

OptiTuff® Mini Pre-Terminated Fiber Trunks

PRODUCT BULLETIN

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	FY42LDLDFX010M	FYS2LDLDFX010M	FYS2LAFLAFX010M
	6	FY46LDLDFX010M	FYS6LDLDFX010M	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	FY4AMFMMFB010M	—	FYSAMFMMFB010M
	24	FY4CMFMMFB010M	—	FYSCMFMMFB010M
10 m MPO to MPO Type B Base-8 (1 m Fan-out)	8	FY48MF4MFB010M	—	FYS8MF4MFB010M
	16	FY4B4MF4MFB010M	—	FYSB4MF4MFB010M
	24	FY4C4MF4MFB010M	—	FYSC4MF4MFB010M



SmartPart Configurator

Please select from options below to build your SmartPart number.

FX 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	Fiber Count	Connector 1	Fan-Out Const 1	Connector 2	Fan-Out Const 2	Polarity	Length
4 OM4 EV	1 1 Fiber	LD LC Duplex	A 900 µm x 0.5 m x In-Line	LD LC Duplex	A 900 µm x 0.5 m x In-Line	X A/B (Cross)	5 M to 500 M M=Meters *use M as decimal
S OS2	2 2 Fibers	LC LC Simplex	B 900 µm x 1.0 m x In-Line	LC LC Simplex	B 900 µm x 1.0 m x In-Line	S A/A (Straight)	
	4 4 Fibers	LA LC/APC Duplex	C 900 µm x 1.5 m x In-Line	LA LC/APC Duplex	C 900 µm x 1.5 m x In-Line	A Type A	
	6 6 Fibers	LB LC/APC Simplex	D 900 µm x 2.0 m x In-Line	LB LC/APC Simplex	D 900 µm x 2.0 m x In-Line	B Type B	
	8 8 Fibers	LU LC Duplex UHD Uni.	E Jacketed x 0.5 m x In-Line	LU LC Duplex UHD Uni.	E Jacketed x 0.5 m x In-Line	C Type C	
	A 12 Fibers	SD SC Duplex	F Jacketed x 1.0 m x In-Line	SD SC Duplex	F Jacketed x 1.0 m x In-Line	4 SR4	
	B 16 Fibers	SC SC Simplex	G Jacketed x 1.5 m x In-Line	SC SC Simplex	G Jacketed x 1.5 m x In-Line		
	C 24 Fibers	SA SC/APC Duplex	H Jacketed x 2.0 m x In-Line	SA SC/APC Duplex	H Jacketed x 2.0 m x In-Line		
		SB SC/APC Simplex		SB SC/APC Simplex			
		ST ST		ST ST			
		4M MPO-12 (M) 40G		4M MPO-12 (M) 40G			
		4F MPO-12 (F) 40G		4F MPO-12 (F) 40G			
		MM MPO-12 (M)		MM MPO-12 (M)			
		MF MPO-12 (F)		MF MPO-12 (F)			
				ZZ OPEN			

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

FY4AMFMMFB010M - 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

FY4ALDFMFA005M - 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



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