

# Fiber Cable Assemblies

## Distribution Assemblies

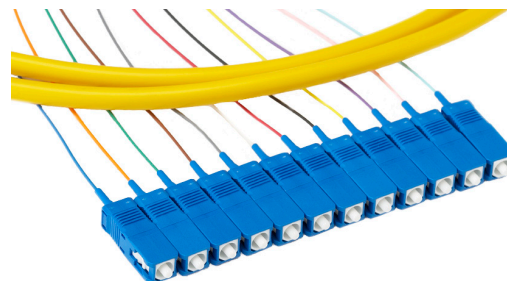


### Application

Distribution assemblies are used for applications inside buildings and central offices. These cables utilize a 900  $\mu\text{m}$  tight buffer jacket and are available in plenum and riser versions.

### Description

Clearfield® Distribution Assemblies are used where multi-fiber tight buffered constructions are required for density. These assemblies combine the bandwidth capacity of individual cable assemblies in one easy-to-use assembly, and can be used in OSP patch and splice (Clearfield's in-cassette splicing solution) applications.



### Features and Benefits

#### Integrity

- Terminations are designed and tested to Telcordia GR-326
- Supports Industry standard singlemode and multimode connectors
- Singlemode and multimode and hybrid cables available

#### Protection

- Each fiber is individually jacketed then covered with an outer jacket for added protection
- All fibers are color coded using industry fiber color code
- Pulling-eye kits available to speed installation

#### Access

- Compact jacket design keeps cable pile up minimal
- Industry standard terminations include SC and LC (Ask a Clearfield representative for other connector availability)

#### Investment

- Distribution Assemblies offer an economical solution for deploying fiber in any optical network
- Environmentally stable, low-insertion loss, minimal back reflection
- All assemblies are 100% tested

### Technical Specifications

| Distribution Assemblies |  |
|-------------------------|--|
| Core Size and Type      | Singlemode and multimode                   |
| Fiber Count             | 2-fiber to 144-fiber                       |
| Jacket O.D.             | 900 $\mu\text{m}$                          |
| Cable Types             | Indoor Riser, Indoor Plenum                |
| 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 |

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### 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      |
| LC             | 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.*

**D**          -        -          **A** -          **A**   **XXXX or XXXF**

1

2

3

4

5

6

7

**1 Select Cable Constuction**  
A = Indoor, riser rated  
C = Indoor, plenum rated

**2 Select Mode/Type**  
1 = Singlemode, tight buffer  
2 = Singlemode, ribbon  
3 = Multimode (62.5), tight buffer  
5 = Multimode (50), tight buffer  
7 = Multimode (50) laser opt – tight buffer OM3

**3 Select Fiber Count \***  
XXX = Fiber count

**4 Select Connector #1**  
A = SC/UPC                      Z = None  
C = SC/APC                    5 = MPO male  
E = LC/UPC                    6 = MPO female  
G = LC/APC

**5 Select Breakout #1**  
B = 1 meter  
C = 0.5 meter

**6 Select Connector #2**  
A = SC/UPC                    Z = None  
C = SC/APC                    5 = MPO male  
E = LC/UPC                    6 = MPO female  
G = LC/APC

**7 Select Breakout # 2**  
B = 1 meter  
C = 0.5 meter  
P = Pulling eye \*\*  
Z = Pigtail

**XXXX or XXXF**  
XXXX = Length in Meters  
XXXF = Length in Feet

\* 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= 60 fibers will be terminated and the final 12 fibers will cut off at the breakout point).

\*\* Pulling eyes can be installed on fiber assemblies up to a 24-fiber count.