
ST-ST, 3 m (10 ft.)	**70102420**	**AX200459**	**AX200795**	**AX200091**
ST-ST, 5 m (16 ft.)	**70102447**	**AX200413**	**AX200800**	**AX200092**
568SC-568SC, 2 m (6 ft.)	**AX200056**	**AX200084**	**AX200603**	**AX200094**
568SC-568SC, 3 m (10 ft.)	**AX200057**	**AX200082**	**AX200589**	**AX200095**
568SC-568SC, 5 m (16 ft.)	**AX200058**	**AX200280**	**AX200624**	**AX200096**
LC Duplex-LC Duplex, 2 m (6 ft.)	**AX200517**	**AX200527**	**AX200664**	**AX200507**
LC Duplex-LC Duplex, 3 m (10 ft.)	**AX200518**	**AX200528**	**AX200665**	**AX200508**
LC Duplex-LC Duplex, 5 m (16 ft.)	**AX200519**	**AX200529**	**AX200666**	**AX200509**
MT-RJ-MT-RJ, 2 m (6 ft.)	**AX101122**	**AX101139**	**AX200801**	**AX101157**
MT-RJ-MT-RJ, 3 m (10 ft.)	**AX101123**	**AX101138**	**AX200802**	**AX101156**
MT-RJ-MT-RJ, 5 m (16 ft.)	**AX101125**	**AX101137**	**AX200803**	**AX101155**
Hybrid Patch Cord				
568SC-ST, 3 m (10 ft.)	**AX200060**	**AX200196**	**AX200900**	**AX200421**
LC Duplex-ST, 3 m (10 ft.)	**AX200699**	**AX200695**	**AX200809**	**AX200698**
LC Duplex-568SC, 3 m (10 ft.)	**AX200580**	**AX200581**	**AX200668**	**AX200667**
MT-RJ-ST, 3 m (10 ft.)	**AX101133**	**AX101151**	**AX200810**	**AX101166**
MT-RJ-568SC, 3 m (10 ft.)	**AX101128**	**AX101143**	**AX200797**	**AX101161**
Single-ended (pigtails)				
ST-open, 2 m (6 ft.)	**70100390**	**AX200458**	**AX200811**	**AX200097**
SC-open, 2 m (6 ft.)	**70101714**	**AX200192**	**AX200653**	**AX200098**
LC-open, 2 m (6 ft.)	**AX200657**	**AX200658**	**AX200660**	**AX200659**
MT-RJ(m)-open, 3 m (10 ft.)	**AX101366**	**AX101367**	**AX200812**	**AX101368**

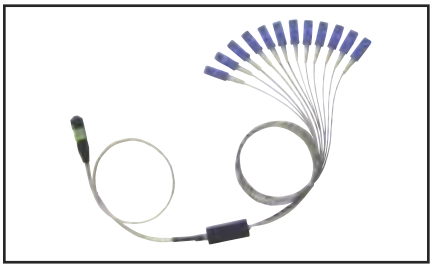
Also available as Simplex and Hybrid Patch Cords or as custom lengths and assemblies, please contact Customer Service for more details.

Fiber*Express* Pre-Connectorized Assemblies

Cable Assemblies

AX250105, MPO Cable Assembly

Multi-fiber Cable Assembly



900 µm Fan-out Assembly

MPO Cable Assemblies

MPO Cable Assemblies are multi-fiber cables using single MPO connectors (6, 8 and 12 fiber) that are used to interconnect pre-terminated devices such as Fiber*Express* Pre-terminated Modules and Fiber*Express* Bars. Depending on the application, MPO Cable Assemblies can use Ribbon cables or Loose Tube cables. MPO cables are available in lengths of up to 500 meters with a pulling-eye for ease of deployment.

Multi-fiber Cable Assemblies

Multi-fiber Cable Assemblies are factory-terminated fiber cables of various constructions (distribution, breakout or ribbon) using Simplex, Duplex or Multi-fiber connectors. They are available in configurations from 2 fibers up to 144 fibers with various kinds of fan-out constructions, lengths and geometry to suit virtually any application.

Description	Belden Part Number	
	Multimode, OM1, 62.5 µm	Multimode, OM2, 50 µm
Fiber*Express* Pre-Connectorized Assemblies		
MPO Cable Assembly, FOMC, MPO(f)-MPO(f)		
1 pulling eye, OFNP, 12 fibers, 10 m (33 ft.)	AX250021	AX250345
1 pulling eye, OFNP, 12 fibers, 20 m (66 ft.)	AX250105	AX250376
1 pulling eye, OFNP, 12 fibers, 50 m (164 ft.)	AX250349	AX250065
1 pulling eye, OFNP, 12 fibers, 75 m (246 ft.)	AX250060	AX250066
1 pulling eye, OFNP, 12 fibers, 100 m (328 ft.)	AX250061	AX250067
	Multimode, OM3, 50 µm	Single-mode Enhanced, OS2
1 pulling eye, OFNP, 12 fibers, 10 m (33 ft.)	AX250457	AX250224
1 pulling eye, OFNP, 12 fibers, 20 m (66 ft.)	AX250412	AX250106
1 pulling eye, OFNP, 12 fibers, 50 m (164 ft.)	AX250387	AX250071
1 pulling eye, OFNP, 12 fibers, 75 m (246 ft.)	AX250413	AX250072
1 pulling eye, OFNP, 12 fibers, 100 m (328 ft.)	AX250458	AX250073

Also available in 6 or 8-fiber MPO Cable Assemblies, please contact Customer Service for more details.

Fiber*Express* Pre-Connectorized Assemblies
Cable Assemblies (continued)

Description	Belden Part Number
Fiber*Express* Pre-Connectorized Assemblies	
Multi-fiber Cable Assembly, MPO(m)-SC	
Multimode OM1, 62.5 µm, 12 fibers, 1.5 m (5 ft.)	**NXC-RPML-PGPNNN-SCPFBN-N-01.5**
Multimode OM2, 50 µm, 12 fibers, 1.5 m (5 ft.)	**NXC-RPNL-PGPNNN-SCPFBN-N-01.5**
Multimode OM3, 50 µm, 12 fibers, 1.5 m (5 ft.)	**NXC-RPFL-PGPNNN-SCPFBN-N-01.5**
Single-mode Enhanced, OS2, 12 fibers, 1.5 m (5 ft.)	**NXC-RPSL-PGANNN-SCSFBN-N-01.5**
Multi-fiber Cable Assembly, MPO(m)-LC	
Multimode, OM1, 62.5 µm, 12 fibers, 1.5 m (5 ft.)	**NXC-RPML-PGPNNN-LCPFBN-N-01.5**
Multimode OM2, 50 µm, 12 fibers, 1.5 m (5 ft.)	**NXC-RPNL-PGPNNN-LCPFBN-N-01.5**
Multimode OM3, 50 µm, 12 fibers, 1.5 m (5 ft.)	**NXC-RPFL-PGPNNN-LCPFBN-N-01.5**
Single-mode Enhanced, OS2, 12 fibers, 1.5 m (5 ft.)	**NXC-RPSL-PGANNN-LCSFBN-N-01.5**
Multi-duplex Cable Assembly, LCD-LCD	
Multimode, OM3, 50 µm, OFNP, 12 fibers, 10 m (33 ft.)	**NXC-MPFL-LDPFEN-LDPFEN-0-0010**
Multimode, OM3, 50 µm, OFNP, 24 fibers, 10 m (33 ft.)	**NXC-MPFX-LDPFEN-LDPFEN-0-0010**
Multimode, OM3, 50 µm, OFNR, 12 fibers, 10 m (33 ft.)	**NXC-MRFL-LDPFEN-LDPFEN-0-0010**
Multimode, OM3, 50 µm, OFNR, 24 fibers, 10 m (33 ft.)	**NXC-MRFX-LDPFEN-LDPFEN-0-0010**
Single-mode Enhanced, OS2, OFNP, 12 fibers, 10 m (33 ft.)	**NXC-MPSL-LDUFEN-LDUFEN-0-0010**
Single-mode Enhanced, OS2, OFNP, 24 fibers, 10 m (33 ft.)	**NXC-MPSX-LDUFEN-LDUFEN-0-0010**
Single-mode Enhanced, OS2, OFNR, 12 fibers, 10 m (33 ft.)	**NXC-MRSL-LDUFEN-LDUFEN-0-0010**
Single-mode Enhanced, OS2, OFNR, 24 fibers, 10 m (33 ft.)	**NXC-MRSX-LDUFEN-LDUFEN-0-0010**

Note: For front of panel connections.

Multi-duplex Cable Assembly, LC-LC	
Multimode, OM3, 50 µm, OFNP, 12 fibers, 10 m (33 ft.)	**NXC-MPFL-LCPFBN-LCPFBN-0-0010**
Multimode, OM3, 50 µm, OFNP, 24 fibers, 10 m (33 ft.)	**NXC-MPFX-LCPFBN-LCPFBN-0-0010**
Multimode, OM3, 50 µm, OFNR, 12 fibers, 10 m (33 ft.)	**NXC-MRFL-LCPFBN-LCPFBN-0-0010**
Multimode, OM3, 50 µm, OFNR, 24 fibers, 10 m (33 ft.)	**NXC-MRFX-LCPFBN-LCPFBN-0-0010**
Single-mode Enhanced, OS2, OFNP, 12 fibers, 10 m (33 ft.)	**NXC-MPSL-LCUFBN-LCUFBN-0-0010**
Single-mode Enhanced, OS2, OFNP, 24 fibers, 10 m (33 ft.)	**NXC-MPSX-LCUFBN-LCUFBN-0-0010**
Single-mode Enhanced, OS2, OFNR, 12 fibers, 10 m (33 ft.)	**NXC-MRSL-LCUFBN-LCUFBN-0-0010**
Single-mode Enhanced, OS2, OFNR, 24 fibers, 10 m (33 ft.)	**NXC-MRSX-LCUFBN-LCUFBN-0-0010**

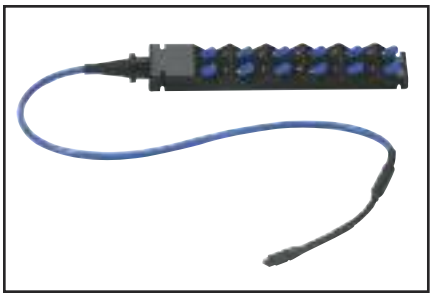
For back panel to back panel connections (Horizontal links).

Note: To order a similar construction but with a different length in meters (ft.), replace the digits at the end of the Belden part number.
Example: Multimode, OM3, 50 µm, OFNR, 12 fibers, 75 m (246 ft.) – NXC-MRFL-LDPFBN-LDPFBN-0-0075

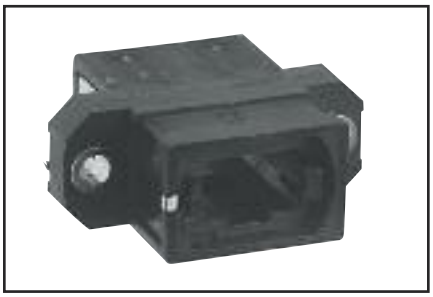
For any other assemblies, please contact Belden's Technical Support at 1-800-858-7954 or ibdn.ts@belden.com.

Fiber*Express* Pre-Connectorized Assemblies

Fiber*Express* Bar



AX250001, Fiber*Express* Bar 12 ST Type



MX100154, Fiber*Express* MPO Adapter

Fiber*Express* Bar

The Fiber*Express* Bar consists of a custom length fiber cable with, at one end, a factory pre-terminated rugged mini patch panel and, at the other end, a factory installed multi-fiber MPO connector. The very compact fiber patch panel contains 6 or 12 factory-terminated and tested connectors in a variety of styles. The ruggedness of the Fiber*Express* Bar makes it an ideal candidate for disaster recovery, industrial applications and other fiber deployments in harsh environments.

Fiber*Express* Bar Accessories

The MPO Adapter is the sleeve that provides primary alignment and locking when connecting the two MPO connectors (male to female). It has a flange and a metal clip for panel mounting and it is included with each Fiber*Express* Bar (1 m with male connector).

Description	Belden Part Number
Fiber*Express* Pre-Connectorized Assemblies	
Fiber*Express* Bar Multimode, OM1, 62.5 µm	
12 ST Type, MPO (m), 1 m	**AX250001**
6 SC Duplex, MPO (m), 12 fibers, 1 m	**AX250005**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250178**
12 LC, MPO (m), 1 m	**AX250539**
Fiber*Express* Bar Multimode, OM2, 50 µm	
12 ST Type, MPO (m), 1 m	**AX250052**
6 SC Duplex, MPO (m), 12 fibers, 1 m	**AX250054**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250179**
12 LC, MPO (m), 1 m	**AX250540**
Fiber*Express* Bar Multimode, OM3, 50 µm	
12 ST Type, MPO (m), 1 m	**AX250459**
6 SC Duplex , MPO (m), 12 fibers, 1 m	**AX250460**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250461**
12 LC, MPO (m), 1 m	**AX250541**
Fiber*Express* Bar Single-mode Enhanced, OS2	
12 ST Type, MPO (m), 1 m	**AX250009**
6 SC Duplex , MPO (m), 12 fibers, 1 m	**AX250011**
6 MT-RJ, MPO (m), 12 fibers, 1 m	**AX250180**
12 LC, MPO (m), 1 m	**AX250542**
Also available for 6 fibers, please contact Customer Service for more details.	
Fiber*Express* Bar Accessories	
MPO Adapter (6 or 12 fibers) included with each Fiber*Express* Bar (1 m - Male)	**MX100154**

Fiber*Express* Ultra Patch Panels

Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures

The Fiber*Express* Ultra Patch Panel System

Belden's Fiber*Express* Ultra Patch Panel System is ultra-rich in user-friendly features that elevate fiber patching to a whole new level. Designed to meet the needs of IT managers and their technical teams, Belden built the system around three core concepts:

- Ultra high density
- Ultra-easy installation and maintenance
- Ultra flexibility, scalability and manageability

The result is a fiber patching system that is easy to deploy, operate and maintain, while ensuring maximum uptime, uninterrupted availability and superior performance – whether in the data center, LAN backbone or storage area network (SAN). The system's modular design provides optimal flexibility and scalability to "future proof" your investment and to provide a low total cost of ownership when compared with other fiber patching systems.

Fiber*Express* Ultra Patch Panels

Fiber*Express* Ultra Patch Panels provide ultra high density connection while facilitating cable routing and patch cord management. Available in Rack-mount and Wall-mount versions, the Patch Panels are totally modular and scalable to accommodate future fiber build-out. Wall-mount version accommodates two (2) Frames or Cassettes for a maximum capacity of 48 fibers (LC or MT-RJ). Rack-mount version is available in two sizes: 1U and 4U. 1U unit accommodates four (4) Frames or Cassettes for a maximum of 96 fibers (LC or MT-RJ); 4U unit accommodates 12 Frames or Cassettes for a maximum of 288 fibers (LC or MT-RJ).

Fiber*Express* Ultra Bezels and Frames

Fiber*Express* Ultra Frames – typically preloaded with Bezels – provide streamlined patch cord management and optimal design flexibility and single- or dual-connector options. A unique (patent pending) mechanism allows the Bezel to slide out 1-inch (2.5 cm) from the frame, providing easy connector access and patch cord management. Available in a wide variety of connector types, in both multimode and single-mode versions, and in the newly recognized TIA/EIA multimode colors. The Bezels and Frames can be easily inserted or removed from the panel for enhanced maintenance capabilities. Each Frame can accommodate a maximum of six (6) Bezels. Frames with pigtails come loaded with connector Bezels and 2-meter pigtails.

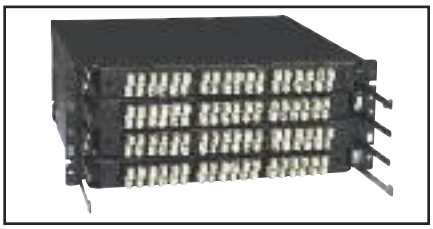
Fiber*Express* Ultra Pre-terminated Cassettes

Fiber*Express* Ultra Cassettes comes fully loaded with connector Bezels and pre-terminated with MPO connection(s) at the rear of the Cassette. In combination with the Bezels and the 1-inch pull-out feature, the Cassette provides easy connection access. Cassettes can also be easily inserted or removed from the Patch Panels for enhanced maintenance capabilities. The Cassette's rear assembly and cover is available separately to provide additional installation capability.

Fiber*Express* Ultra Splice Tray Kits and Enclosures

Fiber*Express* Ultra Splice Tray Kits offer splicing solutions that support, protect and organize optical fibers to make splicing faster, easier to perform, more secure and error-free. Available in three sizes: each Splice Tray Kit contains one (1) organizer tray, fiber support and connection tubes, cable ties and identification markers. The Kits feature rugged 20-gauge steel construction and a Lexan cover.

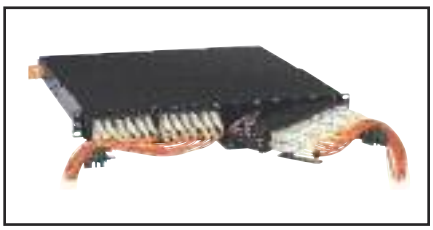
The Splice Enclosures provide a convenient area for bonding, grounding and termination of the cables, while maintaining the proper bend radius and intuitive cable routing. Available in Rack- and Wall-mount versions, they come equipped with all the hardware necessary to organize and protect cables and splices.



AX103267, Fiber*Express* Ultra 4U Rack Mount Patch Panel

AX103928, Fiber*Express* Ultra Stackable Wall-mount Patch Panel

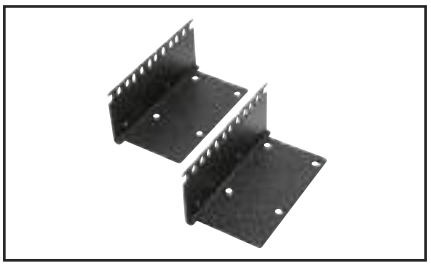
Fiber*Express* Ultra Wall-mount Patch Panel with Spacer



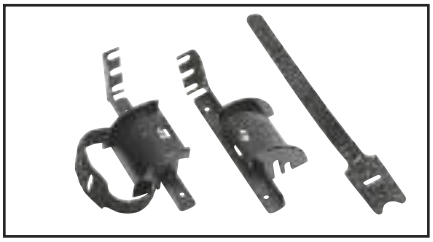
AX103143, Fiber*Express* Ultra 1U Patch Panel

Fiber*Express* Ultra Patch Panels

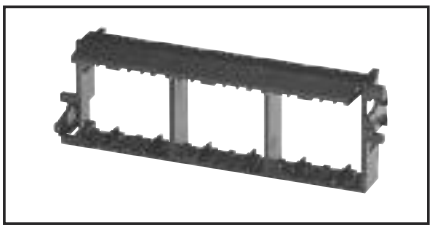
Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures (continued)



AX103910, Fiber*Express* Ultra 4U 23" Extension Mounting Brackets



AX103272, Fiber*Express* Ultra Patch Cord Management Brackets



AX103916, Fiber*Express* Ultra Empty Frame

Fiber*Express* Ultra Frame with Pigtails

Description	Belden Part Number
Fiber*Express* Ultra System	
Rack-mount Patch Panels/Components	
1U Patch Panel, 19", Black	AX103143
4U Patch Panel, 19", Black	AX103267
4U 23" Extension Brackets, Black	AX103910
Patch Cord Management Brackets, Black	AX103272
1U Patch Cord Cover	AX103915
Wall-mount Patch Panels/Components	
Stackable Patch Panel, Black	AX103928
2-inch Spacer, Black	AX103932
Door Lock Kit	AX103934

Description	Belden Part Number			
	Multimode, OM1, 62.5 µm	Multimode, OM2, 50 µm	Multimode, OM3, 50 µm	Single-mode Enhanced, OS2
Fiber*Express* Ultra System				
Frames - ST Type, SC Simplex, SC Duplex, LC Duplex, MT-RJ, FC				
ST Type, 6 fibers	AX103382	–	–	AX103467
ST Type, 12 fibers	AX103403	–	–	AX103493
SC Simplex, 6 fibers	AX103383	AX103439	AX103453	AX103468
SC Simplex w/shutter, 6 fibers	AX103384	AX103440	AX103454	AX103469
SC Simplex, 12 fibers	AX103404	AX103445	AX103459	AX103494
SC Duplex, 6 fibers	AX103385	AX103441	AX103455	AX103470
SC Duplex w/shutter, 6 fibers	AX103386	AX103442	AX103456	AX103471
SC Duplex, 12 fibers	AX103406	AX103447	AX103461	AX103496
LC Duplex, 6 fibers	AX103387	AX103443	AX103457	AX103476
LC Duplex w/shutter, 6 fibers	AX103388	AX103444	AX103458	AX103477
LC Duplex, 12 fibers	AX103408	AX103449	AX103463	AX103502
LC Duplex w/shutter, 12 fibers	AX103409	AX103450	AX103464	AX103503
LC Duplex, 24 fibers	AX103424	AX103451	AX103465	AX103519
MT-RJ, 6 fibers	AX103389	–	–	AX103859
MT-RJ, 12 fibers	AX103410	–	–	AX103860
MT-RJ, 24 fibers	AX103426	–	–	AX103861
FC, 6 fibers	AX103390	–	–	AX103480
FC, 12 fibers	AX103411	–	–	AX103506
Frame w/6 blanks	AX103862			
Frame, empty	AX103916			
Cassette Rear Assembly	AX103917			
Universal Frame w/Cassette Rear Assembly	AX103918			

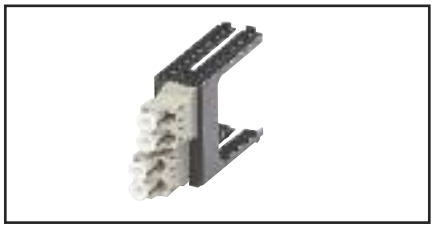
Fiber*Express* Ultra Patch Panels

Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures (continued)

Description	Belden Part Number Single-mode Enhanced, OS2
Fiber*Express* Ultra System	
Frames - SP APC Simplex, SC APC Duplex, LC APC	
SC APSC APC Simplex, 6 fibers	**AX103472**
SC APC Simplex w/shutter, 6 fibers	**AX103473**
SC APC Simplex, 12 fibers	**AX103498**
SC APC Duplex, 6 fibers	**AX103474**
SC APC Duplex w/shutter, 6 fibers	**AX103475**
SC APC Duplex, 12 fibers	**AX103500**
LC APC Duplex, 6 fibers	**AX103478**
LC APC Duplex w/shutter, 6 fibers	**AX103479**
LC APC Duplex, 12 fibers	**AX103504**
LC APC Duplex w/shutter, 12 fibers	**AX103505**
LC APC Duplex, 24 fibers	**AX103521**

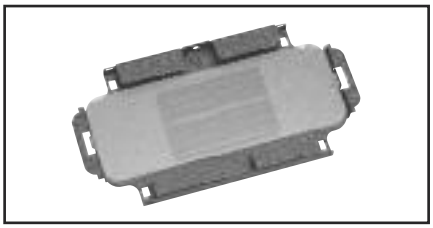
Description	Belden Part Number			
	Multimode, OM1, 62.5 µm	Multimode, OM2, 50 µm	Multimode, OM3, 50 µm	Single-mode Enhanced, OS2
Fiber*Express* Ultra System				
Frames w/pigtails - SC Simplex, SC Duplex, LC Duplex				
SC Simplex w/pigtails, 6 fibers	**AX103535**	**AX103549**	**AX103563**	**AX103591**
SC Simplex w/shutter & pigtails, 6 fibers	**AX103536**	**AX103550**	**AX103564**	**AX103592**
SC Simplex w/pigtails, 12 fibers	**AX103541**	**AX103555**	**AX103569**	**AX103603**
SC Duplex w/pigtails, 6 fibers	**AX103537**	**AX103551**	**AX103565**	**AX103593**
SC Duplex w/shutter & pigtails, 6 fibers	**AX103538**	**AX103552**	**AX103566**	**AX103594**
SC Duplex w/pigtails, 12 fibers	**AX103543**	**AX103557**	**AX103571**	**AX103605**
LC Duplex w/pigtails, 6 fibers	**AX103539**	**AX103553**	**AX103567**	**AX103599**
LC Duplex w/shutter & pigtails, 6 fibers	**AX103540**	**AX103554**	**AX103568**	**AX103600**
LC Duplex w/pigtails, 12 fibers	**AX103545**	**AX103559**	**AX103573**	**AX103611**
LC Duplex w/shutter & pigtails, 12 fibers	**AX103546**	**AX103560**	**AX103574**	**AX103612**
LC Duplex w/pigtails, 24 fibers	**AX103547**	**AX103561**	**AX103575**	**AX103615**

AX103424, Fiber*Express* Ultra Loaded Frame



AX103283, Fiber*Express* Ultra Bezel

AX103683, Fiber*Express* Ultra Cassette



AX103912, Fiber*Express* Ultra 8" Splice Tray Kit

Fiber*Express* Ultra Patch Panels

Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures (continued)

Description	Belden Part Number Single-mode Enhanced, OS2
Fiber*Express* Ultra System	
Frames w/pigtails - SC APC Simplex, SC APC Duplex, LC APC Duplex	
SC APC Simplex w/pigtails, 6 fibers	**AX103595**
SC APC Simplex w/shutter & pigtails, 6 fibers	**AX103596**
SC APC Simplex w/pigtails, 12 fibers	**AX103607**
SC APC Duplex w/pigtails, 6 fibers	**AX103597**
SC APC Duplex w/shutter & pigtails, 6 fibers	**AX103598**
SC APC Duplex w/pigtails, 12 fibers	**AX103609**
LC APC Duplex w/pigtails, 6 fibers	**AX103601**
LC APC Duplex w/shutter & pigtails, 6 fibers	**AX103602**
LC APC Duplex w/pigtails, 12 fibers	**AX103613**
LC APC Duplex w/shutter & pigtails, 12 fibers	**AX103614**
LC APC Duplex w/pigtails, 24 fibers	**AX103617**

Fiber*Express* Ultra Patch Panels

Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures (continued)

Description	Belden Part Number			
	Multimode, OM1, 62.5 µm	Multimode, OM2, 50 µm	Multimode, OM3, 50 µm	Single-mode Enhanced, OS2
Fiber*Express* Ultra System				
Bezels – ST Type, SC Simplex, SC Duplex, LC Duplex, MT-RJ, FC Simplex				
ST Type, 1-adapter	**AX103276**	–	–	**AX103332**
ST Type, 2-adapter	**AX103277**	–	–	**AX103333**
SC Simplex, 1-adapter	**AX103278**	**AX103316**	**AX103324**	**AX103334**
SC Simplex w/shutter, 1-adapter	**AX103279**	**AX103317**	**AX103325**	**AX103335**
SC Simplex, 2-adapter	**AX103853**	**AX103854**	**AX103855**	**AX103342**
SC Duplex, 1-adapter	**AX103280**	**AX103318**	**AX103326**	**AX103336**
LC Duplex, 1-adapter	**AX103282**	**AX103320**	**AX103328**	**AX103346**
LC Duplex, 2-adapter	**AX103283**	**AX103322**	**AX103330**	**AX103350**
LC Duplex w/shutter, 1-adapter	**AX103284**	**AX103321**	**AX103329**	**AX103347**
MT-RJ , 1 adapter	**AX103286**	–	–	**AX103354**
MT-RJ , 2 adapter	**AX103287**	–	–	**AX103355**
FC Simplex, 1-adapter	**AX103288**	–	–	**AX103356**
FC Simplex, 2-adapter	**AX103289**	–	–	**AX103357**
MPO, 1-adapter	**AX103290**			
Blank	**AX103291**			

Description	Belden Part Number Single-mode Enhanced, OS2
Fiber*Express* Ultra System	
Bezels - SC APC Simplex, SC APC Duplex, LC APC Duplex	
SC APC Simplex, 1-adapter	**AX103338**
SC APC Simplex w/shutter, 1-adapter	**AX103339**
SC APC Simplex, 2-adapter	**AX103344**
SC APC Duplex, 1-adapter	**AX103340**
LC APC Duplex, 1-adapter	**AX103348**
LC APC Duplex w/shutter, 1-adapter	**AX103349**
LC APC Duplex, 2-adapter	**AX103352**

Fiber*Express* Ultra Patch Panels

Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures (continued)

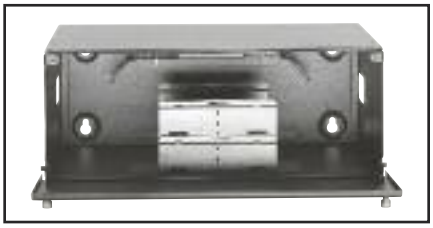
Description	Belden Part Number			
	Multimode, OM1, 62.5 µm	Multimode, OM2, 50 µm	Multimode, OM3, 50 µm	Single-mode Enhanced, OS2
Fiber*Express* Ultra System				
Cassettes				
ST-MPO, 6 fibers	**AX103619**	**AX103673**	**AX103691**	**AX103799**
ST-MPO, 12 fibers	**AX103638**	**AX103680**	**AX103710**	**AX103818**
SC Duplex-MPO, 6 fibers	**AX103620**	**AX103674**	**AX103692**	**AX103800**
SC Duplex w/shutter-MPO, 6 fibers	**AX103621**	**AX103675**	**AX103693**	**AX103801**
SC Duplex-MPO, 12 fibers	**AX103639**	**AX103681**	**AX103711**	**AX103819**
LC Duplex-MPO, 6 fibers	**AX103622**	**AX103676**	**AX103694**	**AX103802**
LC Duplex w/shutter-MPO, 6 fibers	**AX103623**	**AX103677**	**AX103695**	**AX103803**
LC Duplex-MPO, 12 fibers	**AX103641**	**AX103683**	**AX103713**	**AX103821**
LC Duplex w/shutter-MPO, 12 fibers	**AX103642**	**AX103684**	**AX103714**	**AX103822**
LC Duplex-MPO, 24 fibers	**AX103657**	**AX103687**	**AX103729**	**AX103837**
MT-RJ(M)-MPO, 6 fibers	**AX103625**	**AX103679**	**AX103697**	**AX103805**
MT-RJ(M)-MPO, 12 fibers	**AX103644**	**AX103686**	**AX103716**	**AX103824**
MT-RJ(M)-MPO, 24 fibers	**AX103660**	**AX103690**	**AX103732**	**AX103840**

Fiber*Express* Ultra Patch Panels

Wall- and Rack-Mount Patch Panels, Bezels, Frames, Cassettes, Splice Tray Kits and Enclosures (continued)

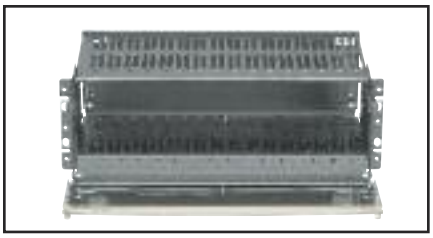
Description	Belden Part Number
Fiber*Express* Ultra System	
Wall- and Rack-mount Splice Enclosures	
Wall-mount Splice Enclosure, Black	**AX103930**
Rack-mount Splice Enclosure, 4U, Black	**AX103900**
Splice Kits/Lock	
8" Splice Tray Kit	**AX103912**
10" Splice Tray Kit	**AX103913**
12" Splice Tray Kit	**AX103914**
Lock (for Wall-mount Splice Enclosure)	**AX103934**
Patch Panel and Splice Enclosure Flex Kit	**AX104002**

AX103930, Fiber*Express* Ultra Wall-mount Splice Enclosure

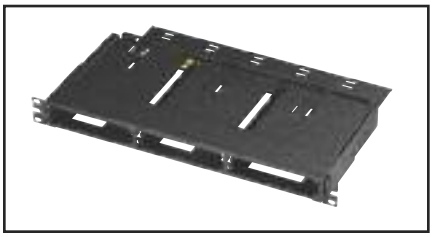


AX103900, Fiber*Express* Ultra Rack-mount Enclosure (with Splice Tray Caddy), 4U

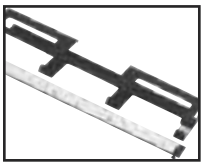
Fiber*Express* Manager



AX100935, Fiber*Express* Manager Shelf

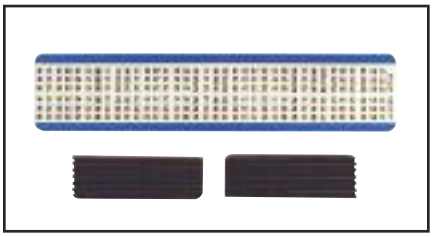


AX101943, Fiber*Express* Manager 1U Rack Mount Patch Panel



AX102032, Fiber*Express* Manager 1U Cable Management Accessory

AX100945, Flex Kit



AX101098, Splice Holder Kit

Fiber*Express* Manager Shelf

Fiber*Express* Modules are rack-mounted using Fiber*Express* Manager Shelves. The shelves provide the total system with extra high connection density while facilitating cable routing and patch cord management. For 19- or 23-inch rack: 19 in. shelf holds up to 12 modules; 23 in. shelf holds up to 16 modules.

Fiber*Express* Manager 1U

The Fiber*Express* Manager 1U Rack Mount Patch Panel is a low-cost, compact assembly designed for interconnection or splicing of optical fiber cables, using up to three Fiber*Express* Manager Modules. The low-profile design minimizes rack space to only 45 mm (1.75 in.). An optional Fiber*Express* Manager 1U Cable Management Accessory is also available.

Fiber*Express* Manager Connector Module

The Connector Module is the basic building block of the Fiber*Express* Manager. It is designed with a unique release mechanism that allows it to slide from the shelf like a PC card, easing management of patch cords.

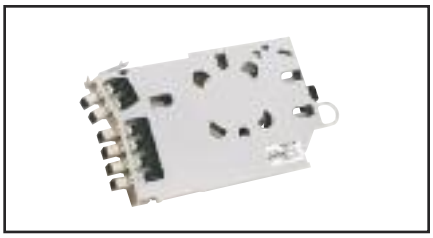
The Flex Kit contains tubes and manifolds designed to split cables into individual fiber strands, and is suitable for 6 fibers up to 12 fibers. It is necessary for use with loose tube cables or when the fiber cable count does not match the number of connections in the Fiber*Express* Manager Connector Module. The Flex Kit tubes help to maintain proper fiber bend radius. One kit is required per 12 modules (one 19 in. shelf).

A **Splice Holder Kit** can be used to hold fusion or mechanical splices. Each splice holder can handle up to 6 splices.

Description	Belden Part Number
Fiber*Express* Manager	
Shelf, 23 in., 10.9 kg (24 lb)	**AX100935**
Shelf, 19 in., 8.2 kg (18 lb)	**AX101085**
1U, Rack Mount Patch Panel, 19 in., 5 kg (11 lb)	**AX101943**
1U, Cable Management Accessory, 19 in., 1 kg (2 lb)	**AX102032**
Flex Kit	**AX100945**
Splice Holder Kit	**AX101098**

Fiber*Express* Manager

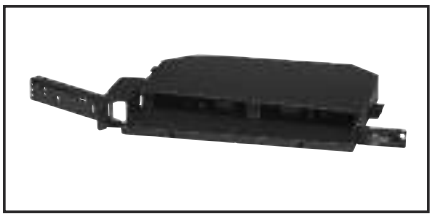
Description	Belden Part Number
Fiber*Express* Manager	
Fiber*Express* Manager Connector Module	
Metal Sleeve, Multimode, ST Type, 6 fibers	**AX101089**
Metal Sleeve, Multimode, SC Duplex, 6 fibers	**AX101092**
Zirconia Ceramic, Single-mode, ST Type, 6 fibers	**AX100936**
Zirconia Ceramic, Single-mode, SC Simplex, 6 fibers	**AX100943**
Zirconia Ceramic, Single-mode, SC Duplex, 6 fibers	**AX100944**
Metal Sleeve, Multimode, ST Type, 12 fibers	**AX101187**
Metal Sleeve, Multimode, SC Duplex, 12 fibers	**AX101714**
Metal Sleeve, Multimode, SC Duplex (ST in), 12 fibers	**AX101120**
Metal Sleeve, Multimode, LC, 12 fibers	**AX101528**
Zirconia Ceramic, Single-mode, ST Type, 12 fibers	**AX101186**
Zirconia Ceramic, Single-mode, SC Duplex, 12 fibers	**AX101713**
Zirconia Ceramic, Single-mode, SC Duplex (ST in),12 fibers	**AX101119**
Zirconia Ceramic, Single-mode, LC, 12 fibers	**AX101527**
Zirconia Ceramic, Single-mode, SC Duplex, 12 UPC pigtails	**AX101715**
Metal Sleeve, Multimode, LC, 24 fibers	**AX102306**
Zirconia Ceramic, Single-mode, LC, 24 fibers	**AX102305**
Zirconia Ceramic, Single-mode/Multimode, FC, 6 fibers	**AX100937**
Multimode 62.5 µm, MPO(m)-ST Type, 12 pre-terminated	**AX101189**
Multimode 62.5 µm, MPO(m)-SC Duplex, 12 pre-terminated	**AX101091**
Multimode 62.5 µm, MPO(m)-MT-RJ(m), 12 pre-terminated	**AX101525**
Multimode 62.5 µm, MPO(m)-LC, 12 pre-terminated	**AX101530**
Multimode 62.5 µm, MPO(m)-LC, 24 pre-terminated	**AX102309**
Multimode 50 µm, MPO(m)-ST Type, 12 pre-terminated	**AX101190**
Multimode 50 µm, MPO(m)-SC Duplex, 12 pre-terminated	**AX101114**
Multimode 50 µm, MPO(m)-MT-RJ(m), 12 pre-terminated	**AX101526**
Multimode 50 µm, MPO(m)-LC, 12 pre-terminated	**AX101531**
Multimode 50 µm, MPO(m)-LC, 24 pre-terminated	**AX102308**
Single-mode, MPO(m)-ST Type, 12 pre-terminated	**AX101188**
Single-mode, MPO(m)-SC Duplex, 12 pre-terminated	**AX101090**
Single-mode, MPO(m)-MT-RJ(m), 12 pre-terminated	**AX101524**
Single-mode, MPO(m)-LC, 12 pre-terminated	**AX101529**
Single-mode, MPO(m)-LC, 24 pre-terminated	**AX102307**
MT-RJ, Beige, Multimode, FC, 12 fibers	**AX101096**
MT-RJ, Blue, Single-mode, FC, 12 fibers	**AX101581**



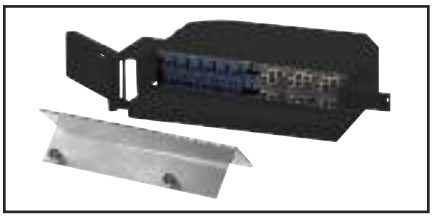
AX101525, Connector Module Pre-terminated MPO-MT-RJ

Fiber*Express* Patch Panels

Rack-Mount Patch Panels



AX100041, Fiber*Express* 12/24 Port (1U) Rack-Mount Patch Panel



AX100068, Fiber*Express* 24/48 Port (2U) Rack-Mount Patch Panel

AX100077, Fiber*Express* (3U) Rack-Mount Patch Panel

AX100116, Fiber*Express* 48/96 Port (4U) Rack-Mount Patch Panel

The Fiber*Express* 1U Rack-Mount Patch Panels are equipped with a special hinge that allows easy access to the rear of the patch panel without disturbing the optical fiber cable. A specially designed front panel allows connector protection and easy routing of optical fiber patch cords. The Fiber*Express* Rack-Mount Patch Panels are also compatible with our 203 mm (8 in.) Splice Organizer Trays. This allows the optical fiber cable to be either terminated with fiber single-ended patch cords or field-installable connectors. The patch panels can be used with ST Type, SC, 568SC, FC, LC or MT-RJ adapters strips (ordered separately).

The Fiber*Express* 1U Rack-Mount Patch Panel is a low-cost, compact assembly designed for interconnection or splicing of optical fiber cables, from 12 up to 48 fibers if MT-RJ or LC double density adapter strips are used. The low-profile design minimizes rack space to only 45 mm (1.75 in.). An optional smoked Plexiglass front cover is also available.

The Fiber*Express* 4U Rack-Mount Patch Panel is an economical solution for the protection of optical fiber terminations and splices, up to 192 optical fibers if using MT-RJ or LC connectors. The connector panel, accepting the Universal Adapter Strips, is located inside the enclosure and swings out (left or right) to give easy access to the cable and splices.

The Fiber*Express* 4U Rack-Mount Patch Panel is a compact enclosure for the interconnection or splicing of optical fiber cables. The low-profile design minimizes required rack space to 178 mm (7 in.). It can be used with ST Type, SC, 568SC, MT-RJ, LC and FC adapter strips (ordered separately).

The Fiber*Express* 2U Rack-Mount Patch Panel offers a high fiber capacity, 96 fibers if using double density MT-RJ or LC adapter strips. The Fiber*Express* 2U comes equipped with a smoked Plexiglass front cover that protects fiber connections while allowing for quick visual inspection.

The Fiber*Express* 3U Rack-Mount Patch Panel can accommodate up to 96 optical fiber connections using MT-RJ or LC connectors. The connector panel is mounted on a sliding drawer for easy access to the back side (cable side) of the panel. The Fiber*Express* 3U Rack-Mount Patch Panel can be used with either optical fiber single-ended patch cords or field-installable connectors. If optical single-ended patch cords are to be used, organizer trays are easily accessible via the removable front access pull-out drawer. (Trays must be ordered separately.)

The Fiber*Express* 3U Rack Mount Patch Panel is a compact enclosure for the cross-connection, interconnection or splicing of optical fiber cables. The low-profile design minimizes required rack space to 127 mm (5 in.). It is compatible with ST Type, SC, 568SC, MT-RJ, LC and FC adapter strips (ordered separately).

Description	Belden Part Number
Fiber*Express* Patch Panels	
Rack Mount Panels	
Rack-Mount Patch Panel 1U*	**AX100041**
Rack-Mount Patch Panel 2U*	**AX100068**
Rack-Mount Patch Panel 3U	**AX100077**
Rack-Mount Patch Panel 4U	**AX100116**

If Single-ended patch cords are to be spliced to the fiber cable, don't forget to order Splice Organizer Trays or Kits. Both these and the Universal Adapter Strips can be ordered in the Fiber*Express* Accessories section.

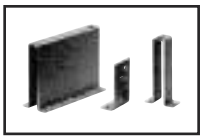
*IMPORTANT: The Fiber*Express* 1U accepts two (2) 203 mm (8 in.) splice trays. The 2U accepts four (4) 203 mm (8 in.) splice trays.

Fiber*Express* Patch Panels

Rack-Mount Accessories and Wall-Mount Patch Panels

Fiber*Express* Rack-Mount Patch Panels 1U and 2U Accessories

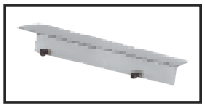
The accessories provide additional panel mounting flexibility for racks, cabinets and cable entry.



AX101799, 127 mm (5 in.) Universal Offset Bracket Kit, for 19 in. and 23 in. Racks 1U

AX100046, Right Side Cable Entry Bracket for 1U

AX101801, 23 in. Rack Universal Extension Bracket for 1U and 2U



AX100045, Front Cover for 1U

Description	Belden Part Number
Fiber*Express* Patch Panels	
Rack Mount Accessories (1U and 2U)	
127 mm (5 in.) Universal Offset Bracket Kit:	
for 19 in. and 23 in. racks (1U), Black	**AX101799**
for 19 in. and 23 in. racks (2U), Black	**AX101797**
23 in. Universal extension bracket, Black	**AX101801**
Right side cable entry bracket (1U), Black	**AX100046**
Right side cable entry bracket (2U), Black	**AX100073**
Front Cover (1U), Smoked Plexiglass	**AX100045**

Fiber*Express* Wall-Mount Patch Panel

The Fiber*Express* Wall-Mount Patch Panel Series is an economical solution for the protection of optical fiber terminations and splices in hostile environments.

Using the Fiber*Express* Universal Adapter Strips (ordered separately), the Wall-Mount Patch Panels allow for flexible and customized patch panel design. They are compatible with most industry standard connections: ST Type, SC, 568SC, MT-RJ, LC and FC.

The Fiber*Express* Wall Mount Patch Panels have an ergonomic design, rugged construction and compact assemblies to effectively protect your optical fiber terminations and splices.

AX100495, Small Wall Mount

Description	Belden Part Number
Fiber*Express* Patch Panels	
Wall-Mount	
Small, Black	**AX100495**
Medium, Black	**AX100540**
Large, Black	**AX100542**

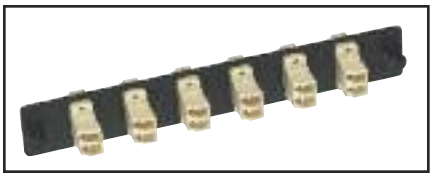
If optical Single-ended patch cords are to be spliced to the fiber cable, don't forget to order Splice Organizer Trays or Kits in Fiber*Express* Accessories section. Universal Adapter Strips can be ordered in Fiber*Express* Patch Panels section.

AX100540, Medium Wall Mount

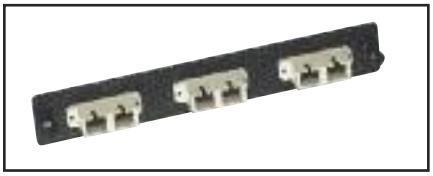
AX100542, Large Wall Mount

Fiber*Express* Accessories for Fiber*Express* Patch Panels

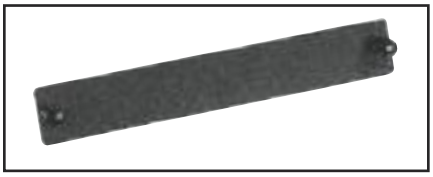
Universal Optical Fiber Adapter Strips and Accessories



AX101729, Adapters loaded with 6 LC Duplex



AX100094, Adapters loaded with 3 SC Duplex



AX100066, Blank Strip

Optical Fiber Adapter Strips

Universal Optical Fiber Adapter Strips are pre-loaded with six (single density) or 12 (double density) adapter sleeves. Two types of adapter sleeves are available: Phosphor Bronze and Zirconia Ceramic. Adapter sleeves are used as the connecting interface between two optical fiber connectors.

A **Blank Adapter Strip** is also available and can be used with any Fiber*Express* Patch Panel to fill in unused adapter strip openings.

Optical Fiber Accessories

Optical Fiber Splice Organizer Kits provide the accessories necessary for installing the Fiber*Express* Patch Panels, as well as other fiber terminals that accommodate the standard Belden organizer tray.

Description	Belden Part Number	
	Phosphor Bronze, Multimode	Zirconia Ceramic, Single-mode
Fiber*Express* Optical Fiber Adapter Strips		
Single Density, Black		
Loaded with 6 ST Type Adapters	**AX100088**	**AX100534**
Loaded with 3 SC Duplex Adapters	**AX100094**	**AX101407**
Loaded with 6 SC Simplex Adapters	**AX100092**	**AX100538**
Loaded with 6 LC Duplex Adapters	**AX101729**	**AX101731**
Loaded with 6 FC Adapters, Multimode/Single-mode	**AX100536**	
MT-RJ, loaded with 6 MT-RJ, Multimode/Single-mode	**AX101115**	
Double Density, Black		
Loaded with 12 ST Type Adapters	**AX100080**	**AX100528**
Loaded with 6 SC Duplex Adapters	**AX100098**	**AX101409**
Loaded with 12 SC Simplex Adapters	**AX100084**	**AX100532**
Loaded with 12 LC Duplex Adapters	**AX101741**	**AX101743**
Loaded with 12 FC Adapters, Multimode/Single-mode	**AX100530**	
MT-RJ, loaded with 12 MT-RJ, Multimode/Single-mode	**AX101117**	
Blank Strip		
Black	**AX100066**	

Universal Optical Fiber Adapter Strips and Accessories (continued)

Description	Belden Part Number
Optical Fiber Splice Organizer Kit	
Splice kit, tray, 203 mm (8 in.)	**A0649869**
Splice kit, tray, 305 mm (12 in.)	**A0318904**
Optical Fiber Splice Tray	
Fusion, 203 mm (8 in.)	**A0335015**
Fusion, 305 mm (12 in.)	**A0316446**
Universal (mechanical or fusion), 203 mm (8 in.)	**AX100079**
Universal (mechanical or fusion), 305 mm (12 in.)	**A0394328**
Tray Cover, 203 mm (8 in.)	**A0394331**
Tray Cover, 305 mm (12 in.)	**A0394330**
Fusion Splice Protection 250 µm to 250 µm, Yellow	**AX101169**
Fusion Splice Protection 900 µm to 250 µm, Blue	**AX101170**
Fusion Splice Protection 900 µm to 900 µm, Green	**AX101171**

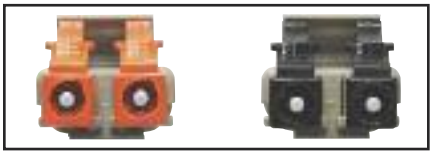
A0649869, Optical Fiber Splice Organizer Kits and Trays

Fiber*Express* Secure/Keyed LC System

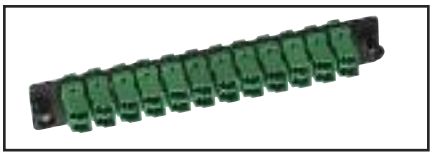
Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors

AX103034, Fiber*Express* Secure/Keyed LC Manager Module

AX102089, Fiber*Express* Secure/Keyed LC Adapter Module



Fiber*Express* Secure/Keyed LC System



AX102120, Fiber*Express* Secure/Keyed LC Adapter Strip

AX102197, Fiber*Express* Secure/Keyed LC Optimax Connector

Fiber*Express* Secure/Keyed LC System

The Fiber*Express* Secure/Keyed LC System allows for physical segregation of networks segments in secure fiber cabling infrastructures. All Secure/ Keyed LC products are available with 12 different keying options each carrying a different color to facilitate network administration. The keying detail inside the connector is totally tamper-resistant and cannot be reproduced inside a standard LC connector to violate the network security. All products comply with the FOCIS 10 standard and optical performance exceeds all industry standards for SFF connectors.

The Secure/Keyed LC Adapter Modules and Adapter Strips can be used in all mounting hardware for workstation area, Consolidation Point or Telecom Room applications.

The Secure/Keyed LC Patch Cords and Pigtails are offered in Multimode 62.5 µm (OM1), 50 µm (OM2) and laser-optimized 50 µm (OM3) for the most demanding network performance. The Secure/Keyed LC Fiber*Express* Manager Modules can be used in 19- and 23-inch Fiber*Express* Manager Shelves to provide a high-density management system of up to 1920 terminated fibers per rack. The Secure/Keyed LC Fiber*Express* Ultra Frames, Bezels and Cassettes can be used with the Fiber*Express* Ultra Rack- and Wall-mount Patch Panels to provide a high-density patching system that is easy to deploy, operate and maintain, while ensuring maximum uptime, uninterrupted availability and superior performance.

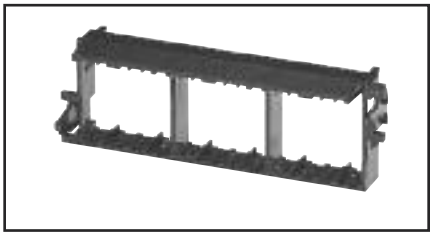
The Secure/Keyed LC Optimax Field Installable Connectors are available in Multimode 50 µm laser-optimized and 62.5 µm fiber versions. They are high-quality connectors that use a ceramic ferrule with a physical contact (PC) polish for Multimode connectors.

Description	Belden Part Number
Fiber*Express* Secure/Keyed LC System	
Duplex Adapter Modules, Keystone-style	
LC Key1, Red	**AX102422**
LC Key2, Green	**AX102423**
LC Key3, Yellow	**AX102424**
LC Key4, Black	**AX102425**
LC Key5, Orange	**AX102426**
LC Key6, Blue	**AX102427**
LC Key7, Violet	**AX103154**
LC Key8, Rose	**AX103155**
LC Key9, Aqua	**AX103156**
LC KeyA, Brown	**AX103157**
LC KeyB, Slate	**AX103158**
LC KeyC, White	**AX103159**

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number			
	Gray Holder	Almond Holder	White Holder	Black Holder
Fiber*Express* Secure/Keyed LC System				
Duplex Adapter Modules, MDVO-style				
LC Key1, Red	AX102089	AX102095	AX102101	AX102107
LC Key2, Green	AX102090	AX102096	AX102102	AX102108
LC Key3, Yellow	AX102091	AX102097	AX102103	AX102109
LC Key4, Black	AX102092	AX102098	AX102104	AX102110
LC Key5, Orange	AX102093	AX102099	AX102105	AX102111
LC Key6, Blue	AX102094	AX102100	AX102106	AX102112
LC Key7, Violet	AX103010	AX103016	AX103022	AX103028
LC Key8, Rose	AX103011	AX103017	AX103023	AX103029
LC Key9, Aqua	AX103012	AX103018	AX103024	AX103030
LC KeyA, Brown	AX103013	AX103019	AX103025	AX103031
LC KeyB, Slate	AX103014	AX103020	AX103026	AX103032
LC KeyC, White	AX103015	AX103021	AX103027	AX103033



Secured/Keyed LC Fiber*Express* Ultra Frame

Secured/Keyed LC Fiber*Express* Ultra Bezel

Description	Belden Part Number	
	12 Fiber	24 Fiber
Fiber*Express* Secure/Keyed LC System		
Adapter Strips		
LC Key1, Red	AX102119	AX102125
LC Key2, Green	AX102120	AX102126
LC Key3, Yellow	AX102121	AX102127
LC Key4, Black	AX102122	AX102128
LC Key5, Orange	AX102123	AX102129
LC Key6, Blue	AX102124	AX102130
LC Key7, Violet	AX103046	AX103052
LC Key8, Rose	AX103047	AX103053
LC Key9, Aqua	AX103048	AX103054
LC KeyA, Brown	AX103049	AX103055
LC KeyB, Slate	AX103050	AX103056
LC KeyC, White	AX103051	AX103057

Secured/Keyed LC Fiber*Express* Ultra Cassette

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number		
	2 m (6 ft.)	3 m (10 ft.)	5 m (16 ft.)
Secure/Keyed Fiber*Express* LC Duplex Patch Cords (continued)			
KeyX-KeyX Multimode, OM1, 62.5 µm			
LC Key1-Key1, Red	**AX201365**	**AX201371**	**AX201377**
LC Key2-Key2, Green	**AX201366**	**AX201372**	**AX201378**
LC Key3-Key3, Yellow	**AX201367**	**AX201373**	**AX201379**
LC Key4-Key4, Black	**AX201368**	**AX201374**	**AX201380**
LC Key5-Key5, Orange	**AX201369**	**AX201375**	**AX201381**
LC Key6-Key6, Blue	**AX201370**	**AX201376**	**AX201382**
LC Key7-Key7, Violet	**AX202940**	**AX202946**	**AX202952**
LC Key8-Key8, Rose	**AX202941**	**AX202947**	**AX202953**
LC Key9-Key9, Aqua	**AX202942**	**AX202948**	**AX202954**
LC KeyA-KeyA, Brown	**AX202943**	**AX202949**	**AX202955**
LC KeyB-KeyB, Slate	**AX202944**	**AX202950**	**AX202956**
LC KeyC-KeyC, White	**AX202945**	**AX202951**	**AX202957**
KeyX-KeyX Multimode, OM2, 50 µm			
LC Key1-Key1, Red	**AX201383**	**AX201389**	**AX201395**
LC Key2-Key2, Green	**AX201384**	**AX201390**	**AX201396**
LC Key3-Key3, Yellow	**AX201385**	**AX201391**	**AX201397**
LC Key4-Key4, Black	**AX201386**	**AX201392**	**AX201398**
LC Key5-Key5, Orange	**AX201387**	**AX201393**	**AX201399**
LC Key6-Key6, Blue	**AX201388**	**AX201394**	**AX201400**
LC Key7-Key7, Violet	**AX202958**	**AX202964**	**AX202970**
LC Key8-Key8, Rose	**AX202959**	**AX202965**	**AX202971**
LC Key9-Key9, Aqua	**AX202960**	**AX202966**	**AX202972**
LC KeyA-KeyA, Brown	**AX202961**	**AX202967**	**AX202973**
LC KeyB-KeyB, Slate	**AX202962**	**AX202968**	**AX202974**
LC KeyC-KeyC, White	**AX202963**	**AX202969**	**AX202975**
KeyX-KeyX Multimode, OM3, 50 µm			
LC Key1-Key1, Red	**AX201401**	**AX201407**	**AX201413**
LC Key2-Key2, Green	**AX201402**	**AX201408**	**AX201414**
LC Key3-Key3, Yellow	**AX201403**	**AX201409**	**AX201415**
LC Key4-Key4, Black	**AX201404**	**AX201410**	**AX201416**
LC Key5-Key5, Orange	**AX201405**	**AX201411**	**AX201417**
LC Key6-Key6, Blue	**AX201406**	**AX201412**	**AX201418**
LC Key7-Key7, Violet	**AX202976**	**AX202982**	**AX202988**
LC Key8-Key8, Rose	**AX202977**	**AX202983**	**AX202989**
LC Key9-Key9, Aqua	**AX202978**	**AX202984**	**AX202990**
LC KeyA-KeyA, Brown	**AX202979**	**AX202985**	**AX202991**
LC KeyB-KeyB, Slate	**AX202980**	**AX202986**	**AX202992**
LC KeyC-KeyC, White	**AX202981**	**AX202987**	**AX202993**

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number		
	2 m (6 ft.)	3 m (10 ft.)	5 m (16 ft.)
Secure/Keyed Fiber*Express* LC Duplex Hybrid Patch Cords (continued)			
KeyX-LCD Multimode, OM1, 62.5 µm			
LC Key1-LCD, Red	**AX201419**	**AX201425**	**AX201431**
LC Key2-LCD, Green	**AX201420**	**AX201426**	**AX201432**
LC Key3-LCD, Yellow	**AX201421**	**AX201427**	**AX201433**
LC Key4-LCD, Black	**AX201422**	**AX201428**	**AX201434**
LC Key5-LCD, Orange	**AX201423**	**AX201429**	**AX201435**
LC Key6-LCD, Blue	**AX201424**	**AX201430**	**AX201436**
LC Key7-LCD, Violet	**AX202994**	**AX203000**	**AX203006**
LC Key8-LCD, Rose	**AX202995**	**AX203001**	**AX203007**
LC Key9-LCD, Aqua	**AX202996**	**AX203002**	**AX203008**
LC KeyA-LCD, Brown	**AX202997**	**AX203003**	**AX203009**
LC KeyB-LCD, Slate	**AX202998**	**AX203004**	**AX203010**
LC KeyC-LCD, White	**AX202999**	**AX203005**	**AX203011**
KeyX-LCD Multimode, OM2, 50 µm			
LC Key1-LCD, Red	**AX201437**	**AX201443**	**AX201449**
LC Key2-LCD, Green	**AX201438**	**AX201444**	**AX201450**
LC Key3-LCD, Yellow	**AX201439**	**AX201445**	**AX201451**
LC Key4-LCD, Black	**AX201440**	**AX201446**	**AX201452**
LC Key5-LCD, Orange	**AX201441**	**AX201447**	**AX201453**
LC Key6-LCD, Blue	**AX201442**	**AX201448**	**AX201454**
LC Key7-LCD, Violet	**AX203012**	**AX203018**	**AX203024**
LC Key8-LCD, Rose	**AX203013**	**AX203019**	**AX203025**
LC Key9-LCD, Aqua	**AX203014**	**AX203020**	**AX203026**
LC KeyA-LCD, Brown	**AX203015**	**AX203021**	**AX203027**
LC KeyB-LCD, Slate	**AX203016**	**AX203022**	**AX203028**
LC KeyC-LCD, White	**AX203017**	**AX203023**	**AX203029**
KeyX-LCD Multimode, OM3, 50 µm			
LC Key1-LCD, Red	**AX201455**	**AX201461**	**AX201467**
LC Key2-LCD, Green	**AX201456**	**AX201462**	**AX201468**
LC Key3-LCD, Yellow	**AX201457**	**AX201463**	**AX201469**
LC Key4-LCD, Black	**AX201458**	**AX201464**	**AX201470**
LC Key5-LCD, Orange	**AX201459**	**AX201465**	**AX201471**
LC Key6-LCD, Blue	**AX201460**	**AX201466**	**AX201472**
LC Key7-LCD, Violet	**AX203030**	**AX203036**	**AX203042**
LC Key8-LCD, Rose	**AX203031**	**AX203037**	**AX203043**
LC Key9-LCD, Aqua	**AX203032**	**AX203038**	**AX203044**
LC KeyA-LCD, Brown	**AX203033**	**AX203039**	**AX203045**
LC KeyB-LCD, Slate	**AX203034**	**AX203040**	**AX203046**
LC KeyC-LCD, White	**AX203035**	**AX203041**	**AX203047**

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number		
	2 m (6 ft.)	3 m (10 ft.)	5 m (16 ft.)
Secure/Keyed Fiber*Express* LC Duplex Hybrid Patch Cords (continued)			
KeyX-SCD Multimode, OM1, 62.5 µm			
LC Key1-SCD, Red	**AX201473**	**AX201479**	**AX201485**
LC Key2-SCD, Green	**AX201474**	**AX201480**	**AX201486**
LC Key3-SCD, Yellow	**AX201475**	**AX201481**	**AX201487**
LC Key4-SCD, Black	**AX201476**	**AX201482**	**AX201488**
LC Key5-SCD, Orange	**AX201477**	**AX201483**	**AX201489**
LC Key6-SCD, Blue	**AX201478**	**AX201484**	**AX201490**
LC Key7-SCD, Violet	**AX203048**	**AX203054**	**AX203060**
LC Key8-SCD, Rose	**AX203049**	**AX203055**	**AX203061**
LC Key9-SCD, Aqua	**AX203050**	**AX203056**	**AX203062**
LC KeyA-SCD, Brown	**AX203051**	**AX203057**	**AX203063**
LC KeyB-SCD, Slate	**AX203052**	**AX203058**	**AX203064**
LC KeyC-SCD, White	**AX203053**	**AX203059**	**AX203065**
KeyX-SCD Multimode, OM2, 50 µm			
LC Key1-SCD, Red	**AX201491**	**AX201497**	**AX201503**
LC Key2-SCD, Green	**AX201492**	**AX201498**	**AX201504**
LC Key3-SCD, Yellow	**AX201493**	**AX201499**	**AX201505**
LC Key4-SCD, Black	**AX201494**	**AX201500**	**AX201506**
LC Key5-SCD, Orange	**AX201495**	**AX201501**	**AX201507**
LC Key6-SCD, Blue	**AX201496**	**AX201502**	**AX201508**
LC Key7-SCD, Violet	**AX203066**	**AX203072**	**AX203078**
LC Key8-SCD, Rose	**AX203067**	**AX203073**	**AX203079**
LC Key9-SCD, Aqua	**AX203068**	**AX203074**	**AX203080**
LC KeyA-SCD, Brown	**AX203069**	**AX203075**	**AX203081**
LC KeyB-SCD, Slate	**AX203070**	**AX203076**	**AX203082**
LC KeyC-SCD, White	**AX203071**	**AX203077**	**AX203083**
KeyX-SCD Multimode, OM3, 50 µm			
LC Key1-SCD, Red	**AX201509**	**AX201515**	**AX201521**
LC Key2-SCD, Green	**AX201510**	**AX201516**	**AX201522**
LC Key3-SCD, Yellow	**AX201511**	**AX201517**	**AX201523**
LC Key4-SCD, Black	**AX201512**	**AX201518**	**AX201524**
LC Key5-SCD, Orange	**AX201513**	**AX201519**	**AX201525**
LC Key6-SCD, Blue	**AX201514**	**AX201520**	**AX201526**
LC Key7-SCD, Violet	**AX203084**	**AX203090**	**AX203096**
LC Key8-SCD, Rose	**AX203085**	**AX203091**	**AX203097**
LC Key9-SCD, Aqua	**AX203086**	**AX203092**	**AX203098**
LC KeyA-SCD, Brown	**AX203087**	**AX203093**	**AX203099**
LC KeyB-SCD, Slate	**AX203088**	**AX203094**	**AX203100**
LC KeyC-SCD, White	**AX203089**	**AX203095**	**AX203101**

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number		
	Multimode, OM1, 62.5 µm 2 m (6 ft.)	Multimode, OM2, 50 µm 2 m (6 ft.)	Multimode, OM3, 50 µm 2 m (6 ft.)
Secure/Keyed Fiber*Express* LC Pigtails			
KeyX-Open Multimode			
LC Key1-Open, Red	**AX201527**	**AX201533**	**AX201539**
LC Key2-Open, Green	**AX201528**	**AX201534**	**AX201540**
LC Key3-Open, Yellow	**AX201529**	**AX201535**	**AX201541**
LC Key4-Open, Black	**AX201530**	**AX201536**	**AX201542**
LC Key5-Open, Orange	**AX201531**	**AX201537**	**AX201543**
LC Key6-Open, Blue	**AX201532**	**AX201538**	**AX201544**
LC Key7-Open, Violet	**AX203102**	**AX203108**	**AX203114**
LC Key8-Open, Rose	**AX203103**	**AX203109**	**AX203115**
LC Key9-Open, Aqua	**AX203104**	**AX203110**	**AX203116**
LC KeyA-Open, Brown	**AX203105**	**AX203111**	**AX203117**
LC KeyB-Open, Slate	**AX203106**	**AX203112**	**AX203118**
LC KeyC-Open, White	**AX203107**	**AX203113**	**AX203119**

Description	Belden Part Number	
	12 Fiber	24 Fiber
Secure/Keyed LC Fiber*Express* Manager Modules		
Modules		
LC Key1, Red	**AX102113**	**AX102310**
LC Key2, Green	**AX102114**	**AX102311**
LC Key3, Yellow	**AX102115**	**AX102312**
LC Key4, Black	**AX102116**	**AX102313**
LC Key5, Orange	**AX102117**	**AX102314**
LC Key6, Blue	**AX102118**	**AX102315**
LC Key7, Violet	**AX103034**	**AX103040**
LC Key8, Rose	**AX103035**	**AX103041**
LC Key9, Aqua	**AX103036**	**AX103042**
LC KeyA, Brown	**AX103037**	**AX103043**
LC KeyB, Slate	**AX103038**	**AX103044**
LC KeyC, White	**AX103039**	**AX103045**

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number		
	6 Fiber	12 Fiber	24 Fiber
Fiber*Express* Ultra System			
Secure/Keyed LC Frames, Multimode			
LC Key1, Red	AX103391	AX103412	AX103427
LC Key2, Green	AX103392	AX103413	AX103428
LC Key3, Yellow	AX103393	AX103414	AX103429
LC Key4, Black	AX103394	AX103415	AX103430
LC Key5, Orange	AX103395	AX103416	AX103431
LC Key6, Blue	AX103396	AX103417	AX103432
LC Key7, Violet	AX103397	AX103418	AX103433
LC Key8, Rose	AX103398	AX103419	AX103434
LC Key9, Aqua	AX103399	AX103420	AX103435
LC KeyA, Brown	AX103400	AX103421	AX103436
LC KeyB, Slate	AX103401	AX103422	AX103437
LC KeyC, White	AX103402	AX103423	AX103438

Description	Belden Part Number	
	1-Adapter Bezel	2-Adapter Bezel
Fiber*Express* Ultra System		
Secure/Keyed LC Bezels, Multimode		
LC Key1, Red	AX103292	AX103304
LC Key2, Green	AX103293	AX103305
LC Key3, Yellow	AX103294	AX103306
LC Key4, Black	AX103295	AX103307
LC Key5, Orange	AX103296	AX103308
LC Key6, Blue	AX103297	AX103309
LC Key7, Violet	AX103298	AX103310
LC Key8, Rose	AX103299	AX103311
LC Key9, Aqua	AX103300	AX103312
LC KeyA, Brown	AX103301	AX103313
LC KeyB, Slate	AX103302	AX103314
LC KeyC, White	AX103303	AX103315

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number		
	6 Fiber	12 Fiber	24 Fiber
Fiber*Express* Ultra System			
Secure/Keyed LC Cassettes, Multimode			
MPO-0M1, K1 Red	**AX103626**	**AX103645**	**AX103661**
MPO-0M1, K2 Green	**AX103627**	**AX103646**	**AX103662**
MPO-0M1, K3 Yellow	**AX103628**	**AX103647**	**AX103663**
MPO-0M1, K4 Black	**AX103629**	**AX103648**	**AX103664**
MPO-0M1, K5 Orange	**AX103630**	**AX103649**	**AX103665**
MPO-0M1, K6 Blue	**AX103631**	**AX103650**	**AX103666**
MPO-0M1, K7 Violet	**AX103632**	**AX103651**	**AX103667**
MPO-0M1, K8 Rose	**AX103633**	**AX103652**	**AX103668**
MPO-0M1, K9 Aqua	**AX103634**	**AX103653**	**AX103669**
MPO-0M1, KA Brown	**AX103635**	**AX103654**	**AX103670**
MPO-0M1, KB Slate	**AX103636**	**AX103655**	**AX103671**
MPO-0M1, KC White	**AX103637**	**AX103656**	**AX103672**
MPO-0M3, K1 Red	**AX103698**	**AX103717**	**AX103733**
MPO-0M3, K2 Green	**AX103699**	**AX103718**	**AX103734**
MPO-0M3, K3 Yellow	**AX103700**	**AX103719**	**AX103735**
MPO-0M3, K4 Black	**AX103701**	**AX103720**	**AX103736**
MPO-0M3, K5 Orange	**AX103702**	**AX103721**	**AX103737**
MPO-0M3, K6 Blue	**AX103703**	**AX103722**	**AX103738**
MPO-0M3, K7 Violet	**AX103704**	**AX103723**	**AX103739**
MPO-0M3, K8 Rose	**AX103705**	**AX103724**	**AX103740**
MPO-0M3, K9 Aqua	**AX103706**	**AX103725**	**AX103741**
MPO-0M3, KA Brown	**AX103707**	**AX103726**	**AX103742**
MPO-0M3, KB Slate	**AX103708**	**AX103727**	**AX103743**
MPO-0M3, KC White	**AX103709**	**AX103728**	**AX103744**

Fiber*Express* Secure/Keyed LC System

Adapter Modules, Adapter Strips, Patch Cords, Pigtails, Fiber*Express* Manager Modules and Optimax Field-Installable Connectors (continued)

Description	Belden Part Number			
	12 Fiber, Multimode, OM1, 62.5 µm	12 Fiber, Multimode, OM3, 50 µm	24 Fiber, Multimode, OM1, 62.5 µm	24 Fiber, Multimode, OM3, 50 µm
Fiber*Express* Secure/Keyed LC Series Manager				
Pre-terminated Modules, MPO-keyed LC				
LC Key1, Red	AX102362	AX102368	AX102374	AX102380
LC Key2, Green	AX102363	AX102369	AX102375	AX102381
LC Key3, Yellow	AX102364	AX102370	AX102376	AX102382
LC Key4, Black	AX102365	AX102371	AX102377	AX102383
LC Key5, Orange	AX102366	AX102372	AX102378	AX102384
LC Key6, Blue	AX102367	AX102373	AX102379	AX102385
LC Key7, Violet	AX103180	AX103186	AX103192	AX103198
LC Key8, Rose	AX103181	AX103187	AX103193	AX103199
LC Key9, Aqua	AX103182	AX103188	AX103194	AX103200
LC KeyA, Brown	AX103183	AX103189	AX103195	AX103201
LC KeyB, Slate	AX103184	AX103190	AX103196	AX103202
LC KeyC, White	AX103185	AX103191	AX103197	AX103203

Description	Belden Part Number	
	Multimode 50 µm for 900 µm Buffered Fiber Only	Multimode 62.5 µm for 900 µm Buffered Fiber Only
Fiber*Express* Secure/Keyed LC Series Connectors		
Optimax Connectors		
LC Key1, Red	AX102197	AX102203
LC Key2, Green	AX102198	AX102204
LC Key3, Yellow	AX102199	AX102205
LC Key4, Black	AX102200	AX102206
LC Key5, Orange	AX102201	AX102207
LC Key6, Blue	AX102202	AX102208
LC Key7, Violet	AX103174	AX103168
LC Key8, Rose	AX103175	AX103169
LC Key9, Aqua	AX103176	AX103170
LC KeyA, Brown	AX103177	AX103171
LC KeyB, Slate	AX103178	AX103172
LC KeyC, White	AX103179	AX103173
LC Fiber*Express* Optimax Accessory Kit for Jacketed Fiber		
Kit contains 2 mm & 3 mm boots and crimp sleeves	AX101984	

Fiber*Express* Outlets
MediaFlex® Plates and Inserts

MediaFlex Plates are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Plates can be mounted over standard NEMA type outlet boxes and rings to provide support for a variety of MediaFlex Adapters and Inserts. The fully modular construction combined with the front access design provides extensive configuration flexibility for current and future network needs. MediaFlex Plates are available in Single Gang and Double Gang configurations.

The Double Gang faceplate comes with a stand-off ring included in the package. This ring allows for easy mounting with virtually any industry electrical box or mud/adapter rings, therefore providing added installation flexibility.

Each plate has the capacity of up to 6 ports per Single Gang and 12 ports per Double Gang.

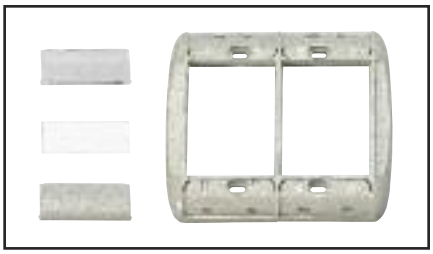
MediaFlex Surface Adapter Boxes are one part of the comprehensive line of plates and inserts that snap together to create a full line of modular workstation outlets.

MediaFlex Surface Adapter Boxes can be mounted over standard NEMA type outlet boxes and rings to provide support for the MediaFlex plates. The MediaFlex Surface Adapter Boxes are available as a Double Gang configuration. The Double Gang box allows more room for cable management and bend radius control.

MediaFlex MDVO-style Inserts are available in a 2-port configuration in both Flush and Angled versions. They are compatible with all GigaFlex and MDVO Modules (EZ-MDVO and Multimedia). The inserts are two units high for the flush version and three units high for the angled version. Therefore three flush inserts or two angled inserts are required to fully populate a Single Gang MediaFlex Plate.

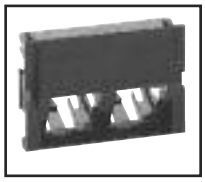
MediaFlex Multimedia Inserts provide optimum flexibility in configuring multimedia workstation outlets that respond to any present or future network needs. MediaFlex Multimedia Inserts along with other MediaFlex Inserts allow for easy configuration of outlets. All inserts are front loaded and easily snapped in and out of the MediaFlex Plates for easy installation and maintenance.

MediaFlex Multimedia Inserts are available in Angled versions only in order to allow for proper management of cable bend radius. The inserts are three units high, therefore two inserts are required to fully populate a Single Gang faceplate and four inserts will fully populate a Double Gang faceplate.

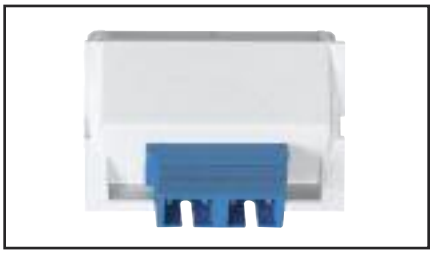


AX101869, MediaFlex Plate, Double Gang

AX101874, MediaFlex Adapter Box, Double Gang



AX101756, MediaFlex MDVO (style) Insert, 2-port, Angled



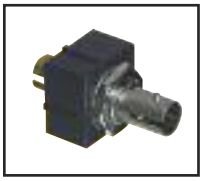
AX101937, MediaFlex SC Duplex Insert, Angled

Description	Belden Part Number					
	Gray	Almond	Elec. White	Black	White	Ivory
Fiber*Express* Outlets						
MediaFlex Plate						
Single Gang	AX101745	AX101746	AX101747	AX101748	AX102608	AX102569
Double Gang	AX101869	AX101870	AX101871	AX101872	AX102609	AX102570
MediaFlex Adapter Box						
Single Gang	AX102480	AX102481	AX102482	AX102483	AX102484	AX102485
Double Gang	AX101873	AX101874	AX101875	AX101876	AX102610	AX102571
MediaFlex MDVO (style) Insert						
2-port, Flush, bag of 10 units	AX101749	AX101750	AX101751	AX101752	AX102612	AX102572
2-port, Angled, bag of 10 units	AX101753	AX101754	AX101755	AX101756	AX102613	AX102573
MediaFlex SC Duplex						
SC Duplex Single-mode	AX101935	AX101936	AX101937	AX101938	AX102619	AX102649
SC Duplex Multimode	AX101939	AX101940	AX101941	AX101942	AX102620	AX102650

Fiber*Express* Outlets

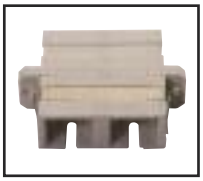
MDVO Multimedia Outlet Boxes and Modules and Multi-User Outlet Boxes

A0643205, MDVO Multimedia Outlet Box, shown here as terminated



A0407010, MDVO ST Type Fiber Module

AX101467, MT-RJ Adapter



A0649254, SC Duplex Adapter

AX100222, Multi-User Outlet Box, shown here with modules

MDVO Multimedia Outlet Box

The MDVO Multimedia Outlet Box brings unique versatility for multimedia work area installations. The box design provides cable management and helps maintain cable bend radius. The low profile design and side-entry of the outlet box offers better protection for patch cords. The outlet box can accept up to six EZ-MDVO, GigaFlex or MDVO Multimedia Modules or three SC Duplex adapters.

The MDVO Multimedia Outlet Box can be mounted directly on the wall or attached to standard electrical boxes. Included with the MDVO Multimedia box are three SC Duplex Mounting bezels and three MDVO Adapters.

MDVO Multimedia Modules

MDVO Multimedia Modules address audio/video and fiber applications. Fiber modules are available for LC Duplex, SC Simplex, ST Type multimode and MT-RJ multimode and single-mode connections. The SC Duplex Adapter is a fiber adapter sleeve with flanges that mounts into the SC Duplex mounting bezel (included in the MDVO Multimedia Outlet box). Audio/video modules are available for SVHS, RCA, BNC and Video F connections.

Multi-User Outlet Box

The Multi-User Outlet Box is a versatile box that can be used in many different applications. The outlet box can accommodate up to 24 connections of any type: UTP, fiber or coax. The outlet box is ideal for use as a multi-user telecommunications assembly, or simply as a high-density multimedia telecommunications outlet. The Multi-User Outlet Box can also be used as a wall mounted patch panel in confined areas, such as shallow rooms and cabinets.

Description	Belden Part Number			
	Gray	Almond	White	Black
Fiber*Express* Outlets				
MDVO Multimedia Outlet Box				
6-port	A0643205	A0643206	A0643207	A0643208
Please note that SC Duplex adapters must be ordered separately (A0649254).				
MDVO Multimedia Module				
LC Duplex Multimode	AX102209	AX102210	AX102211	AX102212
LC Duplex Single-mode	AX102213	AX102214	AX102215	AX102216
SC Simplex, Multimode, Blue insert	A0407003	A0407004	A0407005	A0407006
SC Duplex Adapter, Multimode	A0649254			
ST Type, Multimode	A0407007	A0407008	A0407009	A0407010
MT-RJ, Multimode	AX101467			
MT-RJ, Single-mode, Blue	AX101466			
Custom multimedia connectors are also available. Please contact Customer Service for more details.				
Multi-User Outlet Box				
24-port	AX100219	AX100220	AX100221	AX100222
Note: A complete offering of Keystone-style connectors is available. Please contact Customer Service for more information.				

Cable Selection Guide
Introduction

The Belden line of Optical Fiber Cables represents a selection of the best optical fiber cable products offered by the consolidated resources of the Belden organization. The unmatched resources of Belden have now generated a complete line of indoor and outdoor cable products in tight buffered and loose tube constructions. This offering now expands the applications available for Belden optical fiber cable.

Customer Service

Most of our optical fiber cables are available from stock. Many of these are available off-the-shelf from distributors. If you have a new or unusual application, or you cannot find a optical fiber cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1 for additional information.

Cable Selection Guide

Optical Fiber

Fiber Selection Chart

Type	Fiber Size (µ)	Standards Compliance	Link Length (m)	Data Rate (Gb)
Multimode	50/125	TIA/EIA-568-C.3 ISO 11801 OM3	300	10
	50/125	TIA/EIA-568-C.3	600	1
	62.5/125	TIA/EIA-568-C.3	300	1
Single-mode	—	ITU G.652.c/d†	—	—

† Zero or Low water peak fiber with advantages for CWDM applications

Color Code Charts

Jacket Color Chart

Cable Type	Jacket Color
Loose Tube & Outside Plant Cables	Black
Industrial Tray Cables	Orange
Tight Buffered Cables	
Multimode OM1, OM2	Orange
Multimode OM3	Aqua
Single-mode Enhanced	Yellow

Nonstandard jacket colors are available on request.

Fiber Sub-unit Color Code Chart*

Fiber/Tube No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White

Fiber/Tube No.	Color
7	Red
8	Black
9	Yellow
10	Violet
11	Rose
12	Aqua

*Per TIA/EIA 598-B

Optical Specifications

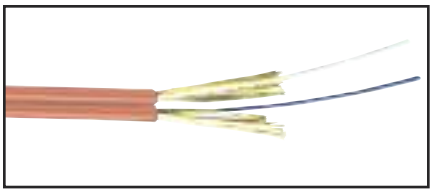
Glass Type	Multimode, OM1, 62.5 µm Std./1 Gb	Multimode, OM2, 50 µm Std./1 Gb	Multimode, OM3, 50 µm 10 Gb - 300 m	Single-mode Enhanced, OS2[5]
Operating Wavelength (nm)	850/1300	850/1300	850/1300	1300/1550
Min. OFL[1] Bandwidth (MHz-km)	200/600	500/800	1500/500	—
Max. Attenuation Loose Tube (dB/km)	3.5/1.2	3.5/1.2	3.5/1.2	0.40/0.30
Max. Attenuation Tight Buffered[2] (dB/km)	3.50/1.20	3.50/1.5	3.0/1.2	0.50/0.50
1 Gb Ethernet Min. Link Length (meters S/L[3])	300/550	600/600	900[4]/550	—/5000
10 Gb Ethernet Min. Link Length (meters S/L[3])	32/—	82/—	300/—	—/10,000

[1] OFL = Overfilled Launch
[2] Max. Attenuation for Tight Buffered, Ribbon, Micro-Loose Tube and Loose Tube Plenum Cables
[3] S/L = Short wavelength (850 nm) / Long wavelength (1310 nm)
[4] >2000 meters for engineered links
[5] Low water peak Single-mode suitable for CWDm use complies with ITU G.652.c/d

Other performance levels are available on request. Contact Customer Service for more information.

Interconnect Cable — Simplex and Duplex

Tight Buffer — Riser & Plenum Rated



Duplex Optical Fiber Interconnect Cable

Applications

- Patch panels
- Workstation equipment connections
- Horizontal distribution in open office environments

Product Description

Interconnect Cables are designed for low fiber-count premises environments. They are small and very flexible, making them ideal for confined spaces. Their aesthetic appearance makes these cables suitable for use in open office environments. Available in 1 or 2 fibers. One sub-unit is marked to permit easy identification of transmit and receive fibers. Length markings to facilitate installation.

Jacket Material	Thermoplastic
Tight Buffer	Thermoplastic
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per TIA/EIA 598-B, see page 39
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gb	Orange
50/125 µm / 10 Gb	Aqua

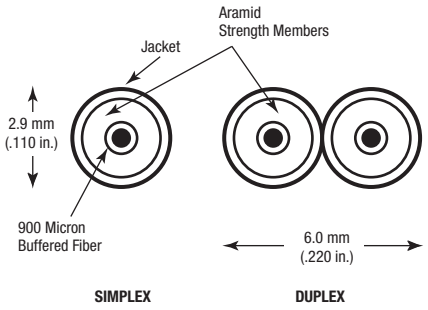
Ratings

Riser	OFNR
Plenum	OFNP

Specifications

Temperature Range	
Storage	-40 to +75°C
Operating/Installation	0 to +70°C
Min. Bend Radius	
Installation	18 x OD
Long Term	11 x OD
Optical Specifications	see page 39

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Interconnect Cable Series										
Riser (NEC/CEC OFNR/OFN FT.4)										
1	B97112	B9A001	B9C001	B9W001	0.110	2.9	6	9	119	530
2	B96915	B9A002	B9C002	B9W002	0.11 x 0.22	2.9 x 6.0	10	15	239	1063
Plenum (NEC/CEC OFNP/OFN FT.6)										
1	B98086	B9A003	B9C003	B9W003	0.110	2.9	6	9	119	530
2	B96919	B9A004	B9C004	B9W004	0.11 x 0.22	2.9 x 6.0	12	18	239	1063

Distribution Cable

Tight Buffer — Indoor and Indoor/Outdoor Riser, Plenum & LSZH Rated

Applications

- Low to high fiber count requirements
- In-building backbone
- Fiber-to-the-desk applications
- Computer room

Product Description

Flexible thermoplastic jacket provides excellent handling characteristics. Fibers and cable sub-units are color coded for easy identification. Length markings in meters for easy determination of cable length. Full dielectric construction, no grounding required. For Riser offering, MSHA approved cables are available.

Jacket Material	Thermoplastic
Tight Buffer	Thermoplastic
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per TIA/EIA 598-B, see page 39
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gb	Orange
50/125 µm / 10 Gb	Aqua

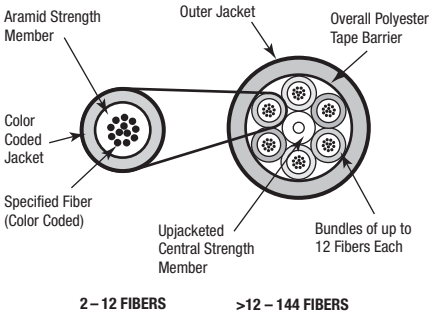
Ratings

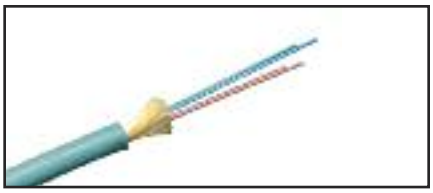
Riser	
UL Type	OFNR
cUL Type	OFN FT.4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT.6
Flame Resistance	NFPA 262
Low Smoke Zero Halogen	
UL Type	OFNR
cUL Type	OFN FT.4
Flame Resistance	UL 1666

Specifications

Temperature Range	
Storage	-40 to +75°C
Operating/Installation	0 to +70°C
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 39

Fiber Bundle Detail





Optical Fiber Distribution Cable

Distribution Cable

Tight Buffer — Riser, Plenum & LSZH Rated

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Distribution Cable Series										
Riser (NEC/CEC OFNR/OFN FT.4)										
2	B9B037	B9A037	B9C037	B9W037	0.190	4.83	13	19	180	801
4	B9B038	B9A038	B9C038	B9W038	0.190	4.83	17	25	195	867
6	B9B039	B9A039	B9C039	B9W039	0.170	4.40	12	17	286	1272
8	B9B040	B9A040	B9C040	B9W040	0.190	4.80	13	19	239	1063
12	B9B042	B9A042	B9C042	B9W042	0.220	5.59	17	25	239	1063
24	B9B601*	B9A601*	B9C601*	B9W601*	0.550	13.97	121	180	390	1735
24	B9B602	B9A602	B9C602	B9W602	0.496	12.60	83	124	960	4270
36	B9B604	B9A604	B9C604	B9W604	0.620	15.60	147	220	1074	4779
48	B9B606	B9A606	B9C606	B9W606	0.610	15.40	120	180	956	4254
72	B9B609	B9A609	B9C609	B9W609	0.760	19.30	184	275	1434	6381
96	B9B622	B9A622	B9C622	B9W622	0.900	22.80	281	420	1912	8508
144	B9B619	B9A619	B9C619	B9W619	1.000	25.40	288	430	2868	12,762
Riser (NEC/CEC OFNR/OFN FT.4) Indoor Outdoor										
2	B9B037T	B9A037T	B9C037T	B9W037T	0.19	4.8	14	21	303	1350
4	B9B038T	B9A038T	B9C038T	B9W038T	0.19	4.8	15	23	303	1350
6	B9B039T	B9A039T	B9C039T	B9W039T	0.21	5.3	19	28	303	1350
8	B9B040T	B9A040T	B9C040T	B9W040T	0.22	5.6	23	33	303	1350
12	B9B042T	B9A042T	B9C042T	B9W042T	0.24	6.0	26	38	303	1350
24	B9B601T	B9A601T	B9C601T	B9W601T	0.67	16.9	169	252	1078	4800
24	B9B602T*	B9A602T*	B9C602T*	B9W602T*	0.33	0.3	46	69	600	2670
36	B9B604T	B9A604T	B9C604T	B9W604T	0.67	16.9	178	265	1348	6000
48	B9B606T	B9A606T	B9C606T	B9W606T	0.67	16.9	187	278	1618	7200
72	B9B609T	B9A609T	B9C609T	B9W609T	0.81	20.7	233	346	2360	10,500
Plenum (NEC/CEC OFNP/OFN FT.6)										
2	B9B043	B9A043	B9C043	B9W043	0.190	4.83	13	19	180	801
4	B9B044	B9A044	B9C044	B9W044	0.190	4.83	17	25	195	867
6	B9B045	B9A045	B9C045	B9W045	0.170	4.40	12	17	286	1272
8	B9B046	B9A046	B9C046	B9W046	0.190	4.80	13	19	239	1063
12	B9B048	B9A048	B9C048	B9W048	0.220	5.59	17	25	239	1063
24	B9B611*	B9A611*	B9C611*	B9W611*	0.550	13.97	121	180	390	1735
24	B9B612	B9A612	B9C612	B9W612	0.496	12.60	83	124	960	4270
36	B9B614	B9A614	B9C614	B9W614	0.620	15.60	147	220	1074	4779
48	B9B616	B9A616	B9C616	B9W616	0.610	15.40	120	180	956	4254
72	B9B620	B9A620	B9C620	B9W620	0.760	19.30	184	275	1434	6381
96	B9B623	B9A623	B9C623	B9W623	0.900	22.80	281	420	1912	8508
144	B9B621	B9A621	B9C621	B9W621	1.000	25.40	288	430	2868	12,762

Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.

*Single jacket design.

For product details on the Indoor/Outdoor fiber cables, contact **1.800.BELDEN.1** or **www.belden.com**.

Distribution Cable

Tight Buffer — Riser, Plenum & LSZH Rated (continued)

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Distribution Cable Series										
Plenum (NEC/CEC OFNP/OFN FT.6) Indoor Outdoor										
2	**B9B043T**	**B9A043T**	**B9C043T**	**B9W043T**	0.19	4.8	18	27	243	1082
4	**B9B044T**	**B9A044T**	**B9C044T**	**B9W044T**	0.19	4.8	18	27	243	1082
6	**B9B045T**	**B9A045T**	**B9C045T**	**B9W045T**	0.22	5.5	22	33	243	1082
8	**B9B046T**	**B9A046T**	**B9C046T**	**B9W046T**	0.24	6.0	26	38	388	1726
12	**B9B048T**	**B9A048T**	**B9C048T**	**B9W048T**	0.26	7.0	34	50	388	1726
24	**B9B611T***	**B9A611T***	**B9C611T***	**B9W611T***	0.33	8.5	54	80	398	1744
LSZH (NEC/CEC OFNR/OFN FT.4)										
2	**B9B100**	**B9A100**	**B9C100**	**B9W100**	0.184	4.70	15	22	180	800
4	**B9B101**	**B9A101**	**B9C101**	**B9W101**	0.200	5.10	17	25	195	867
6	**B9B102**	**B9A102**	**B9C102**	**B9W102**	0.220	5.60	21	31	270	1201
8	**B9B103**	**B9A103**	**B9C103**	**B9W103**	0.235	6.00	24	36	270	1201
12	**B9B104**	**B9A104**	**B9C104**	**B9W104**	0.255	6.50	29	43	300	1334
16	**B9B105**	**B9A105**	**B9C105**	**B9W105**	0.347	8.80	43	63	315	1400
24	**B9B107**	**B9A107**	**B9C107**	**B9W107**	0.386	9.80	54	79	450	2000
36	**B9B111**	**B9A111**	**B9C111**	**B9W111**	0.798	20.00	214	313	1619	7200
48	**B9B112**	**B9A112**	**B9C112**	**B9W112**	0.835	21.20	237	347	1619	7200
72	**B9B114**	**B9A114**	**B9C114**	**B9W114**	0.883	22.40	270	395	1619	7200
96	**B9B116**	**B9A116**	**B9C116**	**B9W116**	0.973	24.70	364	532	1619	7200
144	**B9B120**	**B9A120**	**B9C120**	**B9W120**	1.087	27.60	384	561	1619	7200

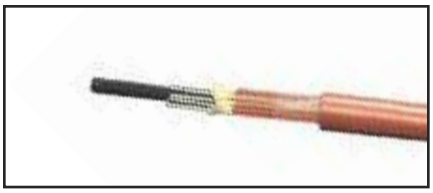
Construction for LSZH cables differs from the drawing. Alternative fiber counts are available.

*Single jacket design.

For product details on the Indoor/Outdoor fiber cables, contact **1.800.BELDEN.1** or **www.belden.com**.

Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated



Optical Fiber Breakout Cable

Applications

- Low to medium fiber count requirements
- In-building backbone or horizontal deployment
- Office wiring
- Factory floor automation and harsh environment installations

Product Description

Full dielectric construction, no grounding required. Available with 2 to 36 fibers. Fiber subunits are color coded for easy identification. Length markings in meters for easy determination of cable length. For Riser offering, MSHA approved cables are available.

Outer Jacket Material	Thermoplastic
Sub-unit Jacket Material	Thermoplastic
Tight Buffer	Thermoplastic
Strength Member	Aramid Yarn
Color Code (Tight Buffer)	Per TIA/EIA 598-B, See page 39
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gb	Orange
50/125 µm / 10 Gb	Aqua

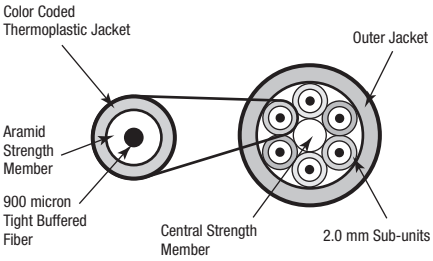
Ratings

Riser	OFNR
Plenum	OFNP
Low Smoke Zero Halogen	OFNR

Specifications

Temperature Range	
Storage	-40 to +75°C
Operating/Installation	0 to +70°C
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Breakout Cable Series										
Riser (NEC/CEC OFNR/OFN FT.4)										
2	B9B005	B9A005	B9C005	B9W005	0.335	8.50	44	65	448	2000
4	B9B006	B9A006	B9C006	B9W006	0.330	8.50	44	65	448	2000
6	B9B007	B9A007	B9C007	B9W007	0.400	10.10	64	95	674	3000
8	B9B008	B9A008	B9C008	B9W008	0.460	11.60	84	125	899	4000
10	B9B009	B9A009	B9C009	B9W009	0.580	14.70	138	205	1398	6000
12	B9B010	B9A010	B9C010	B9W010	0.580	14.70	138	205	1398	6000
18	B9B011	B9A011	B9C011	B9W011	0.587	14.90	138	205	1398	6000
24	B9B012	B9A012	B9C012	B9W012	0.650	16.60	118	175	600	2670
Plenum (NEC/CEC OFNP/OFN FT.6)										
2	B9B013	B9A013	B9C013	B9W013	0.354	6.57	57	85	448	2000
4	B9B014	B9A014	B9C014	B9W014	0.360	6.68	57	45	448	2000
6	B9B015	B9A015	B9C015	B9W015	0.420	7.85	79	61	674	3000
8	B9B016	B9A016	B9C016	B9W016	0.480	8.53	105	82	899	4000
10	B9B017	B9A017	B9C017	B9W017	0.610	9.93	169	97	1398	6000
12	B9B018	B9A018	B9C018	B9W018	0.610	9.93	169	97	1398	6000
18	B9B019	B9A019	B9C019	B9W019	0.587	14.90	138	205	1398	6000
24	B9B020	B9A020	B9C020	B9W020	0.650	16.60	118	175	600	2670

Breakout Style Cable

Tight Buffer — Indoor Riser, Plenum & LSZH Rated (continued)

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
LSZH (NEC/CEC OFNR/OFN FT.4)										
2	**B9B130**	**B9A130**	**B9C130**	**B9W130**	0.290	7.37	39	57	270	1200
4	**B9B131**	**B9A131**	**B9C131**	**B9W131**	0.351	8.92	38	55	285	1268
6	**B9B132**	**B9A132**	**B9C132**	**B9W132**	0.358	9.09	52	76	543	2415
8	**B9B133**	**B9A133**	**B9C133**	**B9W133**	0.405	10.29	67	98	600	2700
10	**B9B134**	**B9A134**	**B9C134**	**B9W134**	0.455	11.56	110	162	600	2700
12	**B9B135**	**B9A135**	**B9C135**	**B9W135**	0.514	13.06	110	161	600	2700
18	**B9B136**	**B9A136**	**B9C136**	**B9W136**	0.520	13.21	103	151	600	2700
24	**B9B137**	**B9A137**	**B9C137**	**B9W137**	0.590	14.99	138	202	600	2700
36	**B9B138**	**B9A138**	**B9C138**	**B9W138**	0.680	17.27	171	250	600	2700

2.5 mm Breakout Cables are also available.

Interlocked Armor Distribution Cable

Tight Buffer — Plenum Rated

Applications

- Industrial environments
- Rugged installations
- Manufacturing plants
- Mining operations
- Telecommunications and data trunk
- Inter- and intra-building installations

Product Description

Heavy duty construction with interlocking aluminum armor (steel available on request) provides excellent mechanical protection from cutting or crushing and eliminates need for innerduct. Rodent resistant. Also available for outside plant. Loose tube design available on request.

Jacket Material	
Plenum	Thermoplastic
Buffer Tube	Thermoplastic
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Aluminum
Color Code (Buffer)	Per TIA/EIA 598-B, See page 39
Jacket Color	
Single-mode	Yellow
62.5/125 µm	Orange
50/125 µm / 1 Gb	Orange
50/125 µm / 10 Gb	Aqua

Ratings

Plenum	OFCP

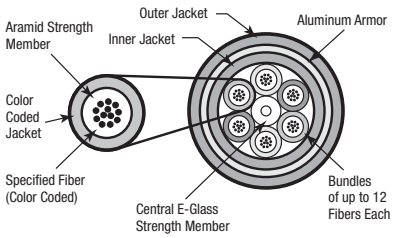
Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-20 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 Impacts @ 3.0 N-m

Armored Optical Fiber Distribution Cable

Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Industrial Armored Series										
Riser (NEC/CEC OFCR/OFC FT.4)										
6	**B9B230**	**B9A230**	**B9C230**	**B9W230**	0.570	14.48	23.24	35	286	1272
12	**B9B231**	**B9A231**	**B9C231**	**B9W231**	0.570	14.48	28.24	42	239	1063
24	**B9B232***	**B9A232***	**B9C232***	**B9W232***	0.670	17.02	54.72	81	641	2852
24	**B9B233**	**B9A233**	**B9C233**	**B9W233**	0.920	23.27	140.93	210	641	2852
36	**B9B234**	**B9A234**	**B9C234**	**B9W234**	0.970	24.64	144.67	215	717	3190
48	**B9B235**	**B9A235**	**B9C235**	**B9W235**	0.970	24.64	144.67	215	985	4254
72	**B9B236**	**B9A236**	**B9C236**	**B9W236**	1.120	28.45	213.06	317	1434	5381
96	**B9B237**	**B9A237**	**B9C237**	**B9W237**	1.270	32.26	314.45	468	1912	8608
144	**B9B238**	**B9A238**	**B9C238**	**B9W238**	1.320	33.53	322.91	481	2868	12762
Plenum (NEC/CEC OFCP/OFC FT.6)										
6	**B9B240**	**B9A240**	**B9C240**	**B9W240**	0.57	14.48	24.24	36	286	1272
12	**B9B241**	**B9A241**	**B9C241**	**B9W241**	0.57	14.48	31.24	46	239	1063
24	**B9B242***	**B9A242***	**B9C242***	**B9W242***	0.67	17.02	59.72	89	641	2852
24	**B9B243**	**B9A243**	**B9C243**	**B9W243**	0.92	23.37	153.93	229	641	2852
36	**B9B244**	**B9A244**	**B9C244**	**B9W244**	0.97	24.64	158.67	236	717	3190
48	**B9B245**	**B9A245**	**B9C245**	**B9W245**	0.97	24.64	158.67	236	986	4254
72	**B9B246**	**B9A246**	**B9C246**	**B9W246**	1.12	28.45	240.06	357	1434	6381
96	**B9B247**	**B9A247**	**B9C247**	**B9W247**	1.27	32.26	328.45	489	1912	8508
144	**B9B248**	**B9A248**	**B9C248**	**B9W248**	1.32	33.53	336.91	501	2868	12,762

Additional optical fiber cable constructions are available upon request.
*Single jacket design.

Ribbon Cable

Riser and Plenum Rated

Applications

- Inter-equipment connections
- NEBS applications
- Direct interface to computers with the use of "backbone" style fiber connectors
- High density interconnection to wall outlets or patch panels with ribbon connector interfaces
- "Micro-diameter" fan-out cables utilizing standard industry fiber connectors (ST, SC, FC, LC, MT-RJ)
- VSR OC-192/OC-768 interface based on parallel fiber optics

Product Description

Small size is ideal for connections in tight spaces. Color coded fibers. Suitable for use with standard ribbon connectors. Flexible, with half-inch minimum bend radius. Tight center-to-center tolerances. Optional identification printing available.

Jacket Material	PVC
Strength Member	Aramid Yarn
Color Code (Jacket & Fibers)	Per TIA/EIA 598-B, See page 39
Jacket Color	
Single-mode	Yellow
62.5/125µm	Orange
50/125 µm / 1 Gb	Orange
50/125 µm / 10 Gb	Aqua

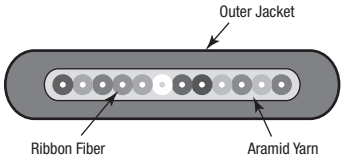
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT.4
Flame Resistance	UL 1666
Plenum	
UL Type	OFNP
cUL Type	OFN FT.6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +75°C
Operating/Installation	0° to +70°C
Crush Resistance (EIA-455-41)	2000 Ncm
Impact Resistance (EIA-455-25)	2000 Impacts @ 1.6 N-m
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	15 x OD
Long Term	10 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb– 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Ribbon Series										
Riser (NEC/CEC OFNR/OFN FT.4)										
2	B9B630	B9A630	B9C630	B9W630	0.11	2.9	5	7	100	444
4	B9B631	B9A631	B9C631	B9W631	0.08 x 0.158	2.1 x 4.0	4	6	100	444
6	B9B632	B9A632	B9C632	B9W632	0.08 x 0.158	2.1 x 4.0	6	9	100	444
8	B9B633	B9A633	B9C633	B9W633	0.08 x 0.158	2.1 x 4.0	6	9	100	444
12	B9B634	B9A634	B9C634	B9W634	0.08 x 0.180	2.1 x 4.6	7	10	100	444
Plenum (NEC/CEC OFNP/OFN FT.6)										
2	B9B640	B9A640	B9C640	B9W640	0.11	2.9	5	7	100	444
4	B9B641	B9A641	B9C641	B9W641	0.08 x 0.158	2.1 x 4.0	4	6	100	444
6	B9B642	B9A642	B9C642	B9W642	0.08 x 0.158	2.1 x 4.0	6	9	100	444
8	B9B643	B9A643	B9C643	B9W643	0.08 x 0.158	2.1 x 4.0	6	9	100	444
12	B9B644	B9A644	B9C644	B9W644	0.08 x 0.180	2.1 x 4.6	7	10	100	444

Fiber Ribbon Cable is to be sold as bulk cable and has not been qualified for field connectorization.

Single Jacket, All Dielectric Cable

Loose Tube — Outdoor, and Indoor/Outdoor Riser Rated

Single Jacket, All Dielectric Optical Fiber Cable

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Industrial outside plant

Product Description

Gel-filled buffer tube prevents water migration. All-dielectric strength member. Available as Riser rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Full dielectric construction, no grounding required. Available with up to 216 fibers. Length markings in meters for easy determination of cable length.

Jacket Material	
Outdoor	PE
Riser	Thermoplastic
Buffer Tube	PBT
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Color Code (Buffer)	Per TIA/EIA 598-B, See page 39
Jacket Color	Black

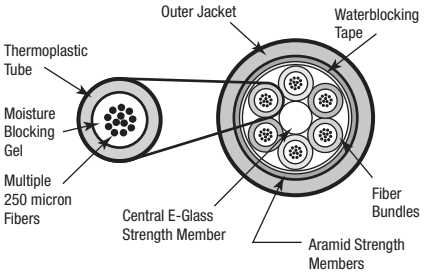
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT.4
Flame Resistance	UL 1666

Specifications

Temperature Range (Outdoor Series)	
Storage	-40 to +75°C
Operating	-40 to +70°C
Temperature Range (Riser Series)	
Storage	-40 to +75°C
Operating	-40 to +70°C
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



Single Jacket, All Dielectric Cable

Loose Tube — Outdoor, and Indoor/Outdoor Riser Rated (continued)

No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Loose Tube Series											
Outdoor											
6	6	**B9B510T**	**B9A510T**	**B9C510T**	**B9W510T**	0.41	10.5	57	85	600	2700
12	12	**B9B511T**	**B9A511T**	**B9C511T**	**B9W511T**	0.41	10.5	57	85	600	2700
24	12	**B9B500T**	**B9A500T**	**B9C500T**	**B9W500T**	0.41	10.5	60	90	600	2700
36	12	**B9B502T**	**B9A502T**	**B9C502T**	**B9W502T**	0.41	10.5	60	90	600	2700
48	12	**B9B505T**	**B9A505T**	**B9C505T**	**B9W505T**	0.41	10.5	60	90	600	2700
72	12	**B9B507T**	**B9A507T**	**B9C507T**	**B9W507T**	0.45	11.5	71	105	600	2700
96	12	**B9B513T**	**B9A513T**	**B9C513T**	**B9W513T**	0.52	13.2	84	125	600	2700
144	12	**B9B509T**	**B9A509T**	**B9C509T**	**B9W509T**	0.67	17.0	148	220	600	2700
216	12	**B9B520T**	**B9A520T**	**B9C520T**	**B9W520T**	0.69	17.4	150	223	600	2700
Riser (NEC/CEC OFNR/OFN FT.4)											
6	6	**B9B810**	**B9A810**	**B9C810**	**B9W810**	0.51	12.9	110	164	600	2700
12	12	**B9B811**	**B9A811**	**B9C811**	**B9W811**	0.51	12.9	110	164	600	2700
24	12	**B9B812**	**B9A812**	**B9C812**	**B9W812**	0.51	12.9	110	164	600	2700
36	12	**B9B813**	**B9A813**	**B9C813**	**B9W813**	0.51	12.9	110	164	600	2700
48	12	**B9B814**	**B9A814**	**B9C814**	**B9W814**	0.51	12.9	110	164	600	2700
72	12	**B9B815**	**B9A815**	**B9C815**	**B9W815**	0.54	13.7	128	190	600	2700
96	12	**B9B816**	**B9A816**	**B9C816**	**B9W816**	0.61	15.5	148	220	600	2700
144	12	**B9B817**	**B9A817**	**B9C817**	**B9W817**	0.76	19.3	196	291	600	2700

Alternative fiber counts are available.

No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Loose Tube Indoor/Outdoor Fiber Optic Cable										
LSZH (NEC/CEC OFNR/OFN FT.4)										
6	**B9B830**	**B9A830**	**B9C830**	**B9W830**	0.38	9.65	71	105	600	2700
12	**B9B831**	**B9A831**	**B9C831**	**B9W831**	0.38	9.65	71	105	600	2700
24	**B9B832**	**B9A832**	**B9C832**	**B9W832**	0.38	9.65	71	105	600	2700
48	**B9B834**	**B9A834**	**B9C834**	**B9W834**	0.48	12.18	101	151	600	2700

BELDEN
SENDING ALL THE RIGHT SIGNALS

Single Jacket, All Dielectric Cable

Loose Tube — Indoor/Outdoor Plenum Rated

Single Jacket, All Dielectric Optical Fiber Cable

Applications

- Medium to high fiber count requirements
- Inter-building duct installations
- Lashed aerial
- Indoor/outdoor
- Campus backbones
- Data Centers
- High Density Cable Trays

Product Description

Dry waterblocking technology used within tubes and under jacket. Available as Plenum rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Small diameter and bend radius facilitate installation in tight spaces. Full dielectric construction, no grounding required. Available with up to 144 fibers. Fibers grouped into sets of 12 for maximum density. Length markings in meters for easy determination of cable length.

Jacket Material	
Non-unitized	Thermoplastic
Unitized	Thermoplastic
Buffer Tube	Thermoplastic
Strength Member	E-Glass and Aramid Yarn
Central Strength Member	Upjacketed
Color Code (Buffer)	Per TIA/EIA 598-B, See page 39
Jacket Color	Black

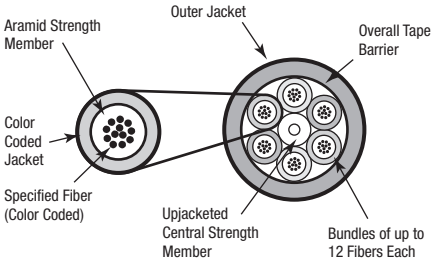
Ratings

Plenum	
UL Type	OFNP
cUL Type	OFN FT.6
Flame Resistance	NFPA 262

Specifications

Temperature Range	
Storage	-40 to +80°C
Operating	-40 to +70°C
Installation	0 to +60°C
Cyclic Flexing (EIA-455-104)	2000 cycles, min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Loose Tube Series											
Plenum (NEC/CEC OFNP/OFN FT.6)											
6	6	**B9B202**	**B9A202**	**B9C202**	**B9W202**	0.265	6.70	33	49	320	1423
12	12	**B9B204**	**B9A204**	**B9C204**	**B9W204**	0.265	6.70	33	49	320	1423
24	12	**B9B205**	**B9A205**	**B9C205**	**B9W205**	0.359	9.12	47	70	405	1801
36	12	**B9B206**	**B9A206**	**B9C206**	**B9W206**	0.359	9.12	47	70	405	1801
48	12	**B9B207**	**B9A207**	**B9C207**	**B9W207**	0.359	9.12	48	71	405	1801
72	12	**B9B209**	**B9A209**	**B9C209**	**B9W209**	0.429	10.90	71	106	585	2602
96	12	**B9B211**	**B9A211**	**B9C211**	**B9W211**	0.501	12.73	105	156	903	4017
144	12	**B9B215**	**B9A215**	**B9C215**	**B9W215**	0.665	16.89	189	281	1263	5618

Alternative fiber counts and hybrid constructions are available.

Double Jacket, Armored Cable

Loose Tube – Outdoor, and Indoor/Outdoor Riser Rated

Applications

- Direct burial
- Low to high fiber count requirements
- Inter-building duct installations
- Indoor/outdoor
- Industrial outside plant

Product Description

Gel-filled buffer tube prevents water migration. Available as Riser rated cable, thereby eliminating the need for service entrance splicing to in-building cable. Rodent resistant. Available in sizes up to 216 fibers. Length markings in meters for easy determination of cable length.

Jacket Material	
Outdoor	PE
Riser	PVC
Buffer Tube	Thermoplastic
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Armor	Corrugated Steel Tape
Color Code (Buffer)	Per TIA/EIA 598-B, See page 39
Jacket Color	Black

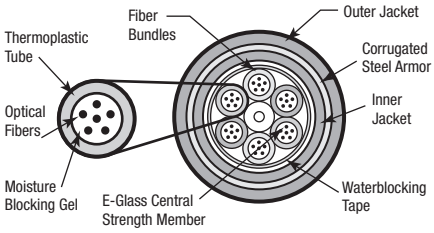
Ratings

Riser	OFCR

Specifications

Temperature Range (Outdoor)	
Storage	-40 to +75°C
Operating	-40 to +70°C
Temperature Range (Riser)	
Storage	-40 to +80°C
Operating	-40 to +70°C
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



Double Jacket, Armored Cable

Loose Tube – Outdoor, and Indoor/Outdoor Riser Rated (continued)

No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Loose Tube Series — Armored											
Outdoor											
6	6	B9B381T	B9A381T	B9C381T	B9W381T	0.62	15.5	134	200	600	2670
12	12	B9B382T	B9A382T	B9C382T	B9W382T	0.62	15.5	134	200	600	2670
24	12	B9B384T	B9A384T	B9C384T	B9W384T	0.62	15.5	134	200	600	2670
36	12	B9B386T	B9A386T	B9C386T	B9W386T	0.62	15.5	134	200	600	2670
48	12	B9B389T	B9A389T	B9C389T	B9W389T	0.62	15.5	134	200	600	2670
72	12	B9B391T	B9A391T	B9C391T	B9W391T	0.62	16.4	138	206	600	2670
96	12	B9B398T	B9A398T	B9C398T	B9W398T	0.72	18.2	170	254	600	2670
144	12	B9B393T	B9A393T	B9C393T	B9W393T	0.90	22.9	259	385	600	2670
Riser (NEC/CEC OFCR/OFC FT.4)											
6	6	B9B890	B9A890	B9C890	B9W890	0.62	15.5	138	205	600	2700
12	12	B9B891	B9A891	B9C891	B9W891	0.62	15.5	138	205	600	2700
24	12	B9B892	B9A892	B9C892	B9W892	0.62	15.5	138	205	600	2700
36	12	B9B893	B9A893	B9C893	B9W893	0.62	15.5	138	205	600	2700
48	12	B9B894	B9A894	B9C894	B9W894	0.62	15.5	176	262	600	2700
72	12	B9B895	B9A895	B9C895	B9W895	0.65	16.4	172	256	600	2700
96	12	B9B896	B9A896	B9C896	B9W896	0.72	18.2	206	307	600	2700
144	12	B9B897	B9A897	B9C897	B9W897	0.90	22.9	302	449	600	2700

Double Jacket, Heavy-Duty Cable

Loose Tube — Outdoor

Applications

- Direct burial
- Harsh environments
- Applications requiring good ozone-, moisture- and weather-resistance

Product Description

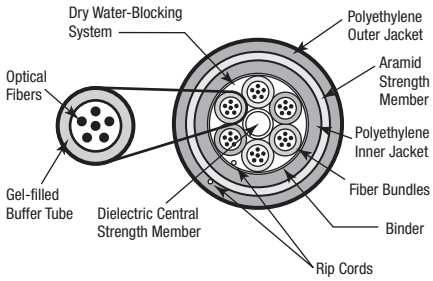
Gel-filled buffer tube prevents water migration. Available with up to 216 fibers.

Jacket Material	
Outer Jacket:	PE
Inner Jacket:	PE
Buffer Tube	PBT
Strength Member	Aramid Yarn
Central Strength Member	E-Glass
Core Wrap	Water Swellable Tape
Color Code (Buffer)	Per TIA/EIA 598-B, See page 39
Jacket Color	Black

Specifications

Temperature Range	
Storage	-40 to +75°C
Operating	-40 to +70°C
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
		OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Loose Tube Series — Heavy Duty											
Outdoor											
2	2	**B9B840**	**B9A840**	**B9C840**	**B9W840**	0.49	12.5	84	125	600	2700
4	4	**B9B841**	**B9A841**	**B9C841**	**B9W841**	0.49	12.5	84	125	600	2700
6	6	**B9B842**	**B9A842**	**B9C842**	**B9W842**	0.49	12.5	84	125	600	2700
8	8	**B9B843**	**B9A843**	**B9C843**	**B9W843**	0.49	12.5	84	125	600	2700
12	12	**B9B844**	**B9A844**	**B9C844**	**B9W844**	0.49	12.5	84	125	600	2700
18	12	**B9B845**	**B9A845**	**B9C845**	**B9W845**	0.49	12.5	84	125	600	2700
24	12	**B9B846**	**B9A846**	**B9C846**	**B9W846**	0.49	12.5	84	125	600	2700
36	12	**B9B847**	**B9A847**	**B9C847**	**B9W847**	0.49	12.5	84	125	600	2700
48	12	**B9B848**	**B9A848**	**B9C848**	**B9W848**	0.49	12.5	84	125	600	2700
72	12	**B9B849**	**B9A849**	**B9C849**	**B9W849**	0.53	13.4	97	144	600	2700
96	12	**B9B820**	**B9A820**	**B9C820**	**B9W820**	0.60	15.2	121	180	600	2700
144	12	**B9B821**	**B9A821**	**B9C821**	**B9W821**	0.75	19.0	184	274	600	2700
216	12	**B9B822**	**B9A822**	**B9C822**	**B9W822**	0.76	19.3	187	278	600	2700

Central Tube Cable

Loose Tube—Outdoor, and Outdoor Armored

Applications

- Campus OSP backbones
- Drop cable
- Telecommunications and data trunk
- Direct burial (armored only)
- Lashed aerial

Product Description

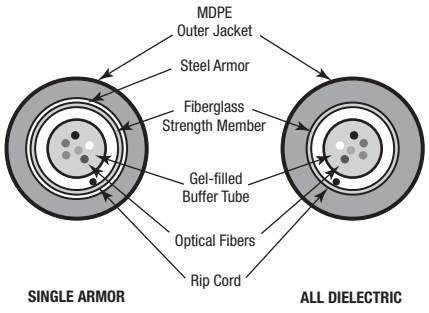
Economical option for low fiber counts. Quick and easy end preparation. Fully waterblocked with gel-filled buffer tube. No rods – easy handling. Crush, impact and abrasion resistant.

Jacket Material	PE
Buffer Tube	PBT
Core Wrap	Water Swellable Tape
Strength Member	Fiberglass
Armor	Corrugated Steel
Color Codes (Jacket and Fibers)	Per TIA/EIA 598-B, See page 39
Jacket Color	Black

Specifications

Temperature Range	
Storage	-40 to +75°C
Operating	-40 to +70°C
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Belden Part Number				Outside Diameter		Weight		Max. Install Load	
	OM1 62.5 / 125 µm Std. / 1 Gb	OM2 50 / 125 µm Std. / 1 Gb	OM3 50 / 125 µm 10 Gb – 300 m	OS2 Single-mode Enhanced	Inch	mm	lb/1000 ft.	kg/km	lb	N
Central Tube Series										
Outdoor										
2	B9B150	B9A150	B9C150	B9W150	0.325	8.26	50	75	600	2700
4	B9B151	B9A151	B9C151	B9W151	0.325	8.26	50	75	600	2700
6	B9B152	B9A152	B9C152	B9W152	0.325	8.26	50	75	600	2700
8	B9B153	B9A153	B9C153	B9W153	0.325	8.26	50	75	600	2700
10	B9B154	B9A154	B9C154	B9W154	0.325	8.26	50	75	600	2700
12	B9B155	B9A155	B9C155	B9W155	0.325	8.26	50	75	600	2700
Outdoor Armored										
2	B9B170	B9A170	B9C170	M9W170	0.310	7.80	34	50	600	2700
4	B9B171	B9A171	B9C171	B9W171	0.310	7.80	34	50	600	2700
6	B9B172	B9A172	B9C172	B9W172	0.310	7.80	34	50	600	2700
8	B9B173	B9A173	B9C173	B9W173	0.310	7.80	34	50	600	2700
10	B9B174	B9A174	B9C174	B9W174	0.310	7.80	34	50	600	2700
12	B9B175	B9A175	B9C175	B9W175	0.310	7.80	34	50	600	2700

TrayOptic® Heavy-Duty, All Dielectric Cable

Loose Tube — Indoor/Outdoor Riser Rated

Applications

- Industrial and other harsh environment applications
- Factory automation
- Direct burial

Product Description

Laser Optimized Fiber to handle Gigabit Ethernet light sources and expanded bandwidth requirements. Passes IEEE 383-2003 flame test. Waterblocking agent for moisture protection. CPE outer jacket option provides extra chemical or abrasion resistance.

Fiber Type	62.5/125µ
Jacket Material	PVC or CPE
Strength Member	Aramid Yarn
Jacket Color	Orange

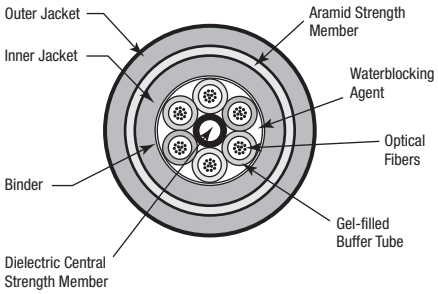
Ratings

Riser	
UL Type	OFNR
cUL Type	OFN FT.4
Flame Resistance	IEEE 383-2003

Specifications

Temperature Range	
Storage	-40 to +70°C
Operating	-40 to +70°C
Crush Resistance (EIA-455-41)	2000 N/cm
Impact Resistance (EIA-455-25)	2000 impacts@ 1.6N-m
Cyclic Flexing (EIA-455-104)	25 cycles, 12 lbs., 20 x OD radius min.
Min. Bend Radius	
Installation	20 x OD
Long Term	15 x OD
Maximum Installation Load	600 lbs. (2700 N)
Optical Specifications	See page 39

Fiber Bundle Detail



No. of Fibers	Fibers Per Tube	PVC Jacket			CPE Jacket			Outside Diameter	
		Belden Part No.	Weight lb/1000 ft.	Weight kg/km	Belden Part No.	Weight lb/1000 ft.	Weight kg/km	Inches	mm
TrayOptic Series									
Riser (NEC/CEC OFNR/OFN FT.4)									
2	2	**I100255**	88	131	**I100266**	83	124	0.440	11.18
4	4	**I100455**	88	131	**I100466**	83	124	0.440	11.18
6	6	**I100655**	88	131	**I100666**	83	124	0.440	11.18
8	4	**I400855**	88	131	**I400866**	83	124	0.440	11.18
12	6	**I601255**	88	131	**I601266**	83	124	0.440	11.18
18	6	**I601855**	88	131	**I601866**	83	124	0.440	11.18
24	6	**I602455**	88	131	**I602466**	83	124	0.440	11.18
36	6	**I603655**	88	131	**I603666**	83	124	0.440	11.18
48	12	**I604855**	136	202	**I604866**	129	192	0.540	13.72
60	12	**I606055**	136	202	**I606066**	129	192	0.540	13.72
72	12	**I607255**	136	202	**I607266**	129	192	0.540	13.72

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