



### Application

Clearfield's OSP Fiber Assemblies are used in a variety of applications. Some of these include DLC cabinets, PON and Cross-Connect cabinets and Fiber Termination Panels. Standard OSP cable is used, and the terminated end of the assembly is up-jacketed with either 900um or 2mm tubing. The assembly is then terminated with the required connectors. Fiber counts can be from one to 144 fibers.

### Description

Clearfield's outside plant cable 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.

### Features & Benefits

- Rugged cable design protects against harsh outdoor environments
- UL Listed OFN (Polyethylene), OFNR, OFNP, and armored cable designs available
- Small form factor cable design available for high-density applications
- Loose tube gel-filled design is fully water-blocked
- All dielectric design (except armored cables)
- Specialty cable designs available including ribbon fiber, high-fiber count, ADSS, and ruggedized break-out cables
- Versatile cable designs well suited for in-conduit, lashed aerial, direct burial, and indoor (riser and plenum versions) applications
- Single tube design up to 12 fiber
- Fiber counts from 2 to 864 in loose tube or ribbon available (higher fiber counts available for ribbon upon request)
- Color-coded 900 micron breakout kits installed to add strength and flexibility
- 3mm breakout kits available for demanding environments

### Recommendations

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. Standard breakouts are half-meter and one-meter. Clearfield can also do custom breakouts to meet your unique panel needs.



### Specifications

Minimum Performance Specifications for Terminated <b>SINGLEMODE</b> Connectors					
Connector Type	Ferrule Material	Polish Type	Ins. Loss, Typical (dB)	Max. Ins. Loss (dB)	Min. Ret. Loss (dB)
ST	Ceramic	UPC	0.15	0.30	57.00
SC	Ceramic	UPC	0.15	0.30	57.00
FC	Ceramic	UPC	0.15	0.30	57.00
LC	Ceramic	UPC	0.15	0.30	55.00
SC	Ceramic	APC	0.20	0.30	70.00
FC	Ceramic	APC	0.20	0.30	70.00
LC	Ceramic	APC	0.20	0.30	70.00

Minimum Performance Specifications for Terminated <b>MULTIMODE</b> Connectors				
Connector Type	Ferrule Material	Polish Type	Ins. Loss, Typical (dB)	Max. Ins. Loss (dB)
ST	Ceramic	PC	0.25	≤0.50
SC	Ceramic	PC	0.25	≤0.50
FC	Ceramic	PC	0.25	≤0.50
LC	Ceramic	PC	0.25	≤0.50
ST	Stainless Steel	Flat	0.40	≤0.75

### Configured Part Numbers

0 - - - - - XXXM or XXXF

<p><b>1</b> Select cable construction</p> <p>B = OSP, riser rated          E = OSP, non-rated          M = OSP, armored, gel filled, non-rated          P = OSP, riser rated, gel free          R = OSP, armored, gel free, riser rated</p> <p><b>2</b> Select Mode / Type</p> <p>1 = Singlemode, loose tube          2 = Singlemode, ribbon          3 = Multimode (62.5), loose tube          4 = Multimode (62.5), ribbon</p>	<p><b>3</b> Select fiber count *</p> <p>X X X = port count in increments of 12</p> <p>* 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<sup>st</sup> 60 fiber will be terminated and the final 12 fibers will be cut off at the breakout point.</p> <p><b>4</b> Select Connector # 1</p> <p>A = SC UPC          C = SC APC          E = LC UPC          G = LC APC          J = FC UPC          K = FC APC          M = ST UPC</p>	<p><b>5</b> Select breakout # 1</p> <p>B = 1 meter          C = 0.5 meter</p> <p><b>6</b> Select upjacketing # 1</p> <p>A = 900 micron          B = 2mm</p> <p><b>7</b> Select Connector # 2</p> <p>A = SC UPC          C = SC APC          E = LC UPC          G = LC APC          J = FC UPC          K = FC APC          M = ST UPC          Z = Pigtail</p>	<p><b>8</b> Select breakout # 2</p> <p>B = 1 meter          C = 0.5 meter          Z = Pigtail</p> <p><b>9</b> Select upjacketing # 2</p> <p>A = 900 micron          B = 2mm          Z = Pigtail</p> <p><b>XXXM or XXXF</b></p> <p>XXXF = Length of assembly in feet          XXXM = Length of assembly in meters</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------