

Fiber Cable Assemblies

Breakout Assemblies

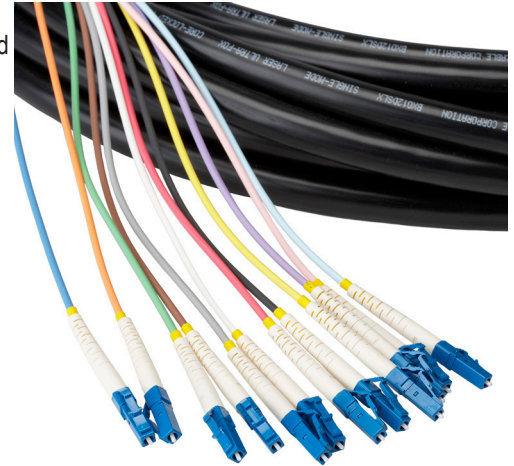


Application

Breakout Assemblies are appropriate for low to mid-fiber count applications in demanding indoor and outdoor environments. Common uses include manufacturing areas, unprotected communication closets and small central offices.

Description

Breakout style assemblies are easy to install and simple to terminate without the need for fan-out kits. The indoor/outdoor version of this cable is durable and OFNR rated. While it can be used indoors, it also has a -40°C to 85°C operating temperature range and the benefits of fungus, water and UV protection making it perfect for outdoor applications. The indoor/outdoor versions come standard with 2.5 mm sub units. The indoor only cable is standard with 2 mm sub units.



Features and Benefits

Integrity

- Terminations are designed and tested to Telcordia GR-326
- Specialty rugged cable designs
- Supports industry standard singlemode and multimode fiber

Protection

- Rugged cable design protects against harsh indoor and outdoor environments
- Wide variety of jacket sizes for all applications, ruggedized 3 mm, 2.5 mm and 2 mm
- Riser and Plenum and fire retardant rated cable jackets available
- Pulling-eye available to ease installation and for added protection

Access

- Industry standard terminations include SC and LC (Ask a Clearfield® representative for other available connectors)
- Versatile cable designs well suited for in-conduit, lashed aerial and direct buried applications
- Fiber counts from 2 to 48

Investment

- Breakout Fiber Assemblies offer a rugged solution for deploying fiber in any indoor/outdoor optical network
- Environmentally stable, low-insertion loss, minimal back reflection
- All assemblies are 100% tested

Recommendation

Consider using indoor/outdoor versions for use in DLC cabinets or outside plant electronic cabinets as a “tip” cable. The blunt end will be spliced in a splice vault and the other end will be plugged into the electronics inside the cabinet.

The 2 mm indoor version is ideal for use in cross-connect solutions. One end is loaded into the rear of a patch panel and the other end can be staggered to match any active gear blade.

Technical Specifications

Breakout Assemblies	
Core Size and Type	Singlemode and multimode
Fiber Count	2-fiber to 48-fiber
Jacket O.D.	2.0 mm (indoor), 2.5 mm (indoor/outdoor)
Cable Types	Indoor Riser, Indoor/Outdoor (Riser)
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC
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.

B **1** **2** **3** **4** **5** **6** **7** **8** **9**

XXXM or XXXF

1 Select Cable Construction
A = Indoor, riser rated
B = Outdoor, riser rated

2 Select Mode / Type
1 = Singlemode
3 = Multimode (62.5)
5 = Multimode (50 μm)

3 Select Fiber Count *
X X X = port count in increments of 12
Max = 48

4 Select Connector # 1
A = SC/UPC
C = SC/APC
E = LC/UPC
G = LC/APC

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

6 Select Upjacketing # 1
B = 2 mm
C = 2.5 mm

7 Select Connector # 2
A = SC/UPC
C = SC/APC
E = LC/UPC
G = LC/APC
Z = Pigtail

8 Select Breakout # 2
B = 1 meter
C = 0.5 meter
P = Pulling eye
Z = Pigtail

9 Select Upjacketing # 2
B = 2 mm
C = 2.5 mm
Z = Pigtail

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 fiber will be terminated and the final 12 fibers will be cut off at the breakout point).