

Fiber Cable Assemblies

Distribution Assemblies

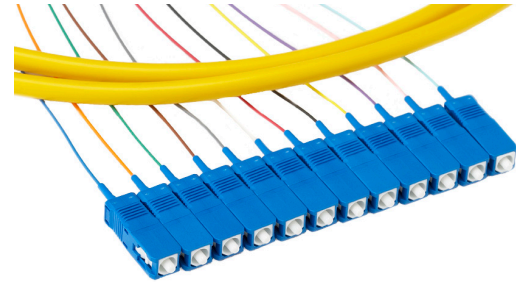


Application

Distribution assemblies are used for applications inside buildings and central offices. These cables utilize a 900 μm 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 ST, SC, FC, 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 μm |
| Cable Types | Indoor Riser, Indoor Plenum |
| Connector Types | SC/UPC, SC/APC, LC/UPC, LC/APC, FC/UPC, FC/APC, ST/UPC, 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 |
|----------------|------------------|-------------|--------------------|----------------|----------------|
| ST | Ceramic | UPC | 0.15 dB | 0.30 dB | 55.00 dB |
| SC | Ceramic | UPC | 0.15 dB | 0.30 dB | 55.00 dB |
| FC | 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 |
| FC | 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 |
|----------------|------------------|-------------|--------------------|----------------|
| ST | Ceramic | PC | 0.25 dB | ≤ 0.50 dB |
| SC | Ceramic | PC | 0.25 dB | ≤ 0.50 dB |
| FC | Ceramic | PC | 0.25 dB | ≤ 0.50 dB |
| LC | Ceramic | PC | 0.25 dB | ≤ 0.50 dB |

Configured Part Numbers

D - - A - A XXXM or XXXF

1 Select Cable Construction

A = Indoor, riser rated
C = Indoor, plenum rated

4 Select Connector #1

A = SC/UPC K = FC/APC
C = SC/APC M = ST/UPC
E = LC/UPC 5 = MPO male
G = LC/APC 6 = MPO female
J = FC/UPC

7 Select Breakout # 2

B = 1 meter
C = 0.5 meter
P = Pulling eye **
Z = Pigtail

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

5 Select Breakout #1

B = 1 meter
C = 0.5 meter

XXXM or XXXF

XXXM = 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 1st 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.

3 Select Fiber Count *

XXX = Fiber count

6 Select Connector #2

A = SC/UPC K = FC/APC
C = SC/APC M = ST/UPC
E = LC/UPC 5 = MPO male
G = LC/APC 6 = MPO female
J = FC/UPC Z = None