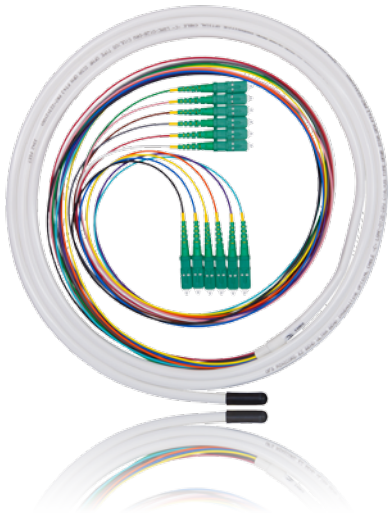




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HomeRun MDU Cabling System

A FOX Solution® Component Set



Product Description

Traditional solutions require difficult field bundling and pulling of large diameter multiple drop cables assemblies up a riser and down a hallway, or installing two segments of smaller connectorized cable in the riser and hallway. Other more recent solutions use drop cabling bundled together with strands that can catch on objects making installation difficult. The OFS HomeRun MDU Cabling Solution uses drop cabling bundled in the factory with a low friction sheath enabling 12 compact drop cords to be easily pulled up a riser and down a hallway in a single step.

The HomeRun Solution features OFS' ultra-bend-insensitive EZ-Bend® Fiber, which offers less than 0.1 dB of added loss at 1550 nm for 1 turn at a 5 mm bend radius, and is fully compatible with the installed base of fibers. The use of EZ-Bend Fiber assemblies allows for sharp bends and conformal routing to reduce visual impact and fit in the confined spaces typical in many MDUs and residences.

MiniCord Breakout Cable

The OFS MiniCord Riser-Rated Breakout Cable answers the need for a robust and reliable cabling solution that can handle virtually any indoor application or equipment room.

Applying the Solution

The HomeRun Solution begins with a compact MiniCord® Breakout Cable containing EZ-Bend Fibers in 1.6 mm cords in a single low friction sheath. One end of the cable terminated with SC or LC Connectors that are plugged directly into the FOX Solution 144 FDH, 64 mini-FDH, or V-Linx™ Terminal. The other end is pulled up the riser and down the hallway past each living unit. The solution can be installed in moldings or above suspended ceilings. It is optimized for garden style low rise MDUs.

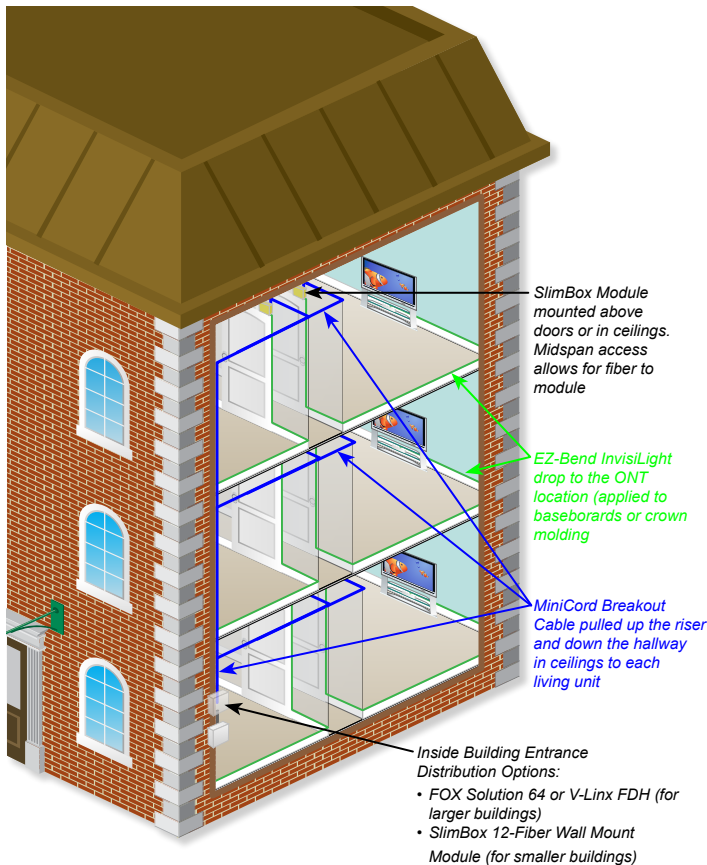
At each Living Unit, the outer sheath can be removed with simple tooling and a color coded 1.6 mm cord and terminated with an OFS mechanical or fusion splice mounted connector, and plugged into the OFS SlimBox™ Interconnection Module. From that point the living unit is ready to accept a fast and easy service connection using an EZ-Bend® InvisiLight™ 4.8 mm or 3.0 mm drop cable into the residence to the ONT location.

See next page for a visual of the solution.



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Color coded small 1.6 mm cords allow easy and accurate fiber tracing and connection from entry point to living unit along with fast easy stripping and termination.

Midspan Access

Features

- EZ-Bend Fiber exhibits less than 0.1 dB macrobending attenuation at 1550 nm for 1 turn at 5 mm fiber bend radius
- EZ-Bend Fiber or AllWave® ZWP FLEX+ Fiber is fully splice-compatible with the existing installed base of fibers
- 100% Factory Tested
- Color-coded subunits provide easy fiber identification
- Small 1.6 mm cordage speeds stripping and termination process
- Eliminates need for and loss of riser to hallway fiber connections
- High Reliability
- Installation in space-constrained hallways
- RoHS compliant; free from heavy metals and environmentally friendly
- UL Listed Riser per UL 1666 Riser Flame Test and CSA certified per OFN FT4

Maximum Cable Attenuation			
Single-Mode Fibers (dB/km)	1310 nm	1385 nm	1550 nm
EZ-Bend and AllWave FLEX+ ZWP Single-Mode Fiber	0.4	0.4	0.3

Connectorized Assembly Performance Specifications	
Insertion Loss (dB), maximum	0.3 dB
Return Loss (dB), minimum	-65 dB for APC and -55 dB for UPC
Mating Durability	100 reconnects
Operating Temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Storage Temperature	-40 °F to 185 °F (-40 °C to 85 °C)

Specifications			
Fiber Count	4	8	12
Cable Outer Diameter – in. (mm)	0.21 (5.4)	0.28 (7.1)	0.30 (7.6)
Cable Weight – lb/kft (kgm/km)	14.6 (21.75)	29 (42.2)	30 (44.6)

Performance Standard
 Tested per Applicable Requirements of TIA/EIA 455, IEC 60794, UL 1666, OFN FT4 and Telcordia Technologies 409.

Handling			
Fiber Count	4	8	12
Maximum Tensile Rating lb (N)	150 (667)	300 (1334)	400 (1779)
Temperature: Installation: -0 °C to 50 °C (22 °F to 122 °F) Operation: -20 °C to 70 °C (-4 °F to 158 °F) Storage: -40 °C to 70 °C (-40 °F to 158 °F)			



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Residence Access Point

SlimBox 4-Fiber Rosette Module

The SlimBox 4-Fiber Rosette Module is used as a distribution or termination point for optical fiber in an indoor environment.

Features

- Allows termination of an optical cable using direct connectorization or splicing (fusion or mechanical) to optical extensions (pigtailed) of two optical fibers without a tray
- Optional splice tray compactly designed to accommodate up to four G.657A or B (Bend-Insensitive) fibers or optical splitters
- Up to two optical adapters (SC type) can be placed in the module
- Module may be accessed by four cables (two in the bottom; one superior; one at the right side; and one in the back [from the wall])

Application Environments: Indoor



SlimBox 4-Fiber Rosette Module

Inside Building Entrance Distribution Options

FOX Solution 64 and V-Linx FDH Solutions

The Fiber Distribution Hubs (FDH) offered by OFS can support up to 144 units/128 splitter ports and is designed for NEMA 12 performance. The FDH is size-optimized by leveraging the very compact PLC Splitter. Its flexible design supports either mass fusion splicing in the field or rapid connection through multifiber push-on (MPO) terminations.

Features

- Design enabled by AllWave® FLEX ZWP Fiber
- Uses compact PLC Splitter technology
- Quick provisioning of circuits with SCA connectors
- Minimal cable management from use of optimized splitter cable lengths



V-Linx FDH

SlimBox 12-Fiber Wall-Mount Module

The SlimBox 12-Fiber Wall Mount Module is both a termination and splice point for optical fiber in an indoor wall mounted environment. Cable entry from the bottom and grommets allow for pass through of the fiber without splicing. The additional splice tray provides pigtail and fanout splicing (single fusion splicing). Various panels are provided with the module for the termination of SC, FC, ST and LC (duplex) connectors.

Features

- Splice tray holds either 40 mm single fusion splice sleeves or bare planar splitters
- Cable entry from enclosure bottom
- Multiple panels for housing adapters

Application Environments: Indoor



SlimBox 12-Fiber Wall-Mount Module



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HomeRun MDU Cabling System

Ordering Information

Connectorized Cable*

Product Code	Cable Type	Outside/Inside End Connector	Length†
MDW04-SCAUNC-030M	LGMC EZ-Bend® White Jacket	SCA/UNC	30 meters
MDW08-SCAUNC-030M			
MDW12-SCAUNC-030M			
MWW04-SCAUNC-030M	LGMC AllWave <i>FLEX+</i> White Jacket		
MWW08-SCAUNC-030M			
MWW12-SCAUNC-030M			

*1.6 mm subunits (M) with either EZ-Bend (D) or AllWave *FLEX+* (W) in white (W) subunit count (12)

† Additional lengths available upon request

SlimBox

Product Description	Comcode
SlimBox-V, Indoor MDU-12 Fiber	301039228
SlimBox-V, Indoor Rosette Module-2 Fiber	301039210
MSOCA Mechanical Connector	301066247

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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