BELDEN

OptiTuff® Mini Pre-Terminated Fiber Trunks

Belden's OptiTuff Mini Pre-Terminated Fiber Trunks are the only cable assemblies that combine the durability of metal armored solutions with the performance and installation ease of non-armored solutions. These cable assemblies don't just stand above other cable assemblies in their category—they stand alone. They provide a cost-effective, ruggedized option to replace traditional metal armored and non-armored fiber pre-terminated products in data centers, enterprise LAN environments, hospitality, gaming and casinos, etc.—with no grounding or conduit required. Fewer layers and the elimination of metal armor creates a lightweight cable with a high level of flexibility, plus a small diameter and small bend radius for easy cable preparation, installation and pulling.

Key Features

- Constructed of OptiTuff Mini Fiber Cable with Flexible Legs
- 90% lighter than traditional AIA trunks
- 66% smaller than traditional AIA trunks and up to 16% smaller than non-armored trunks
- Small bend radius for high-density raceway or tray installation (3 times smaller than non-armored; 9 times smaller than metal armored)
- Rugged enough to be stapled to walls

Key Applications

- Casino Slot Machines
- Control Room Monitoring Stations
- Data Center
- Distributed Antenna System (DAS)
- Video

Benefits at a Glance

- Small-diameter cables support space savings in high-density installations
- Lighter weight and anti-kink properties make pulling fast and easy
- Two times the crush resistance of non-armored trunks
- Increased flexibility as compared to metal armored trunks
- No grounding kit necessary, resulting in material and labor cost savings
- Ready for installation as soon as they arrive on the jobsite
- Up to 50% less expensive than traditional AIA trunks

Ordering Information

Standard Configurations

Description	Fiber Count	Belden Part Number		
		OM4	OS2 - UPC	OS2 - APC
10 m LC Duplex to LC Duplex with 1 m x 1.6 mm legs	2	FY42LDFLDFX010M	FYS2LDFLDFX010M	FYS2LAFLAFX010M
	6	FY46LDFLDFX010M	FYS6LDFLDFX010M	FYS6LAFLAFX010M
	12	FY4ALDFLDFX010M	FYSALDFLDFX010M	FYSALAFLAFX010M
	24	FY4CLDFLDFX010M	FYSCLDFLDFX010M	FYSCLAFLAFX010M
10 m LC Simplex to LC Simplex with 1 m x 900 µm legs	12	FY4ALCBLCBS010M	FYSALCBLCBS010M	FYSALBBLBBS010M
	24	FY4CLCBLCBS010M	FYSCLCBLCBS010M	FYSCLBBLBBS010M
10 m MPO to MPO Type B Base-12 (1 m Fan-out)	12	FY4AMMFMMFB010M	—	FYSAMMFMMFB010M
	24	FY4CMMFMMFB010M	—	FYSCMMFMMFB010M
10 m MPO to MPO Type B Base-8 (1 m Fan-out)	8	FY484MF4MFB010M	—	FYS84MF4MFB010M
	16	FY4B4MF4MFB010M	—	FYSB4MF4MFB010M
	24	FY4C4MF4MFB010M	—	FYSC4MF4MFB010M

*Smart*Part Configurator

Please select from options below to build your *Smart*Part number.

OptiTuff	1. Fiber Type	2. Fiber Count	3. Choose Connector 1	4. Choose Fan-Out Const x Length: Conn 1	5. Choose Connector 2	6. Choose Fan-Out Const x Length: Conn 2	7. Choose Subunit Type/ Configuration	8. Choose Length & UoM
FY	4	A	LD	F	LD	F	X	030M

Fiber Type	
4	OM4 EV
S	OS2

Fiber Count	
1	1 Fiber
2	2 Fibers
4	4 Fibers
6	6 Fibers
8	8 Fibers
A	12 Fibers
B	16 Fibers
C	24 Fibers

Connector 1	
LD	LC Duplex
LC	LC Simplex
LA	LC/APC Duplex
LB	LC/APC Simplex
LU	LC Duplex UHD Uni.
SD	SC Duplex
SC	SC Simplex
SA	SC/APC Duplex
SB	SC/APC Simplex
ST	ST
4M	MPO-12 (M) 40G
4F	MPO-12 (F) 40G
MM	MPO-12 (M)
MF	MPO-12 (F)

Fan-Out Const 1	
A	900 µm x 0.5 m x In-Line
B	900 µm x 1.0 m x In-Line
C	900 µm x 1.5 m x In-Line
D	900 µm x 2.0 m x In-Line
E	Jacketed x 0.5 m x In-Line
F	Jacketed x 1.0 m x In-Line
G	Jacketed x 1.5 m x In-Line
H	Jacketed x 2.0 m x In-Line

Connector 2	
LD	LC Duplex
LC	LC Simplex
LA	LC/APC Duplex
LB	LC/APC Simplex
LU	LC Duplex UHD Uni.
SD	SC Duplex
SC	SC Simplex
SA	SC/APC Duplex
SB	SC/APC Simplex
ST	ST
4M	MPO-12 (M) 40G
4F	MPO-12 (F) 40G
MM	MPO-12 (M)
MF	MPO-12 (F)
ZZ	OPEN

Fan-Out Const 2	
A	900 µm x 0.5 m x In-Line
B	900 µm x 1.0 m x In-Line
C	900 µm x 1.5 m x In-Line
D	900 µm x 2.0 m x In-Line
E	Jacketed x 0.5 m x In-Line
F	Jacketed x 1.0 m x In-Line
G	Jacketed x 1.5 m x In-Line
H	Jacketed x 2.0 m x In-Line
Z	250 µm x OPEN

Polarity	
X	A/B (Cross)
S	A/A (Straight)
A	Type A
B	Type B
C	Type C
4	SR4

Length	
5 M to 500 M M=Meters *use M as decimal	

Notes:

- Cable Overall Diameter: 4 mm
- Environment: Indoor
- Flame Ratings: OFNP-FT6
- Jacket Color: Yellow for singlemode and Erika Violet for OM4
- Connectors: LC (SX and DX), LC Uniboot, SC (SX and DX), ST, MPO
- Legs: MPO-12 Base-12 and Base-8 (3 mm), LC/SC/ST (1.6 mm or 900 µm), LC Uniboot (2 mm)
- Furcation tubes and connector colors to match today's assembly standards
- Cable pulling tension: 25 lbs
- Pulling eye at outside end is installed for assemblies longer than or equal to 5 m

Examples:

FY4ALDFLDFX030M - OptiTuff Mini Trunk, OM4,12 Fibers, LC Duplex (Jacketed x 1.0 m x In-Line) - LC Duplex (Jacketed x 1.0 m x In-Line), A To B, OFNP, 30 m, Erika Violet Jacket

FY4AMMFMMFB010M - OptiTuff Mini Trunk, OM4, 12 Fibers, MPO 12(M) (Jacketed x 1.0 m x In-Line) - MPO 12(M) (Jacketed x 1.0 m x In-Line), Type-B, OFNP, 10 m, Erika Violet Jacket

FY4ALDFMMFA005M - OptiTuff Mini Trunk, OM4, 12 Fibers, LC Duplex (Jacketed x 1.0 m x In-Line) - MPO-12 (M) (Jacketed x 1.0 m x In-Line), Type-A, OFNP, 5 m, Erika Violet Jacket