

Features and Benefits

Scalable terminal solution

Preconnectorized solution enables rapid connection to future equipment adds

Environmentally hardened, low-profile design Minimum wind load and weight; easy mounting, minimal structural impact

Field-proven, standards-tested, hardened 2-fiber and 4-fiber optical connectors

Lower installation cost, maximum reliability, outside plant durability

Available with an integrated cable stub or non-stubbed for connection of an input cable assembly Simplifies installation and leasing costs

Standards

Design and Test Criteria

Designed and third-party tested to requirements of Telcordia GR-771-CORE, Issue 1 The OptiSheath® MF2 or MF4 MultiPort Terminal Solution is ideal for use in fiber-to-the-antenna (FTTA) applications. This innovative solution includes the OptiSheath MF2 or MF4 MultiPort Terminal and remote radio cable assemblies (RRCAs). These cable assemblies, featuring OptiTip® Multifiber Connector technology, create the optical link between the remote radio unit (RRU) and a to-wer-top consolidation terminal, such as the MF2 or MF4 terminal.

OptiSheath MF2 or MF4 MultiPort Terminals are available with two, three, four, six, eight or 12 OptiTip Multifiber Connector ports, each with two or four fibers (thus making the terminal an MF2 with two fibers per port or an MF4 with four fibers per port). The OptiTip Connector features the MT connector ferrule in an environmentally hardened connector body.

The terminals are available with either an integrated cable stub or without a stub (non-stubbed) for connection of an input cable assembly. The integrated cable stub is available in a range of cable lengths in both flat and round cable designs. The stub can be ordered as a bare end for splicing or preterminated for plug-in connections. Termination options include the OptiTip Multifiber Connector, SC or LC connectors. Non-stubbed OptiSheath MF2 and MF4 MultiPort Terminals are used with an OptiTip Vertical Cable Assembly as an input from the base station. Multifiber connector ports support a variety of network designs, and spare ports provide a fast track for growth. The terminal's versatility simplifies inventory and installation techniques, allowing for quick,







easy and reliable deployments.

Where a tower-top consolidation terminal is used, the RRCA creates a short link to each remote radio that can be easily placed and connected. The assemblies

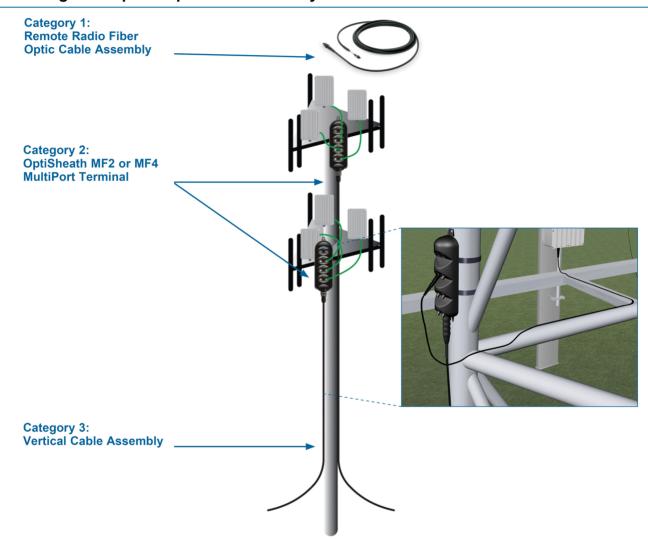
are made with lightweight, low-profile cables and offer a range of single-fiber and multifiber connector options. Preconnectorized solutions are especially beneficial in the tower-top environment for their high quality and rapid installation without the use of highly specialized tools.

Specifications

Optical Characteristics						
	Insertion Loss, Typical	Insertion Loss, Maximum	Reflectance	Fiber Type		
SC	0.35 dB	0.50 dB		Multimode		
SC UPC	0.15 dB	0.50 dB	≤ -59 dB	Single-mode		
LC	0.35 dB	0.50 dB		Multimode		
LC UPC	0.15 dB	0.50 dB	≤ -58 dB	Single-mode		
OptiTip Multifiber Connector	0.30 dB	0.75 dB		Multimode		
OptiTip Multifiber Connector	0.30 dB	0.75 dB	≤ -55 dB	Single-mode		



Building a Complete Optical Connectivity Tower Solution



Remote Radio FO Cable Assembly can be combined with the OptiSheath MF2 or MF4 MultiPort Terminal to create a <u>Preconnectorized Solution with easy tower-top management</u> | Drawing MM189A

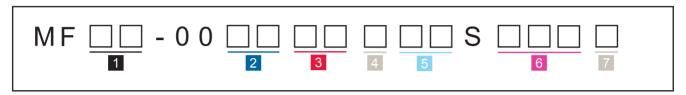
To construct a complete optical connection from tower base electronics to the remote radio unit at the top of the tower, choose one option from the three categories:

- 1. Remote Radio Fiber Optic Cable Assembly
- 2. OptiSheath MF2 or MF4 MultiPort Terminal
- 3. Vertical Cable Assembly to Connect OptiSheath MultiPort Terminal (Optional: these assemblies connect non-stubbed terminals to the tower base)



Category 1: Stubbed with Raw-Ended Cable ("Pigtailed")

Ordering Information



1 Select number of fibers per connector.

02 = 2 fibers

04 = 4 fibers

2 Select connector type 2 (terminal side of cable).

77 = Single-mode OptiTip pinned connector ports

67 = Multimode OptiTip pinned connector ports

3 Select total fiber count.

04 = 4 fibers (two ports for MF02, one port for MF04)

06 = 6 fibers (three ports for MF02, N/A for MF04)

08 = 8 fibers (four ports for MF02, two ports for MF04)

12 = 12 fibers (six ports for MF02, three ports for MF04)

16 = 16 fibers (eight ports for MF02, four ports for MF04)

24 = 24 fibers (12 ports for MF02, six ports for MF04)

36 = 36 fibers (N/A for MF02, nine ports for MF04)

48 = 48 fibers (N/A for MF02, 12 ports for MF04)

Select fiber type.

E = Single-mode (OS2)

 $T = 50 \mu m multimode (OM3)$

 $B = 50 \mu m \text{ multimode (OM2)}$

Select cable type.

B1 = SST toneable (up to 12 fibers only)

B4 = SST dielectric

(up to 12 fibers only)

ML = MiniXtend loose tube SL = Stranded loose tube

6 Select cable length.

See Notes 1 and 2.

Select unit of measure.

M = Meters

F = Feet

Table A: Alpha **Codes for lengths**

≥ 1000 ft

A00 = 1000

B00 = 1100C00 = 1200

D00 = 1300

E00 = 1400

F00 = 1500G00 = 1600

H00 = 1700

J00 = 1800

K00 = 1900

L00 = 2000

1) Standard cable length is 10 ft or 3 m. Additional lengths may be ordered in increments of 25 ft or 10 m. For lengths ≥ 1000 ft (see Table A). Maximum length is 2000 ft or 610 m.

2) Shipping reel provided on lengths greater than 350 ft or 106 m.



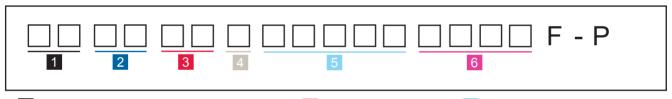
OptiSheath MF2 or MF4 MultiPort Terminal with Bare-End Stub | Drawing ZA-3740



Category 2: Vertical Cable Assembly



Ordering Information



- 1 Select connector type one.
 - M1 = OptiTip MT Connector (non-pinned), single-mode
 - M3 = OptiTip MT Connector (non-pinned), multimode
- 2 Select connector type two.
 - 02 = LC UPC single-mode
 - 58 = SC UPC single-mode
 - 61 = ST Compatible Connector, single-mode
 - 90 = MTP Compatible Connector, single-mode
 - 03 = LC multimode
 - 39 = SC multimode
 - 50 = ST Compatible Connector, multimode
 - 69 = MTP Compatible Connector, multimode

- 3 Select fiber count.
 - 04 = 4 fibers
 - 06 = 6 fibers
 - 08 = 8 fibers
 - 12 = 12 fibers
- 4 Select fiber type.
 - E = Single-mode (OS2)
 - T = 50 μm multimode (OM3)

- 5 Select cable type.
 - B4D1E = SST-Drop
 - Dielectric Cable
 - BZD1X = FREEDM LSZH Cable
- 6 Select cable length.

 Overall maximum length in ft is 2500

 0001-2500

 See Notes 1 and 2.

¹⁾ Choose overall length in ft (maximum 2500 ft); for example, 050 = 50 ft, 100 = 100 ft, 900 = 900 ft. For lengths from 1000 to 2500 feet refer to length code table on page 6.

²⁾ Length tolerance is > 50 ft (-0 to +52 in). Lengths must be in 10 ft increments only.

³⁾ Single-fiber connectors are terminated on 24-in long, 2.0 mm jacketed furcation legs. The MTP Connector is terminated on a 24-in long, 2.9 round furcation leg.



Accessories

Part Number	Product Description	Units per Delivery	
CLEANER-PORT-2.5	Single-fiber Port Cleaner for all 2.5 mm ferruled connectors such as FC, SC and ST® Compatible Connectors; effective for PC, UPC and APC polishes	1/1	
CLEANER-PORT-LC	Single-fiber Port Cleaner for LC, keyed LC, and MU connector end faces for both UPC and APC polishes	1/1	
CLEANER-UNIV-CASS	Universal Connector Cleaning Cassette, offers more than 500 cleanings	1/1	winest fermed through the control of
2104478-01	Fiber Optic Cleaning Tool, OptiTip® connector	1/1	



Related Products

OptiSheath MF2 or MF4 MultiPort Terminal Standard Recommended Procedure (SRP)	206-422
Wireless Consolidation Terminal (WCT)	EVO-1005-EN
Cell Site Drop Cable Assembly	EVO-1018-EN
OptiTip Connector Assemblies for Wireless Applications	EVO-1019-EN
OptiTip Module Rack- and Wall-Mount Solution	EVO-1090-EN
Closet Connector Housing (CCH)	LAN-1129-EN

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA 800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2016 Corning Optical Communications. All rights reserved.

