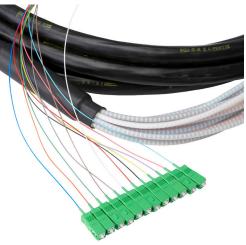
Fiber Cable Assemblies Outside Plant Fiber Assemblies

Application

Clearfield[®] Outside Plant Fiber Assemblies are used in a variety of applications including DLC cabinets, PON cabinets, cross-connect cabinets and fiber termination panels. Standard OSP cable is used and the terminated end of the assembly is up-jacketed with either 900 µm or 2 mm tubing. The assembly is then terminated with the required connectors. Fiber counts can be from 2 to 288 fibers.

Description

Clearfield OSP Fiber Assemblies are designed to perform flawlessly in even the most harsh environments. Our process and design directly addresses failure prone areas such as the transition (where the fiber is broken out into individual units) and at the termination. We use a patented process in the fiber transition that not only protects the fiber but also ensures that no lateral movement occurs due to temperature variations. Standard breakouts are half meter and one meter. Clearfield can also do custom breakouts to meet your unique panel needs.



Features and Benefits

Integrity

- · Cable and terminations are designed, tested and certified to GR-20, GR-326 and GR-1435
- · Specialty cable designs available including ribbon fiber, loose-tube and ADSS (All-Dielectric Self-Supporting)
- · Supports industry standard singlemode and multimode fiber

Protection

- · Rugged cable design protects against harsh outdoor environment
- Wide variety of up-jacket sizes for all applications, ruggedized 3 mm, 2 mm, 1.6 mm and 900 μm
- · Loose tube available in a gel-filled design for full water-block or gel-free
- · All dielectric design (except armored cable)
- · Pulling-eye available to ease installation and for added protection

Access

- · Industry standard terminations include SC and LC (ask a Clearfield representative for other connector availability)
- · Versatile cable designs well suited for in-conduit, lashed aerial and direct buried applications
- · Fiber counts from two to 288 in loose tube or ribbon cables (higher fiber counts available)

Investment

- · Outside Plant Fiber Assemblies offer a rugged solution for deploying fiber in any OSP optical network
- Environmentally stable, low-insertion loss, minimal back reflection
- · All assemblies are 100% tested

Recommendation

When designing a patch cord (double-ended assembly) that will be pulled through conduit a pulling eye may be a good solution. Any assembly with 24 fibers or less can be fitted with a pulling eye.

Technical Specifications

Outside Plant Fiber Assembl	de Plant Fiber Assemblies		
Core Size and Type	Singlemode and multimode		
Fiber Count	2-fiber to 288-fiber		
Jacket O.D.	900 μm, 2.0 mm (48-fiber max), 3mm (for MPO terminations only)		
Cable Types	Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated)		
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC, MPO		
Operating Temperature	-40°C to 85°C (-40°F to 185°F)		
Breakout Length	Half meter, one meter, pulling eye, custom		

Fiber Cable Assemblies *Outside Plant Fiber Assemblies*



Minimum Performance Specifications for Terminated Singlemode Connectors

Connector Type	Ferrule Material	Polish Type	Ins. Loss, Typical	Max. Ins. Loss	Min. Ret. Loss
SC	Ceramic	UPC	0.15 dB	0.30 dB	55.00 dB
LC	Ceramic	UPC	0.15 dB	0.30 dB	55.00 dB
SC	Ceramic	APC	0.20 dB	0.30 dB	65.00 dB
LC	Ceramic	APC	0.20 dB	0.30 dB	65.00 dB

Minimum Performance Specifications for Terminated Multimode Connectors

(Connector Type	Ferrule Material	Polish Type	Ins. Loss, Typical	Max. Ins. Loss
	SC	Ceramic	PC	0.25 dB	≤ 0.50 dB
	ĹĊ	Ceramic	PC	0.25 dB	≤ 0.50 dB

Configured Part Numbers

Disclaimer/Note: Paper configurator shown is for reference only and should not be used to configure a saleable product configuration. All options shown on paper configurators may not be available or compatible with other options listed. Please contact your Clearfield representative for assistance in product configurations.

0·	XXXM or XXXF		
1 2 3	4 5 6 7 8 9		
 Select Cable Construction B = OSP, riser rated E = OSP, non-rated M = OSP, armored, non-rated Select Mode / Type 1 = Singlemode, loose tube 	4 Select Connector # 1 A = SC/UPC 5 = MPO male C = SC/APC 6 = MPO female E = LC/UPC G = LC/APC 5 Select Breakout # 1	7Select Connector # 2A = SC/UPCP = Pulling EyeC = SC/APCZ = PigtailE = LC/UPC5 = MPO maleG = LC/APC6 = MPO female8Select Breakout # 2	
2 = Singlemode, ribbon 3 = Multimode (62.5) loose tube 4 = Multimode (62.5) ribbon 5 = Multimode (50 μm) loose tube 6 = Multimode (50 μm) ribbon 7 = Multimode (50 μm LO) loose tube 8 = Multimode (50 μm LO) ribbon 3 Select Fiber Count *	B = 1 meter C = 0.5 meter 6 Select Upjacketing # 1 A = 900 μm B = 2 mm (only up to 24 fiber) D = 3 mm	B = 1 meter C = 0.5 meter Z = Pigtail 9 Select Upjacketing # 2 A = 900 μ m B = 2 mm (only up to 48 fiber) Z = Pigtail	
X X X = port count in increments of 12 * Some fiber counts including fiber quantities not divisible by 12 may be built with the next highest fiber count cable (i.e. – A 60- fiber assembly may be built using a 72-count fiber where the 1 st 60 fiber will be terminated and the final 12 fibers will be cut off at the breakout point.		XXXM or XXXF XXXM = Length in meters XXXF = Length in feet	