

# Clearfield Fiber Assemblies

## Assemblies: Breakout



### Application

Breakout cable is 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 cables are easy to install and simple to terminate without the need for fan-out kits. Indoor/Outdoor versions of this cable are durable cables that are OFNR rated so they can be used indoors, while also having a -40c to +85c operating temperature range and the benefits of fungus, water and UV protection making them perfect for outdoor applications. The indoor/outdoor versions come standard with 2.5mm sub units. The indoor only cable is standard with 2mm sub units.

### Features & Benefits

- Extra rugged cable with individual compact components for each tight-buffered fiber
- Each jacketed sub-cable contains one tight buffered fiber and aramid strength yarns
- Riser, plenum and fire retardant rated cable jacket available
- User-friendly with easily identifiable cable sub-units which are compatible with standard connectors
- Aramid strength member/jacket construction makes high-tensile strength terminations possible
- Versatile cable designs well suited for in-conduit, lashed aerial, direct burial, and indoor (riser and plenum versions) applications
- Fiber counts from 4 to 144



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### Recommendations

Consider using indoor/outdoor versions for use in DLC cabinets or OSP 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 2mm indoor version are 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.

### Specifications - Multimode

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

### Specifications - Singlemode

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

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### Ordering Guide

B									XXXM or XXXF
1	2	3	4	5	6	7	8	9	
<b>1 Select cable construction</b> A = Indoor, riser rated B = Outdoor, riser rated	<b>2 Select Mode / Type</b> 1 = Singlemode, tight buffer 3 = Multimode (62.5), tight buffer 5 = Multimode (50), tight buffer	<b>3 Select fiber count *</b> 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 <sup>st</sup> 60 fiber will be terminated and the final 12 fibers will be cut off at the breakout point.	<b>4 Select Connector # 1</b> A = SC UPC C = SC APC E = LC UPC G = LC APC J = FC UPC K = FC APC M = ST UPC	<b>5 Select breakout # 1</b> B = 1 meter C = 0.5 meter P = Pulling eye	<b>6 Select upjacketing # 1</b> B = 2mm C = 2.5mm	<b>7 Select Connector # 2</b> A = SC UPC C = SC APC E = LC UPC G = LC APC J = FC UPC K = FC APC M = ST UPC Z = Pigtail	<b>8 Select breakout # 2</b> B = 1 meter C = 0.5 meter P = Pulling eye Z = Pigtail	<b>9 Select upjacketing # 2</b> B = 2mm C = 2.5mm Z = Pigtail	
						<b>XXXM or XXXF</b> XXXF = Length of assembly in feet XXXM = Length of assembly in meters			

OUTSIDE PLANT