



Fiber Product Selection Guide

for data centers and LAN installations

Selection Guide



Selection Guide: Fiber systems for in-building cabling

Build a fiber product portfolio to fit
your project requirements

Belden's fiber solutions are built for easy installation, to handle various density requirements and to support simple and on-demand scalability. Paired with our unmatched collaborative approach to service, Belden is right there with you: We'll help you build a fiber solution that meets the requirements of any project.

This guide includes a product selector to help you get started with selecting the right system—from the media type to the system type. It also includes local area network (LAN) and data center (DC) system selection examples, followed by media and system types with associated hardware and accessories.





Table of contents

Performance chart	4
Product selector	5
Local area network (LAN) use cases	6-7
Data center use cases	8-10
Media and cabling methods	11-17
OM1 (62.5 μ m Multimode Fiber) cabling Field-terminated system	11
OM3 (50 μ m Multimode Fiber) cabling Field-terminated system	12
OM3 (50 μ m Multimode Fiber) Pre-Terminated System	13
OM4 (50 μ m Multimode Fiber) cabling Field-terminated system	14
OM4 (50 μ m Multimode Fiber) Pre-terminated system	15
OS2 (Singlemode Fiber) Field-terminated system	16
OS2 (Singlemode Fiber) Pre-terminated system	17
FiberExpress Enterprise Closet X (FX ECX) system	18-19
FiberExpress Ultra-High-Density (FX UHD) system	20-21
DCX Optical Distribution Frame (ODF) system	22-23
Fiber Tool Kits overview	24
Customer service and other Belden contacts	26



Belden FX systems performance chart

Belden system	FX OM1	FX OM3	FX OM4	FX OS2
Standard	OM1 - 62.5 µm Multimode Non-bend-insensitive TIA-492AAAA ANSI/TIA-568-D.3 ISO/IEC 11801	OM3 - 50 µm Multimode Bend-insensitive TIA-492AAAC ANSI/TIA-568-D.3 ISO/IEC 11801	OM4 - 50 µm Multimode Bend-insensitive TIA-492AAD ANSI/TIA-568-D.3 ISO/IEC 11801	OS2 - 9 µm Singlemode Bend-insensitive TIA-492CAAB ANSI/TIA-568-D.3 ISO/IEC 11801 ITU G.657.A1
Ethernet applications	Legacy 1G up to 275 m	1G up to 550 m 10G up to 300 m 40G/100G up to 100 m	10G up to 400 m 40G/100G up to 150 m	10G up to 30/40 km 40G/100G up to 10/40 km
Fiber channel applications	Legacy 1G up to 300 m	4G up to 380 m 8G up to 300 m 16G up to 100 m	16G up to 125 m	4/8/16G up to 10 km
Fiber cable assemblies jacket color	Orange	Aqua	Erika Violet Aqua (optional)*	Yellow
Connector and adapter color	Beige	Aqua	Erika Violet Aqua (optional)*	Blue Green (APC)
Pre-term connector loss	MPO-12 0.5 dB LC/SC/ST 0.25 dB	MPO-12 0.35 dB LC/SC/ST 0.25 dB	MPO-12 0.2 dB LC/SC/ST 0.15 dB	MPO-12 0.5 dB LC/SC/ST 0.35 dB
Fiber cable loss	Tight buffer (900 µm) 3.5 dB @ 850 nm 1.25 dB @ 1300 nm Enterprise Loose Tube (250 µm) 3.25 dB @ 850 nm 1.0 dB @ 1300 nm	Tight buffer (900 µm) 3.0 dB @ 850 nm 1.0 dB @ 1300 nm Enterprise Loose Tube (250 µm) 3.0 dB @ 850 nm 1.0 dB @ 1300 nm	Tight buffer (900 µm) 3.0 dB @ 850 nm 1.0 dB @ 1300 nm Enterprise Loose Tube (250 µm) 3.0 dB @ 850 nm 1.0 dB @ 1300 nm	Tight buffer (900 µm) 0.5 dB @ 1310 nm 0.5 dB @ 1550 nm Enterprise Loose Tube (250 µm) 0.4 dB @ 1310 nm 0.3 dB @ 1550 nm
Min. EMB (MHz·km)	N/A	2000 @ 850 nm	4700 @ 850 nm	N/A
Min. OFL bandwidth (MHz·km)	200 @ 850 nm 500 @ 1300 nm	1500 @ 850 nm 500 @ 1300 nm	3500 @ 850 nm 500 @ 1300 nm	N/A



Product selector

Step 1: Select media type based on your technology, network speed and Ethernet characteristics.

Media selector	General			Typical Ethernet characteristics		
	Technology	Network speed	Speed	Loss budget	Length	Applications
OM1	Legacy	Low speed	<1 Gigabit	High	< 2000 m	OT Controls
OM3	Current	Some high speed	10 Gigabit	Low	< 300 m	Network/IoT
OM4	Current	High speed	100 Gigabit	Low	< 150 m	Network/IoT
OS2	Current	Very high speed	400 Gigabit+	High	< 10 km	Network/IoT/Long haul

Step 2: Select cable termination type based on your available resources, tools, time constraints, etc.

Cabling methods & materials	Resources & tooling			Time constraints			Length				Purpose		Fiber count	
	Installation expertise	Testing expertise	Limited expertise	Limited planning	Limited installation	No constraints	Variable	Predictable	Known	Unknown	Modular	Fixed	Low/medium	High
Pre-terminated fiber	●	●	■	■	●	●	■	●	●	■	●	●	●	●
Field-terminated fiber	●	■	■	●	■	●	●	●	●	●	■	●	●	●
Combination systems	●	■	■	●	●	●	●	●	●	●	■	●	●	●

Step 3: Select platform type based on your density, connectivity and mounting requirements.

Connectivity platforms & materials	Density		Media types accepted & advanced connectivity					Mounting type				Building types			Data center types			
	Typical	Maximum density per RU (strands/duplex ports/MPO ports)	Fiber only	Fiber & copper	Other media	Tap capable	Pon capable	Rack-mount	Wall-mount	Dedicated mount	Special mounts (e.g. zero U)	Residential	Commercial LAN	Warehouse & industrial	Edge DC	Small- to mid-scale	Large-scale DC	Hyperscale & central office
FX ECX platform	low-mid	48/24/na	●	●	●	—	●	●	●	—	—	●	●	●	●	●	—	—
FX UHD platform	mid-high	864/72/72	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●
DCX platform	very high	864/72/72	●	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●

Legend: ● = Recommended/possible solution ■ = Use with caution/may not be ideal



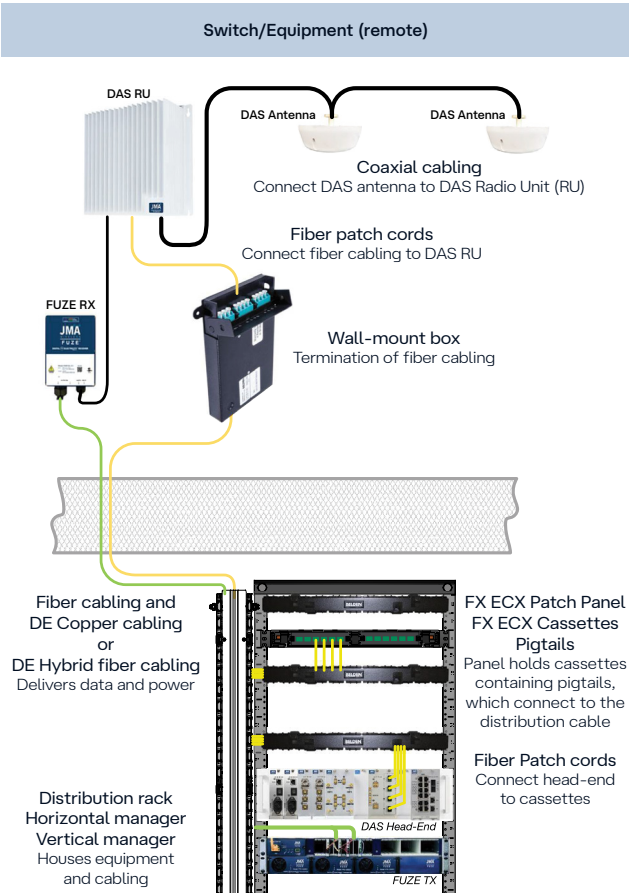
LAN use cases

Example 1: Distributed Antenna System (DAS)

Fiber cabling	Pigtails	Cassettes	FX ECX Patch panels	Patch cords
				
FX indoor OS2 6f OFNP distribution cable, tight buffer	FX field-term pigtails, OS2, LC/APC Simplex 900 µm, 12f	FX ECX splice cassette, OS2, LC/APC Duplex, 6-Port, 12f	FX ECX 1U housing	FX patch cord, OS2, LC/APC Duplex - SC/APC Duplex, 2.0 mm, A-TO-B

Wall-mount	Digital Electricity™ (DE) cabling	Coaxial cabling	Racks and managers
			
FX multi-box field-terminated, OS2, 12f, LC/APC, w/pigtails	DE copper only 16 AWG, 2-Pairs, plenum	1/2" Air plenum coax, blue	Horizontal & vertical cable manager distribution rack

Note: for additional components, www.jma.com

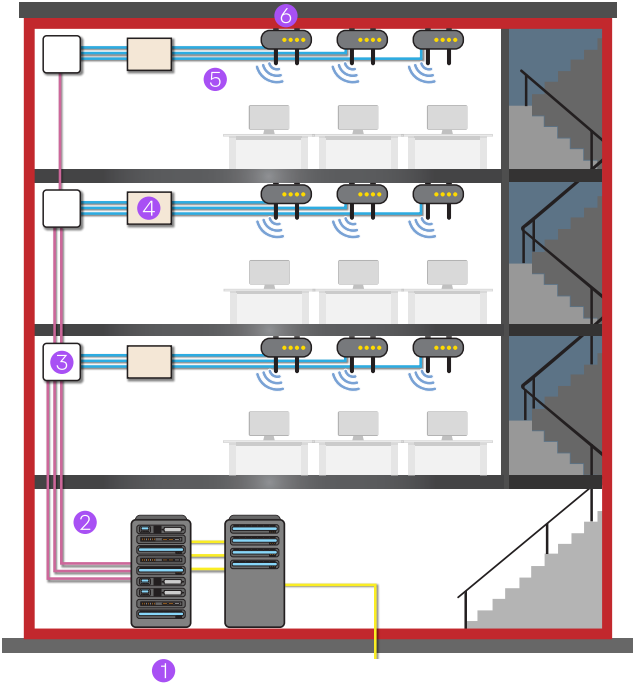


Example 2: Small cell

Racks and managers	ECX patch panels	Cassettes
		
Horizontal & Vertical Managers, Distribution Rack	FX ECX 1U Housing	LC Duplex Splice Cassette, OM4 Adapters

Pigtails	Patch cords	Fiber cabling
		
FX field-term pigtails, OM4 LC, 900 μm, 12f	FX pre-terminated assemblies, OM4, LC Duplex to LC Duplex, Zip cord	FX Indoor OM4 12f Non-unitized - Plenum distribution cable, Tight buffer

Patch panels	Patch cords	Copper cabling	FlexPlugs
			
10GX REVConnect Patch panel 24-port, 1U (Preloaded)	10GX Patch cord, Bonded-pair, 4-Pair, 23 AWG Solid, CMR, T568A/B-T568A/B	10GXW13 Category 6A Cable, 4-Pair, U/UTP, CMP	REVConnect 10GX UTP FlexPlug, 18"



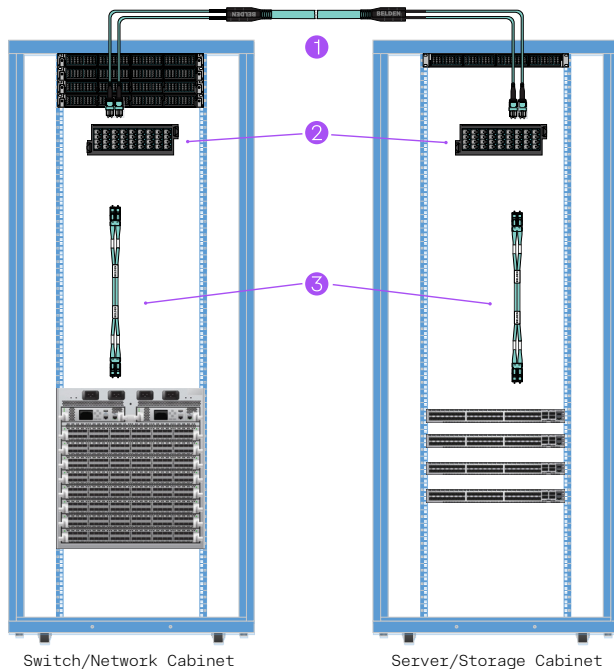
- 1 Centralized Unit (CU) with Fiber connections: Distribution rack, cable management, fiber housings, cassettes, pigtails and patch cords
- 2 Fiber cable: typically OM4 or OS2
- 3 Distribution Unit (DU)
- 4 Copper Interconnect: Copper patch panels and patch cords
- 5 Copper data cable with power: typically Category 6A
- 6 Radio Unit (RU): use FlexPlug for tight connection points



DC use cases

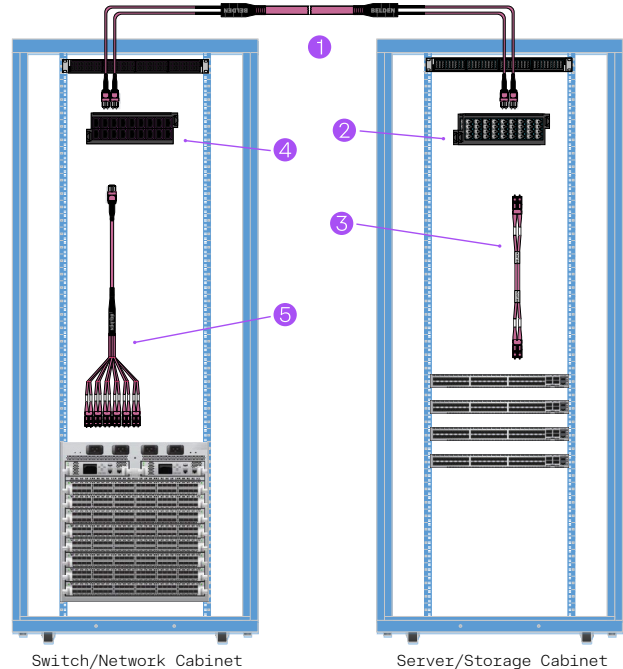
Example 1: Two-connector channel with discreet patching (duplex fiber equipment ports)

A two-connector channel for bi-directional or one direction applications (ex: 10G) using DCX or FX UHD Patch Panels, MPO-LC Pre-Term Cassettes in both switch/network cabinets and server/storage cabinets. FX MPO Trunks are used between the panels as permanent link connections. FX LC-LC Duplex Patch Cords are used for patching between the patch panels to the active equipment.



Example 2: Two-connector channel with hydra/discreet patching (duplex fiber equipment ports)

A two-connector channel for bi-directional or one direction applications (ex: 10G) using DCX or FX UHD Patch Panels, MPO-LC Pre-Term Cassettes in the switch/network cabinets and MPO Adapter Frames in the server/storage cabinets. FX MPO Trunks are used between the panels as permanent link connections. FX LC-LC Duplex Patch Cords are used for patching in the server/storage cabinets and MPO-LC Hydra Patch Cords are used for patching in the switch/network cabinets saving a point of connection and reducing the loss budget for the channel.

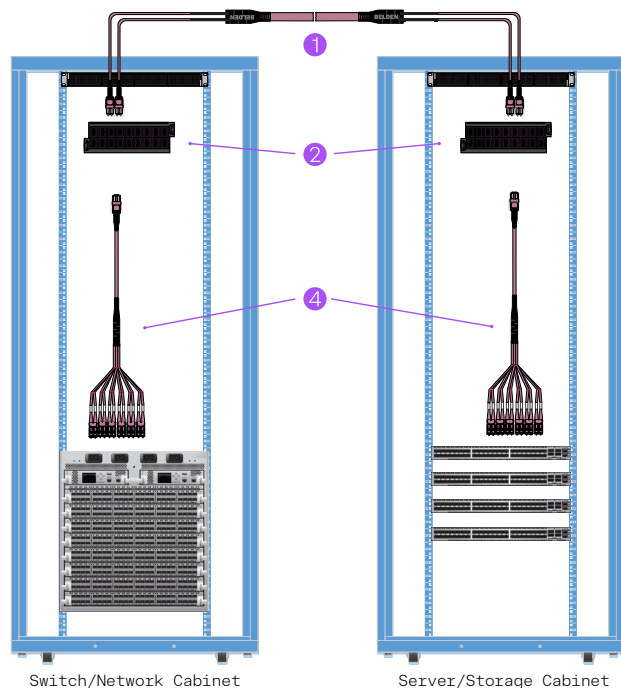


- 1 FX MPO Trunk 2 FX UHD or DCX MPO-LC Pre-terminated Cassette 3 FX LC Duplex Patch Cord 4 FX UHD or DCX MPO Adapter Frame 5 FrameFX Hydra Patch Cord



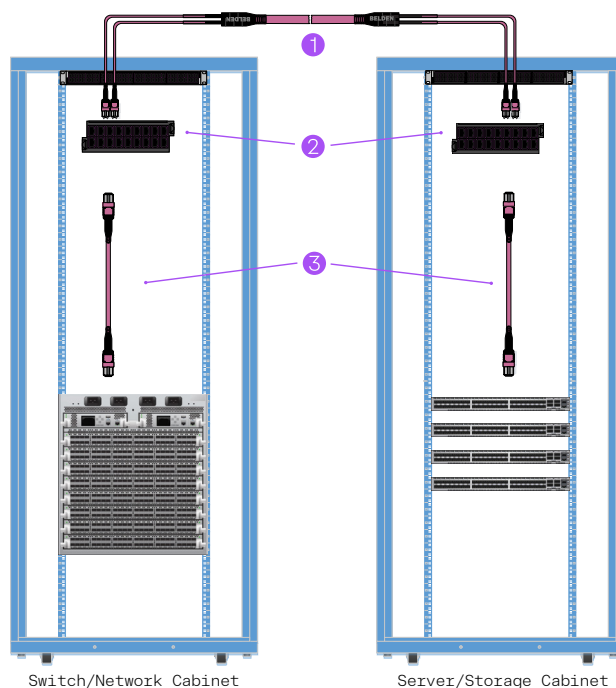
Example 3: Hydra-to-hydra patching (Duplex fiber equipment ports)

A two-connector channel for bi-directional or one direction applications (ex: 10G) using DCX or FX UHD Patch Panels, MPO Adapter Frames in both switch/network cabinets and server/storage cabinets. FX MPO Trunks are used between the panels as permanent link connections. FX MPO-LC Hydra Cords are used for patching between the patch panels to the active equipment saving a point of connection at each cabinet side reducing the loss budget for the channel.



Example 4: Two-connector channel with MPO patching (Multi-fiber equipment ports)

A two-connector channel for multi-fiber applications (ex: 40G, 100G) using the DCX System or FX UHD Patch Panels, MPO Adapter Frames in both switch/network cabinets and server/storage cabinets. FX MPO Trunks are used between the panels as permanent link connections. FX MPO Patch Cords are used for patching between the patch panels to the active equipment.



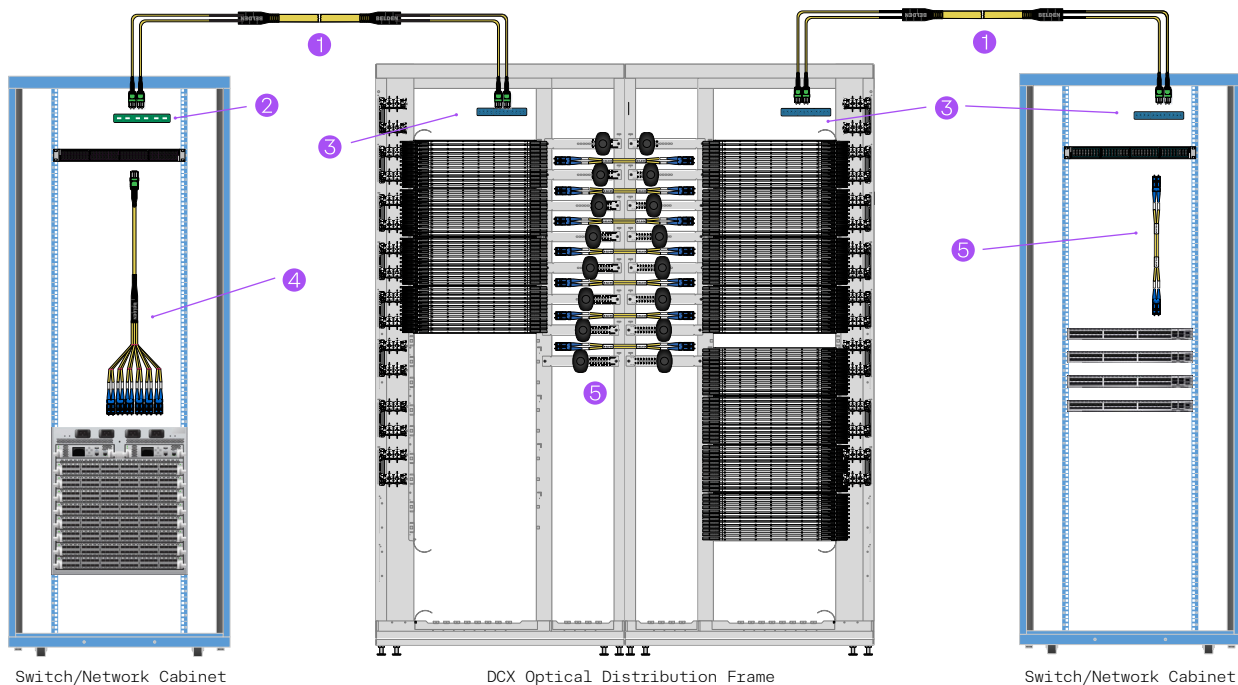
- ① FX MPO Trunk ② FX UHD or DCX MPO Adapter Frame ③ FX MPO Patch Cord ④ FX Hydra Patch Cord



DC use cases

Example 5: Four-connector channel with hydra/mpo patching (duplex fiber equipment ports)

A four-connector channel for bi-directional or one direction applications (ex: 10G) using DCX Optical Fiber Distribution Frames to do the cross-connect using FX LC Duplex Patch Cords, DCX MPO-LC Pre-Term Cassettes in the switch/network cabinets and DCX MPO Adapter Frames in the server/storage cabinets. FX MPO Trunks are used between the panels as permanent link connections. FX LC-LC Duplex Patch Cords are used for patching in the server/storage cabinets and MPO-LC Hydra Patch Cords are used for patching in the switch/network cabinets saving a point of connection and reducing the loss budget for the channel.



- ① FX MPO Trunk ② DCX MPO Adapter Frame ③ DCX Pre-Term Cassette MPO-LC ④ FX Hydra Patch Cord ⑤ FX LC Duplex Patch Cords

OM1 (62.5 μm Multimode Fiber) cabling | Field-terminated system

Indoor cable

FX Distribution		FX Armored Distribution		FX Interconnect 2.0 mm	
Riser	Plenum	Riser	Plenum	Riser	Plenum
F11D006R9	F11D006P9	F11D006F9	F11D006A9	F11I002RB	F11I002PB
F11D012R9	F11D012P9	F11D012F9	F11D012A9	—	—
F11D024R9	F11D024P9	F11D024F9	F11D024A9	—	—

Indoor/outdoor cable

FX Distribution		FX Loose Tube		
Riser	Plenum	Riser (Gel-free)	Riser (Gel-filled)	Plenum (Gel-free)
FD1D024R9	FD1D024P9	FD1L006RC	FD1L006RF	FD1L006PC
FD1D048RK	FD1D048PK	FD1L012RD	FD1L012RG	FD1L012PD
FD1D072RK	FD1D072PK	FD1L024RD	FD1L024RG	FD1L024PD
FD1D096RK	FD1D096PK	FD1L048RD	FD1L048RG	FD1L048PD
FD1D144RK	FD1D144PK	FD1L072RD	FD1L072RG	FD1L072PD

Outdoor cable

FX All-Dielectric Loose Tube		FX Armored Loose Tube	
Gel-free	Gel-filled	Gel-free	Gel-filled
FS1L012ND	FS1L012NG	FS1L0126D	FS1L0126G
FS1L024ND	FS1L024NG	FS1L0246D	FS1L0246G
FS1L048ND	FS1L048NG	FS1L0486D	FS1L0486G
FS1L072ND	FS1L072NG	FS1L0726D	FS1L0726G

Connectors

Termination	Performance	LC	SC	ST
FX Brilliance (Mechanical)	Standard	AX105200-S1	AX105205-S1	AX105210-S1
FX Fusion (Splice-on)	High	FT1LC900FS01	FT1SC900FS01	—

Patch cords

2-Fiber Jumpers, Riser		Toolkits	
LC Duplex to LC Duplex (2.0 mm Duplex cord)	FP1LDLDxxxM	FX Brilliance Precision Installation Kit	AX104271
LC Duplex to ST (2.0 mm Duplex cord)	FP1LDSTxxxM	FX Fusion Splicer	FXFSTOSPL
SC Duplex to SC Duplex (3.0 mm Duplex cord)	FP1SDSDxxxM	FX Fusion Standard Toolkit	FXFSTOSTK
ST to ST (3.0 mm Duplex cord)	FP1STSTxxxM	FX Fusion Precision Toolkit	FXFSTOPTK
LC Duplex to SC Duplex (2.0 mm Duplex cord)	FP1LDSDxxxM		
ST to SC Duplex (3.0 mm Duplex cord)	FP1SDSTxxxM		

Where xxx is the length in meters.



OM3 (50 µm Multimode Fiber) cabling | Field-terminated system

Indoor cable

FX Distribution		FX Armored Distribution		FX Interconnect 2.0 mm	
Riser	Plenum	Riser	Plenum	Riser	Plenum
FI3D006R9	FI3D006P9	FI3D006F9	FI3D006A9	FI3I002RB	FI3I002PB
FI3D012R9	FI3D012P9	FI3D012F9	FI3D012A9	—	—
FI3D024R9	FI3D024P9	FI3D024F9	FI3D024A9	—	—

Indoor/outdoor cable

FX Distribution		FX Loose Tube		
Riser	Plenum	Riser (Gel-free)	Riser (Gel-filled)	Plenum (Gel-free)
FD3D024R9	FD3D024P9	FD3L006RC	FD3L006RF	FD3L006PC
FD3D048RK	FD3D048PK	FD3L012RD	FD3L012RG	FD3L012PD
FD3D072RK	FD3D072PK	FD3L024RD	FD3L024RG	FD3L024PD
FD3D096RK	FD3D096PK	FD3L048RD	FD3L048RG	FD3L048PD
FD3D144RK	FD3D144PK	FD3L072RD	FD3L072RG	FD3L072PD

Outdoor cable

FX All-Dielectric Loose Tube		FX Armored Loose Tube	
Gel-free	Gel-filled	Gel-free	Gel-filled
FS3L012ND	FS3L012NG	FS3L0126D	FS3L0126G
FS3L024ND	FS3L024NG	FS3L0246D	FS3L0246G
FS3L048ND	FS3L048NG	FS3L0486D	FS3L0486G
FS3L072ND	FS3L072NG	FS3L0726D	FS3L0726G

Connectors

Termination	Performance	LC	SC	ST
FX Brilliance (Mechanical)	Standard	AX105202-S1	AX105207-S1	AX105212-S1
FX Fusion (Splice-on)	High	FT3LC900FS01	FT3SC900FS01	—
FX Pigtails, 900 µm (Bulk Pack of 12)	High	FT3LC900PR12	FT3SC900PR12	FT3ST900PR12
Fusion Splice Heat Shrink Protector Sleeves 900 µm (25 pkg)	—	FXFUHS900AB25	FXFUHS900AB25	FXFUHS900AB25

Patch cords

2-Fiber Jumpers, Riser	
LC Duplex to LC Duplex, (2.0 mm Duplex cord)	FP3LDLDxxxM
LC Duplex to ST (2.0 mm Duplex cord)	FP3LDSTxxxM
SC Duplex to SC Duplex (3.0 mm Duplex cord)	FP3SDSDxxxM
ST to ST (3.0 mm Duplex cord)	FP3STSTxxxM
LC Duplex to SC Duplex (2.0 mm Duplex cord)	FP3LDSDxxxM
ST to SC Duplex (3.0 mm Duplex cord)	FP3SDSTxxxM

Toolkits	
FX Brilliance Precision Installation Kit	AX104271
FX Fusion Splicer	FXFSTOSPL
FX Fusion Standard Toolkit	FXFSTOSTK
FX Fusion Precision Toolkit	FXFSTOPTK

Where xxx is the length in meters.



OM3 (50µm Multimode Fiber) | Pre-terminated system

Assemblies

MPO Trunks (Male to Male) Base-12, Plenum	Belden part number
12 fibers	FM3MMB1xxxMPMEA
24 fibers	FM3MMB2xxxMPMEA
36 fibers	FM3MMB3xxxMPUEA
48 fibers	FM3MMB4xxxMPUEA
72 fibers	FM3MMB6xxxMPUEA
96 fibers	FM3MMB8xxxMPUEA
144 fibers	FM3MMBDxxxMPUEA

MPO Trunks (Male to Male) Base-8, Plenum	Belden part number
8 fibers	FM34MB1xxxMPMEA
16 fibers	FM34MB2xxxMPMEA
24 fibers	FM34MB3xxxMPMEA
32 fibers	FM34MB4xxxMPUEA
48 fibers	FM34MB6xxxMPUEA
64 fibers	FM34MB8xxxMPUEA
96 fibers	FM34MBDxxxMPUEA

Where xxx is the length in meters.

Other polarity options are available for MPO trunks and MPO patch cords: Type A and Type C

Other polarity options are available for MPO - LC harnesses

Cable harnesses/hydra cords

MPO(F) Base-12 to LC, Plenum	Belden part number
MPO(F) to LC Duplex, Type A (Straight polarity)	FP3LDMFxxxM
MPO(F) to LC Uniboot, Type A (Straight polarity)	FP3LUMFxxxM

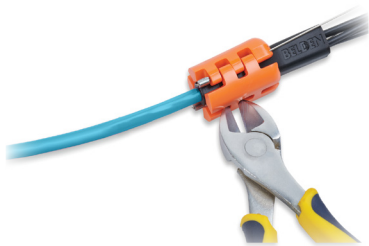
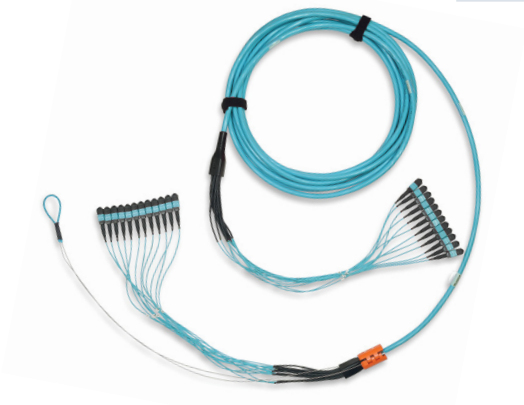
MPO(F) Base-8 to LC, Plenum	Belden part number
MPO(F) to LC Duplex SR4	FP3LD4FxxxM
MPO(F) to LC Uniboot SR4	FP3LU4FxxxM

Patch cords

MPO(F) to MPO(F) Fiber Jumpers, Plenum	Belden part number
MPO(F) to MPO(F) Base-12 Type B	FP3MFMFxxxM
MPO(F) to MPO(F) Base-8 Type B	FP34F4FxxxM

2-Fiber Jumpers, Riser	Belden part number
LC Uniboot to LC Uniboot (Mini-round 2f 2.0 mm)	FP3LULUxxxM
LC Duplex to LC Duplex (1.6 mm Duplex cord)	FP3LDLDxxxMR1XE
LC Duplex to ST (1.6 mm Duplex cord)	FP3LDSTxxxMR1XE
LC Duplex to SC Duplex (1.6 mm Duplex cord)	FP3LDSDxxxMR1XE

Pre-terminated assemblies offer reduced cable stress (Integrated transition boot - bend radius control) 100 lbs pulling tension, faster pulling eye removal and easy patch panel attachment.



OM4 (50 µm Multimode Fiber) cabling | Field-terminated system

Indoor cable

FX Distribution		FX Armored Distribution		FX Interconnect 2.0 mm	
Riser	Plenum	Riser	Plenum	Riser	Plenum
FI4D006R9	FI4D006P9	FI4D006F9	FI4D006A9	FI4I002RB	FI4I002PB
FI4D012R9	FI4D012P9	FI4D012F9	FI4D012A9	—	—
FI4D024R9	FI4D024P9	FI4D024F9	FI4D024A9	—	—

Indoor/outdoor cable

FX Distribution		FX Loose Tube		
Riser	Plenum	Riser (Gel-free)	Riser (Gel-filled)	Plenum (Gel-free)
FD4D024R9	FD4D024P9	FD4L006RC	FD4L006RF	FD4L006PC
FD4D048RK	FD4D048PK	FD4L012RD	FD4L012RG	FD4L012PD
FD4D072RK	FD4D072PK	FD4L024RD	FD4L024RG	FD4L024PD
FD4D096RK	FD4D096PK	FD4L048RD	FD4L048RG	FD4L048PD
FD4D144RK	FD4D144PK	FD4L072RD	FD4L072RG	FD4L072PD

Outdoor cable

FX All-Dielectric Loose Tube		FX Armored Loose Tube	
Gel-free	Gel-filled	Gel-free	Gel-filled
FS4L012ND	FS4L012NG	FS4L0126D	FS4L0126G
FS4L024ND	FS4L024NG	FS4L0246D	FS4L0246G
FS4L048ND	FS4L048NG	FS4L0486D	FS4L0486G
FS4L072ND	FS4L072NG	FS4L0726D	FS4L0726G

Connectors

Termination	Performance	LC	SC	ST
FX Brilliance (Mechanical)	Standard	AX105252-S1	AX105253-S1	AX105254-S1
FX Fusion (Splice-on)	High	FT4LC900FS01	FT4SC900FS01	
FX Pigtails, 900 µm (Bulk Pack of 12)	High	FT4LC900PR12	FT4SC900PR12	FT4ST900PR12
Fusion Splice Heat Shrink Protector Sleeves 900 µm (25 pkg)	—	FXFUHS900AB25	FXFUHS900AB25	FXFUHS900AB25

Patch cords

2-Fiber Jumpers, Riser	
LC Duplex to LC Duplex (2.0 mm Duplex cord)	FP3LDLDxxxM
LC Duplex to ST (2.0 mm Duplex cord)	FP3LDSTxxxM
SC Duplex to SC Duplex (3.0 mm Duplex cord)	FP3SDSDxxxM
ST to ST (3.0 mm Duplex cord)	FP3STSTxxxM
LC Duplex to SC Duplex (2.0 mm Duplex cord)	FP3LSDSxxxM
ST to SC Duplex (3.0 mm Duplex cord)	FP3SDSTxxxM

Toolkits	
FX Brilliance Precision Installation Kit	AX104271
FX Fusion Splicer	FXFSTOSPL
FX Fusion Standard Toolkit	FXFSTOSTK
FX Fusion Precision Toolkit	FXFSTOPTK

Where xxx is the length in meters.



OM4 (50µm Multimode Fiber) | Pre-terminated system

Assemblies

MPO Trunks (Male to Male) Base-12, Plenum	Belden part number
12 fibers	FM4MMB1xxxMPMEE
24 fibers	FM4MMB2xxxMPMEE
36 fibers	FM4MMB3xxxMPUEE
48 fibers	FM4MMB4xxxMPUEE
72 fibers	FM4MMB6xxxMPUEE
96 fibers	FM4MMB8xxxMPUEE
144 fibers	FM4MMB12xxxMPUEE

MPO Trunks (Male to Male) Base-8, Plenum	Belden part number
8 fibers	FM44MB1xxxMPMEE
16 fibers	FM44MB2xxxMPMEE
24 fibers	FM44MB3xxxMPMEE
32 fibers	FM44MB4xxxMPUEE
48 fibers	FM44MB6xxxMPUEE
64 fibers	FM44MB8xxxMPUEE
96 fibers	FM44MB12xxxMPUEE

Where xxx is the length in meters.

Other polarity options are available for MPO trunks and MPO patch cords: Type A and Type C

Other polarity options are available for MPO - LC harnesses

Cable harnesses/hydra cords

MPO(F) Base-12 to LC, Plenum	Belden part number
MPO(F) to LC Duplex, Type A (Straight polarity)	FP4LDMFxxxM
MPO(F) to LC Uniboot, Type A (Straight polarity)	FP4LUMFxxxM

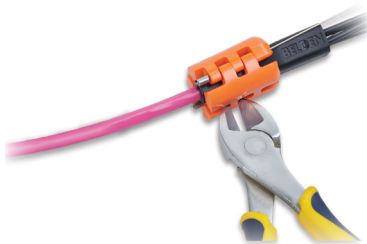
MPO(F) Base-8 to LC, Plenum	Belden part number
MPO(F) to LC Duplex SR4	FP4LD4FxxxM
MPO(F) to LC Uniboot SR4	FP4LU4FxxxM

Patch cords

MPO(F) to MPO(F) Fiber Jumpers, Plenum	Belden part number
MPO(F) to MPO(F) Base-12 Type B	FP4MFMFxxxM
MPO(F) to MPO(F) Base-8 Type B	FP44F4FxxxM

2-Fiber Jumpers, Riser	Belden part number
LC Uniboot to LC Uniboot (Mini-round 2f 2.0 mm)	FP4LULUxxxM
LC Duplex to LC Duplex (1.6 mm Duplex cord)	FP4LDLDxxxMR1XE
LC Duplex to ST (1.6 mm Duplex cord)	FP4LDSTxxxMR1XE
LC Duplex to SC Duplex (1.6 mm Duplex cord)	FP4LDSDxxxMR1XE

Pre-terminated assemblies offer reduced cable stress (Integrated transition boot - bend radius control) 100 lbs pulling tension, faster pulling eye removal and easy patch panel attachment.



OS2 (Singlemode Fiber) | Field-terminated system

Indoor cable

FX Distribution		FX Armored Distribution		FX Interconnect 2.0 mm		FX Flexible Ribbon
Riser	Plenum	Riser	Plenum	Riser	Plenum	Plenum
FISD006R9	FISD006P9	FISD006F9	FISD006A9	FISIO02RB	FISIO02PB	FISR072P2
FISD012R9	FISD012P9	FISD012F9	FISD012A9	—	—	FISR144P2
FISD024R9	FISD024P9	FISD024F9	FISD024A9	—	—	FISR288P5

Indoor/outdoor cable

FX Distribution		FX Loose Tube			FX Flexible Ribbon
Riser	Plenum	Riser (Gel-free)	Riser (Gel-filled)	Plenum (Gel-free)	Riser
FSDS024R9	FSDS024P9	FDSL006RC	FDSL006RF	FDSL006PC	FDSR012R2
FSDS048RK	FSDS048PK	FDSL012RD	FDSL012RG	FDSL012PD	FDSR048R2
FSDS072RK	FSDS072PK	FDSL024RD	FDSL024RG	FDSL024PD	FDSR072R2
FSDS096RK	FSDS096PK	FDSL048RD	FDSL048RG	FDSL048PD	FDSR144R2
FSDS144RK	FSDS144PK	FDSL072RD	FDSL072RG	FDSL072PD	FDSR288R5

Outdoor cable

FX All-Dielectric Loose Tube		FX Armored Loose Tube	
Gel-free	Gel-filled	Gel-free	Gel-filled
FSSL012ND	FSSL012NG	FSSL0126D	FSSL0126G
FSSL024ND	FSSL024NG	FSSL0246D	FSSL0246G
FSSL048ND	FSSL048NG	FSSL0486D	FSSL0486G
FSSL072ND	FSSL072NG	FSSL0726D	FSSL0726G

Connectors

Termination	Performance	LC	SC	ST
FX Brilliance (Mechanical)	Standard	AX105203-S1	AX105208-S1	AX105213-S1
FX Fusion (Splice-on)	High	FTSLC900FS01	FTSSC900FS01	—
FX Pigtails, 900 µm (Bulk Pack of 12)	High	FTSLC900PR12	FTSSC900PR12	FTSST900PR12
Fusion Splice Heat Shrink Protector Sleeves 900 µm (25 pkg)	—	FXFUHS900AB25	FXFUHS900AB25	FXFUHS900AB25
Mass Fusion Pigtails, 250 µm, 12-Fiber Ribbon	High	FTSLC250PR12	FTSSC250PR12	FTSST250PR12
12-Fiber Ribbon Heat Shrink Splice Protectors	—	FXFUHSRIBEB12	—	—

Patch cords

2-Fiber Jumpers, Riser		Toolkits	
LC Duplex to LC Duplex (2.0 mm Duplex cord)	FPSLDLDxxxM	FX Brilliance Precision Installation Kit	AX104271
LC Duplex to ST (2.0 mm Duplex cord)	FPSLDSTxxxM	FX Fusion Splicer	FXFSTOSPL
SC Duplex to SC Duplex (3.0 mm Duplex cord)	FPSSDSDxxxM	FX Fusion Standard Toolkit	FXFSTOSTK
ST to ST (3.0 mm Duplex cord)	FPSSTSTxxxM	FX Fusion Precision Toolkit	FXFSTOPTK
LC Duplex to SC Duplex (2.0 mm Duplex cord)	FPSLDSDxxxM		
ST to SC Duplex (3.0 mm Duplex cord)	FPSSDSTxxxM		

Where xxx is the length in meters.



OS2 (Singlemode Fiber) | Pre-terminated system

Assemblies

MPO Trunks (Male to Male) Base-12, Plenum	Belden part number
12 fibers	FMSMMB1xxxMPMEY
24 fibers	FMSMMB2xxxMPMEY
36 fibers	FMSMMB3xxxMPUEY
48 fibers	FMSMMB4xxxMPUEY
72 fibers	FMSMMB6xxxMPUEY
96 fibers	FMSMMB8xxxMPUEY
144 fibers	FMSMMBDxxxMPUEY

MPO Trunks (Male to Male) Base-8, Plenum	Belden part number
8 fibers	FMS4MB1xxxMPMEY
16 fibers	FMS4MB2xxxMPMEY
24 fibers	FMS4MB3xxxMPMEY
32 fibers	FMS4MB4xxxMPUEY
48 fibers	FMS4MB6xxxMPUEY
64 fibers	FMS4MB8xxxMPUEY
96 fibers	FMS4MBDxxxMPUEY

Where xxx is the length in meters.

Other polarity options are available for MPO trunks and MPO patch cords: Type A and Type C

Other polarity options are available for MPO - LC harnesses

Cable harnesses/hydra cords

MPO(F) Base-12 to LC, Plenum	Belden part number
MPO(F) to LC Duplex, Type A (Straight polarity)	FPSLDMFxxxM
MPO(F) to LC Uniboot, Type A (Straight polarity)	FPSLUMFxxxM

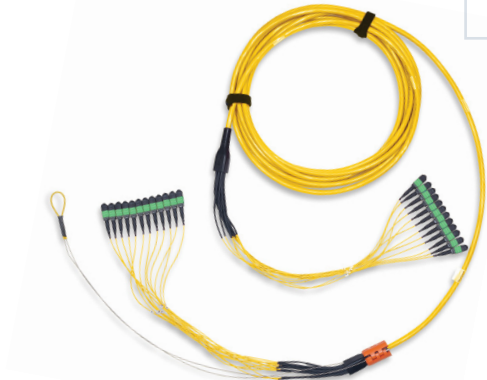
MPO(F) Base-8 to LC, Plenum	Belden part number
MPO(F) to LC Duplex SR4	FPSLD4FxxxM
MPO(F) to LC Uniboot SR4	FPSLU4FxxxM

Patch cords

MPO(F) to MPO(F) Fiber Jumpers, Plenum	Belden part number
MPO(F) to MPO(F) Base-12 Type B	FPSMFMFxxxM
MPO(F) to MPO(F) Base-8 Type B	FP44F4FxxxM

2-Fiber Jumpers, Riser	Belden part number
LC Uniboot to LC Uniboot (Mini-round 2f 2.0 mm)	FPSLULUxxxM
LC Duplex to LC Duplex (1.6 mm Duplex cord)	FPSLDLDxxxMR1XY
LC/APC Duplex to LC/APC Duplex (1.6 mm Duplex cord)	FPSLALAxxxMR1XY
LC Duplex to ST (1.6 mm Duplex cord)	FPSLDSTxxxMR1XY
LC Duplex to SC Duplex (1.6 mm Duplex cord)	FPSLDSDxxxMR1XY

Pre-terminated assemblies offer reduced cable stress (Integrated transition boot – bend radius control) 100 lbs pulling tension, faster pulling eye removal and easy patch panel attachment.



FiberExpress Enterprise Closet X system

Applications

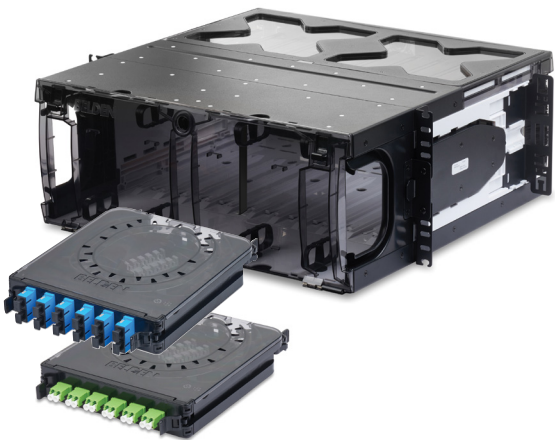
Belden's FiberExpress (FX) Enterprise Closet X (ECX) Patch Panel system is an elegant, intuitive and flexible solution designed to maximize installer flexibility when compared to industry-leading solutions. FX ECX has been optimized for LAN environments and AV applications, and provides an easy-to-deploy, efficient solution for installers.

Features

- Patent-pending front and rear removable cassettes on all housings (1U, 2U and 4U) for optimal installation and operation flexibility
- Mixed-media capable: Copper/fiber using Belden's KeyConnect frames
- Multiple options for cable strain relief to secure fiber cables coming into the housing
- Tool-less, removable, clear doors and top covers provide better access and visibility to the inside of the panel

Benefits

- Maximum installer flexibility for frequent moves, adds and changes (MAC) work with the front and rear removable cassettes on all housings
- Reduce space and cost: Simplified installation with fewer detachable components: Cassette rails molded into housing. No need for extra rail components that can get lost



Hardware

FX ECX Patch Panel	Belden part number
1U Housing (2 modules)	ECX-01U
2U Housing (4 modules)	ECX-02U
4U Housing (12 modules)	ECX-04U

FX ECX Wall-Mount Housings	Belden part number
2-Module Wall-Mount Housing	ECX-02WM
4-Module Wall-Mount Housing	ECX-04WM
6-Module Wall-Mount Housing	ECX-06WM
1-Cassette Wall-Mount Holder	ECX-01WH

Accessories

	Belden part number
Splice Tray Kit for 4U housing	ECX-SPLICEKIT
Managements Clips	ECX-MGTCLIPS
Door Lock Kit	ECX-LOCKKIT
Internal Strain Relief for 1U/2U	ECX-1U2U-INSTR
External Strain Relief for 1U/2U	ECX-1U2U-EXSTR



Adapter frames/cassettes

FX ECX Fiber Frames						
Ports (Fibers)	LC Duplex	SC Duplex	LC/APC Duplex	SC/APC Duplex	Ports (Fibers)	ST
3 (6)	FF _y X03LD	FF _y X03SD	FFSX03LA	FFSX03SA	6 (6)	FF _y X06ST
6 (12)	FF _y X06LD	FF _y X06SD	FFSX06LA	FFSX06SA	12 (12)	FF _y X12ST
12 (24)	FF _y X12LD	—	FFSX12LA	—	—	—

FX ECX Splice cassettes					
Ports (Fibers)	LC Duplex	SC Duplex	LC/APC Duplex	SC/APC Duplex	ST
3 (6)	—	FC _y X03SDFS	—	FCSX03SAFS	FC _y X06STFS
6 (12)	FC _y X06LDFP*	FC _y X06SDFS	FCSX06LAFS	FCSX06SAFS	FC _y X12STFS
12 (24)	FC _y X12LDFP*	—	FCSX12LAFS	—	—

Please note that Belden splice cassettes do not all come standard with pigtails, so both parts referenced would need to be ordered.

*Part numbers ending in “FP” come preloaded with pigtails.

Pre-terminated cassettes

FX ECX Pre-Terminated cassettes (Base-12)				
Ports (Fibers)	LC Duplex	SC Duplex	LC/APC Duplex	SC/APC Duplex
6 (12)	FC _y X06LDMF	FC _y X06SDMF	FCSX06LAMF	FCSX06SAMF
12 (24)	FC _y X12LDMF	—	FCSX12LAMF	—

Patch cords

FX ECX Pre-Terminated cassettes SR4 (Base-8)		
Ports (Fibers)	LC Duplex	LC/APC Duplex
4 (8)	FC _y X04LDMF	FCSX04LAMF
8 (16)	FC _y X08LDMF	FCSX08LAMF

Note: For Fiber Type Replace _y with 1 for OM1, 3 for OM3, 4 for OM4, S for OS2.

Standard FX ECX Splitter cassettes

Description (Upstream/downstream)	Splitter	Belden part number
SC/APC to LC/APC	Single 1×2	SCSX1102SLF
SC/APC to LC/APC	Single 1×4	SCSX1104SLF
SC/APC to LC/APC	Single 1×8	SCSX1108SLF
SC/APC to LC/APC	Single 1×16	SCSX1116SLF
SC/APC to LC/APC	Single 1×32	SCSX1132SLF
SC/APC to LC/APC	Single 2×4	SCSX1204SLF
SC/APC to LC/APC	Single 2×8	SCSX1208SLF
SC/APC to LC/APC	Single 2×16	SCSX1216SLF
SC/APC to LC/APC	Single 2×32	SCSX1232SLF
SC/APC to LC/APC	Dual 1×16	SCSX2116SLF
SC/APC to LC/APC	Dual 2×8	SCSX2208SLF
LC/APC to LC/APC	Dual 2×16	SCSX2216LLF
LC/APC to LC/APC	Quad 1×8	SCSX4108LLF
MPO/APC to LC/APC	Quad 2×8	SCSX4208MLF



FiberExpress ultra-high-density system

Applications

High-density computing and storage requires connectivity that scales to facilitate the evolution of both data center and LAN applications. The FiberExpress (FX) Ultra-High-Density (UHD) Fiber Connectivity System allows the highest density connectivity available, doubling density over comparable units. Elegantly simple, yet uncompromisingly flexible, this rack-mountable system is crafted for effortless installation and maintenance.

Features

- 1U, 2U and 4U configurations
- Cost effective, pre-terminated cable support; flexible field-termination options
- Ultra-high cabling density: up to 72 LC Duplex or 72 MPO adapters per rack unit

Benefits

- One system to learn: Common intuitive components and modular design means less systems to manage and simplified moves, adds, and changes (MACs)
- Space-saving: 50% more ports per rack unit



Hardware

FX UHD Patch panels	Belden part number
1U Housing (4 modules)	AX104681
2U Housing (8 modules)	AX104682
4U Housing (16 modules)	AX104683

FX UHD Shelves and cassette holders	Belden part number
1U Standard Fixed Shelf (4 modules)	AX105164
1U Recessed Fixed Shelf (4 modules)	AX105165
4U Standard Fixed Shelf (10 modules)	AX105166
4U Recessed Fixed Shelf (10 modules)	AX105167
Zero U Single Cassette Holder (1 module)	FXFUBRSHM
Zero U Double Cassette Holder (2 modules)	FXFUBRDHM

FX UHD Wall-mount housings	Belden part number
FX UHD Wall-Mount Patch Panel, Black (4 modules)	AX106817
FX Ultra Stackable Wall-Mount Patch Panel, Black (2 modules)	AX103928
Door Lock Kit	AX103934

Accessories

	Belden part number
FX UHD KeyConnect Frames 6-port	FFZH06KC
FX UHD Blank Plate	FFZH00BB
FX UHD Patch Cord release tool	AX104685
1U Rack-mount enclosure for cable tray mounting	XPE-S0003
2U Rack-mount enclosure for wire tray/ladder rack mounting	XPE-2U-0001
4U Rack-mount enclosure for wire tray/ladder rack mounting	XPE-4U-0001



Adapter frames/cassettes

FX UHD Fiber frames	Belden part number
18-port MPO FX UHD Adapter Frame	FFyH18MP
12-port MPO FX Ultra Adapter Frame	FFyU12MP
18-port LC Duplex FX UHD Adapter Frame	FFyH18LD
12-port LC Duplex FX UHD Adapter Frame	FFyU12LD

FX UHD Fiber cassettes, Base-12	Belden part number
18-port FX UHD MPO-12(F) to LC Duplex TYPE-A	FCyH18LDMF
12-port FX Ultra MPO-12(F) to LC Duplex TYPE-A	FCyU12LDMF
18-port FX UHD MPO-12(F) to LC Duplex TYPE-A-ALT	FCyH18LDMF1A
12-port FX Ultra MPO-12(F) to LC Duplex TYPE-A-ALT	FCyU12LDMF1A

FX UHD Fiber cassettes, Base-8	Belden part number
16-port (32f) FX UHD MPO-12 (8f) Female to LC Duplex	FCyH16LD4F
12-port (24f) FX Ultra MPO-12 (8f) Female to LC Duplex	FCyH12LD4F
8-port (16f) FX Ultra MPO-12 (8f) Female to LC Duplex	FCyH08LD4F
4-port (8f) FX Ultra MPO-12 (8f) Female to LC Duplex	FCyH04LD4F

Splice cassettes	Belden part number
12-port FX UHD MPO Splice Cassette	FCyH12MPFS
12-port FX UHD LC Duplex Splice Cassette	FCyH12LDFS

Standard SR4 Optimizer cassettes, Base-8	Belden part number
6-port FX Ultra MPO-12(12f) to MPO-12(8f)	FCyU064MMF
3-port FX Ultra MPO-12(12f) to MPO-12(8f)	FCyU034MMF

Note: For Fiber Type Replace y with 1 for OM1, 3 for OM3, 4 for OM4, S for OS2.

TAP cassette

					Belden part number	
Number of live A-Ports	TAP Ratio	Live A-Port	Live B-Port	TAP Port	OM4	OM3
6	70/30	LC Duplex	MPO Female (12f)	LC Duplex	TC4H06LDMFLD	TC3H06LDMFLD
2	70/30	LC Duplex	LC Duplex	LC Duplex	TC4H02LDLDLD	TC3H02LDLDLD
6	70/30	LC Duplex	MPO Female (12f)	MPO Male (12f)	TC4H06LDMFMM	TC3H06LDMFMM
4	70/30	MPO Female (8f)	MPO Female (8f)	MPO Male (8f)	TC4H044F4F4M	TC3H044F4F4M

Splitter cassettes

(Upstream/Downstream)	Splitter	Belden part number
SC/APC to LC/APC	Single 2×8	SCSU1208SLF
SC/APC to LC/APC	Single 2×16	SCSU1216SLF
SC/APC to LC/APC	Dual 2×8	SCSU2208SLF
MPO/APC to LC/APC	Quad 2×8	SCSH4208MLF
LC/APC to LC/APC	Quad 1×8	SCSH4108LLF
LC/APC to LC/APC	Dual 2×16	SCSH2216LLF
SC/APC to LC/APC	Dual 1×16	SCSH2116SLF
SC/APC to LC/APC	Single 2×32	SCSH1232SLF



DCX Optical Distribution Frame (ODF) system

Applications

The DCX System handles high amounts of fiber cables and adds density to fiber without compromising on ease of use. It features innovations like slide-out cassette trays, complete bend radius protection and multiple frame and cabinet configuration options. With the highest fiber termination density available, it ensures the ability to supports ever-increasing data center bandwidth, IP migration and new technologies requiring more fiber connections.

Features

- Highest per-square-foot fiber density while maximizing signal integrity and usability
- Modular cassettes and adapter frames are available in Base-8, Base-12 and Base-24, and can be mixed on the same housing tray without compromising system density (always 48 fibers)

Benefits

- Optimizes and futureproofs the ROI of your fiber infrastructure
- Reduces system deployment time by supporting easy system planning, quick assembly and fast termination
- Port-side labeling reduces opportunity for error and lowers costs associated with moves, adds and changes (MACs)
- Protects signal integrity and ensures optimal performance through bend radius control on incoming and outgoing cables



Hardware

Optical Distribution Frames (Cabinets)	Belden part number
Seismic, Left-Right Management, Cable entry and management, Top, rear and side panels	DCXS11-33121-22
Seismic, Left-Right Management, Cable entry and management, Top and rear panels	DCXS11-33101-22
Seismic, Right-Left Management, Cable entry and management, Top, rear and side panels	DCXS21-33121-22
Seismic, Right-Left, Cable Entry and Management, Top and Rear Panels	DCXS21-33101-22
Housings for Optical Distribution Frames	Belden part number
DCX Housing 4U, Left-Right w/12 Trays, Trunk & Patch Mgt (Capacity 12 Trays; 48 fibers per tray)	DCX-04FM-LR
DCX Housing 4U, Right-Left w/12 Trays, Trunk & Patch Mgt (Capacity 12 Trays; 48 fibers per tray)	DCX-04FM-RL
Rack-Mount DCX Patch Panels	Belden part number
DCX 1U Patch Panel Housing 48-port (1 Tray) Empty, Black finish	DCX-01RM-048P
DCX 2U Patch Panel Housing 96-port (2 Trays) Empty, Black finish	DCX-02RM-096P
DCX 4U Patch Panel Housing 192-port (4 Trays) Empty, Black finish	DCX-04RM-192P
DCX 1U Fixed Shelf (48-port), Black finish	DCX-01SH



Adapter frames/cassettes

Pre-terminated cassettes	Belden part number
6-port LC Duplex to MPO-12 Female Type-A	FC _y D06LDMF
6-port LC Duplex APC (OS2 Only) to MPO-12 Female Type-A	FCSD06LAMF
6-port SC Duplex to MPO-12 Female Type-A	FC _y D06SDMF
6-port SC Duplex APC (OS2 Only) to MPO-12 Female Type-A	FCSD06SAMF
4-port LC Duplex to MPO-12 (8f) Female SR4	FC _y D04LD4F
4-port LC Duplex APC (OS2 Only) to MPO-12 (8f) Female SR4	FCSD04LA4F
4-port SC Duplex to MPO-12 (8f) Female SR4	FC _y D04SD4F
4-port SC Duplex APC (OS2 Only) to MPO-12 (8f) Female SR4	FCSD04SA4F

Adapter frames	Belden part number
4-port LC Duplex adapter frame	FF _y D04LD
6-port LC Duplex adapter frame	FF _y D06LD
4-port LC Duplex APC adapter frame (OS2 Only)	FFSD04LA
6-port LC Duplex APC adapter frame (OS2 Only)	FFSD06LA
4-port SC Duplex adapter frame	FF _y D04SD
6-port SC Duplex adapter frame	FF _y D06SD
4-port SC Duplex APC adapter frame (OS2 Only)	FFSD04SA
6-port SC Duplex APC adapter frame (OS2 Only)	FFSD06SA
4-port MPO (KU/KD) adapter frame	FF _y D04MP
6-port MPO (KU/KD) adapter frame	FF _y D06MP

FTTx/PON Splitter Cassettes (Coming soon)	Belden part number
DCX Splitter Cassette OS2 2x8, SC/APC input, LC/APC output, Front access	SCSD1208SLF
DCX Splitter Cassette OS2 2x16, SC/APC input, LC/APC output, Front access	SCSD1216SLF
DCX Splitter Cassette OS2 2x32, SC/APC input, LC/APC output, Front access	SCSD1232SLF

Note: For Fiber Type Replace y with 3 for OM3, 4 for OM4, S for OS2.

Splice cassettes (Including 250 µm Pigtailed)	Belden part number
6-port LC Duplex Splice cassette	FC _y D06LDFP
6-port LC Duplex APC Splice cassette (OS2 Only)	FCSD06LAFP
12-port LC Duplex Splice cassette	FC _y D12LDFP
12-port LC Duplex APC Splice Cassette (OS2 Only)	FCSD12LAFP
6-port SC Duplex Splice Cassette	FC _y D06SDFP
6-port SC Duplex APC Splice Cassette (OS2 Only)	FCSD06SAFP

Splice cassettes (Including Mass Fusion Pigtailed)	Belden part number
6-port LC Duplex Splice cassette	FC _y D06LDFM
6-port LC Duplex APC Splice cassette (OS2 Only)	FCSD06LAFM
12-port LC Duplex Splice cassette	FC _y D12LDFM
12-port LC Duplex APC Splice cassette (OS2 Only)	FCSD12LAFM
6-port SC Duplex Splice cassette	FC _y D06SDFM
6-port SC Duplex APC Splice cassette (OS2 Only)	FCSD06SAFM

Splice Cassettes also available empty (type-FS) to use with Splice-On Connectors.

Other DCX Mounts and accessories	Belden part number
DCX Zero U Tray, Small with Magnets, Accepts 1 DCX Cassette Base-12 (not included)	DCX-ZUTR-S
DCX Zero U Tray, Large with Magnets, Accepts 2 DCX Cassette Base-12 (not included)	DCX-ZUTR-L
DCX Wall-Mount Cabinet ODF, Accepts 2 DCX Housings Left-Right (not included), Central Office White	AX109036
DCX Offset Brackets, 4U, Universal Spacing #12-24 (2 Pieces)	AX108831
DCX 1U Patch Panel Housing, 48-port (1 Tray), Empty, Black finish	DCX-01RM-048P
DCX 2U Patch Panel Housing, 96-port (2 Trays), Empty, Black finish	DCX-02RM-096P
DCX 4U Patch Panel Housing, 192-port (4 Trays), Empty, Black finish	DCX-04RM-192P

CABINET accessories

	Belden part number
DCX Horizontal In-Cabinet Channel Kit (1 Patch Cord Tray), Central office white	DCX-HINC-KIT01W
DCX Horizontal In-Cabinet Short Channel Kit (For End Cabinet), Central office white	DCX-HINC-KIT02W
DCX Horizontal In-Cabinet Front-To-Back Patch Cord Bridge, Black	DCX-HINB KIT01B
DCX Horizontal Rear Channel Kit (4 Patch Cord Trays), Left-Right, Central office white	DCX-HRRC-LR01W
DCX Horizontal Rear Channel Kit (4 Patch Cord Trays), Right-Left, Central office white	DCX-HRRC-RL01W
DCX Patch Cord Storage Module, Central Office White w/Black Door, w/15 Spools	DCX-PCST-MOD11W



FX Connector toolkits

FX Fusion Active Cladding Splicer kit*

FXFSTOSPL



*Belden's FX Fusion splicer is compatible with Splice Holder Family 2, part #FXFSSHFM2 (included), when terminating FX Fusion connectors

Precision toolkit for FX Fusion Splice-on connector

FXFSTOPTK



Fiber same-day shipping



Need fiber?

Have it shipped today!

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For a complete list of eligible products, please visit: www.belden.com/ship-same-day





Key North American locations

United States

Division Headquarters

401 Pennsylvania Parkway, #200
Indianapolis, IN 46280
USA
Phone: 317-818-6300
Inside Sales: 800-235-3361
Fax: 317-818-6382
info@belden.com

Canada

National Business Center

2310 Alfred-Nobel
St-Laurent Quebec H4S 2B4
Canada
Phone: 514-822-2345
Inside Sales: 800-235-3361
Fax: 514-822-7979
info@belden.com

Mexico

Regional Office

Av. de los Nogales
No. 290 Fracc. San Carlos,
Heroica Nogales C.P. 84090
Nogales, Sonora México
Phone: 52 0264 2060
Fax: 52 0264 2126
customerservice.mx@belden.com

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