

# Fiber Cable Assemblies

## 90 Degree Drop Node Assemblies



### Application

The 90 Degree Drop Node Assembly provides a 90 degree pathway and fiber optical connection from a distribution node to the optical drop cable in a Cable TV network. It is ideal for space limited environments such as pedestals and below grade fiber node installations.

### Description

Clearfield® ensures the quality of its 90 Degree Drop Node Assemblies by utilizing factory-terminated connectors, a fully water-blocked entry connector, loose tube, gel-filled cable (on most assemblies) and a GR-326 complaint 900 µm fiber termination process. This provides exceptional performance and stability over a full range of outdoor temperatures and environmental conditions. The end-user gains complete control over drop access and reconfiguration.



### Features and Benefits

#### Integrity

- Terminations are designed and tested to Telcordia GR-326
- 90 Degree Drop Node Assemblies make ease of installation into Optical Distribution Node (ODN)
- Supports industry standard singlemode fiber

#### Protection

- Rugged cable design protects against harsh outdoor environments
- Fibers up-jacketed using materials which can endure temperatures from -40°C to 200°C
- Cables using loose tube gel-filled OSP cable are sealed to eliminate water penetration
- Feed Through Fitting (FTF) strain relief guarantees that movement does not occur at the transition into the ODN
- Strain relief matches cable load rating

#### Access

- Industry standard terminations include SC or LC (ask a Clearfield representative for other available connectors)
- Provides maximum cable management inside ODN using 900 µm or 2 mm up-jacket
- The 90 degree water-tight fitting allows for a better fit in close quarters

#### Investment

- 90 Degree Drop Node Assemblies offer a rugged solution for deploying fiber in any outdoor optical network
- Environmentally stable, low-insertion loss, minimal back reflection
- All assemblies are 100% tested

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### Technical Specifications

90 Degree Drop Node Assemblies	
Core Size and Type	Singlemode ITU-T G.652 D
Fiber Count	6-fiber, 8-fiber, 12-fiber
Jacket OD	900 μm up-jacketed
Cable Types	Outdoor (Riser), Outdoor Armored (Non-Rated)
Connector Types	SC/APC, LC/UPC
Operating Temperature	-40°C to 85°C (-40°F to 185°F)

### 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	65.00 dB
SC	Ceramic	UPC	0.15 dB	0.30 dB	65.00 dB
FC	Ceramic	UPC	0.15 dB	0.30 dB	65.00 dB
LC	Ceramic	UPC	0.15 dB	0.30 dB	65.00 dB
SC	Ceramic	APC	0.15 dB	0.30 dB	65.00 dB
FC	Ceramic	APC	0.15 dB	0.30 dB	65.00 dB
LC	Ceramic	APC	0.15 dB	0.30 dB	65.00 dB

### Configured Part Numbers

N 1 - 2 - 3 4 5 6 7 8 XXXM or XXXF

**1** Select Cable Construction

B = OSP, riser rated  
M = OSP, armored, (non-rated) gel filled

**4** Select Breakout # 1

B = 1 meter  
C = 0.5 meter  
D = 90 degree 1 meter  
E = 90 degree 0.5 meter  
F = 90 degree 47 inch

**7** Select Breakout # 2

B = 1 meter  
C = 0.5 meter  
D = 90 degree 1 meter  
E = 90 degree 0.5 meter  
F = 90 degree 47 inch  
Z = Pigtail

**2** Select Fiber Count

002 = 2 fiber      006 = 6 fiber  
004 = 4 fiber      008 = 8 fiber

**5** Select Upjacketing # 1

A = 900 μm  
B = 2 mm

**8** Select Upjacketing # 2

A = 900 μm  
B = 2 mm  
Z = Pigtail

**3** Select Connector # 1

A = SC/UPC      J = FC/UPC  
C = SC/APC      K = FC/APC  
E = LC/UPC      M = ST/UPC  
G = LC/APC

**6** Select Connector # 2

A = SC/UPC      J = FC/UPC  
C = SC/APC      K = FC/APC  
E = LC/UPC      M = ST/UPC  
G = LC/APC      Z = Pigtail

XXXXM or XXXXF

XXXXM = Length in meters  
XXXXF = Length in feet