OptiTip® Assembly

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Features and Benefits

OptiTip® MT preterminated cabling solution
Up to 50 percent faster per system deployment

Factory-tested
Quick, reliable installation

Flexibility for various network designs
Indoor and outdoor application

OptiTip MT Connector
Compatible with FlexNAP™ System, MDU terminals, FDT stubbed terminals

Robust design keeps connector intact during installation
Integral pulling eye/connector cap designed for 100 lb maximum pulling tension

Standards

Design and Test Criteria	Telcordia GR-3152 RUS

The OptiTip® assembly is designed for use in outside plant fiber access networks with FlexNAP and OptiSheath® MDU and Fiber Distribution terminals. This innovative cable assembly solution provides enhanced design flexibility, increased deployment speed and reduced installation cost.

The OptiTip® connector is the key enabler for quick connect of up to 12 fibers at a time. The connector is based on the field proven MTP® connector technology encapsulated in a hardened package suitable for use in any environment. A male (pinned) version and a female (non pinned) version are easily joined to make a watertight terminal or in-line connection. Factory installation and testing ensures reliable, low optical loss on all fibers.

OptiTip assemblies are available with SST-Drop™ Outdoor Cable or FREEDM® Flat Drop Indoor/Outdoor LSZH cable which allows for easy migration of indoor and outdoor applications. The OptiTip Asembly is available with either pinned or non-pinned OptiTip MT Connectors to match your network needs.

OptiTip Interconnect Harness Assembly
| Photo CCA225

OptiTip MT Connector
| Photo LAN1000

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Specifications

OptiTip® MT Connectors

Operation	-40 °C to 70 °C (-40° to +158°F)
Length	3.47-in female, tip to end of boot (4.07-in with dust cap installed) 3.29-in male, tip to end of boot (4.23-in with dust cap installed) 3.29-in male, tip to end of boot (4.23-in with dust cap installed)
Maximum Outer Diameter	0.7 in minimum recommended duct size is 1.25-in
Mateability	Pinned alignment, male-to-female connector or female connector to male adapter
Qualification	EIA/TIA 568-B.3,GR-3152, IP 69K and IP 68
Reflectance	Single-mode OS2: ≤ -65 dB
Tensile Strength	100 lb when factory installed on SST-Drop™ or FREEDM® Flat-Drop Cable
Insertion Loss, Maximum	0.65 dB maximum per fiber
Insertion Loss	0.35 dB typical

* Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

LC, SC and ST® Compatible Connectors

Operation	-40 °C to 70 °C (-40° to +158°F)
Intermateability	TIA/EIA-568-B.3, FOCIS - TIA/EIA-604-10 (LC), TIA/EIA-604-3 (SC), TIA/EIA-604-2 (ST Compatible)
Qualification	EIA/TIA 568-B.3
Reflectance	Single-mode OS2: ≤ -55 dB
Tensile Strength	0.5 dB maximum per fiber, 0.2 dB typical
Insertion Loss, Maximum	≤ 0.2 dB dB change, 15 lb FOTP-6

SST-Drop™ Outdoor Cable

Installation	-22 °F to 158 °F
Operation	-40 °F to 158 °F (-40° to +70°C)
Qualification	GR-20, EIA/TIA 568-B.3, RDUP listed
Weight	20 lb,1,000 ft (30 kg/km)
Outside Diameter	0.32 in
Tensile Strength	300 lb (1350 N)
Compressive Loading	125 lb/in (220 N/cm)

* Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

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OptiTip® Assembly

SST-Drop™ Outdoor Cable

Insertion Loss, Maximum	0.65 dB maximum per fiber
Insertion Loss	0.35 dB typical

* Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

FREEDM® LSZH™ Flat-Drop Indoor/Outdoor Cable

Installation	-22 °F to 158 °F
Operation	-40 °F to 158 °F (-40° to +70°C)
Qualification	GR-20, EIA/TIA 568-B.3, RDUP listed
Weight	20 lb,1,000 ft (30 kg/km)
Outside Diameter	0.32 in
Tensile Strength	300 lb (1350 N)
Compressive Loading	125 lb/in (220 N/cm)
Insertion Loss, Maximum	0.65 dB maximum per fiber
Insertion Loss	0.35 dB typical

* Full specifications for environmental hardiness are available upon request: Gen. Spec doc. PGS115(108)

OptiTip® Direct Trunks

The OptiTip® Direct Trunk is an outdoor or indoor/outdoor cable factory terminated with a female OptiTip MT Connector. Each connector is protected with a sealed dust cap that has an integral pulling eye.

OptiTip Direct Trunk
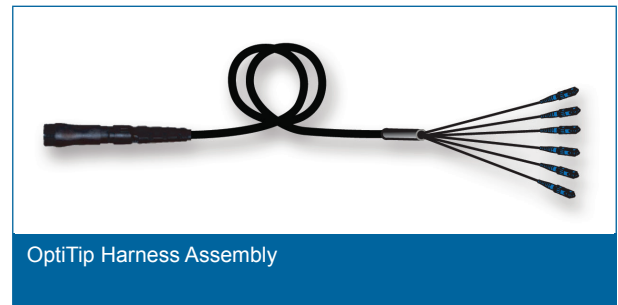
OptiTip® Extender Trunks

The OptiTip® Extender Trunk is an outdoor or indoor/outdoor cable factory terminated with a female OptiTip MT Connector on one end and a male OptiTip Connector on the other end. Each connector is protected with a sealed dust cap. The female dust cap has an integral pulling eye.

OptiTip Extender Trunk

OptiTip® Assembly

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OptiTip® Harness Assembly

The OptiTip® Harness Assembly is an outdoor or indoor/outdoor cable factory terminated with a male OptiTip MT Connector on one end and a furcation and breakout to LC, SC or ST® Compatible single-fiber connectors, or an MTP® Multifiber Connector, on the other end. 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 mm round furcation leg.

OptiTip Harness Assembly

Ordering Information

M	1	M	1	0	6	E	B	4	D	1	E	X	X	X	F	-	P

1 — **2** — **3** — **4** — **5** — **6** — **7** — **8**

1 Select connector type 1.

00 = Stub end
M1 = OptiTip®, non-pinned, single-mode
M2 = OptiTip, pinned, single-mode

2 Select connector type 2.

M1 = OptiTip, non-pinned, single-mode
M2 = OptiTip, pinned, single-mode
02 = LC UPC single-mode
44 = SC APC single-mode
58 = SC UPC single-mode
90 = MTP single-mode

3 Select fiber count.

02 = 2 fibers
04 = 4 fibers
06 = 6 fibers
08 = 8 fibers
12 = 12 fibers

4 Select fiber type.

E = Single-mode

5 Select cable type.

B4D1E = SST-Drop Dielectric Cable
B1D1E = SST-Drop Toneable Cable (Single-mode only)
BZD1X = FREEDM LSZH Flat Drop Cable

6 Select length. See below

050 = 50 ft
100 = 100 ft
A00 = 1000 ft
See Notes 1 and 2.

7 Select unit of measure.

F = Feet
M = Meters

8 Defines packaging.

P = Individual packaging

1) *Minimum length is 10 ft (3 m). All other lengths must be ordered in 10 or 25 ft increments or 5 m.*
2) *For lengths greater than 1000 ft/m, contact Customer Care.*
3) M2M2 is not a valid configuration.

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