



OptiTip® MT Connector

About the OptiTip® MT Connector

The OptiTip MT connector is a hardened array connector designed to provide rapid connectivity (for two, four, six, eight, or 12 fibers) in a durable, easy-to-install design. The OptiTip MT connector is a key part of Corning’s preconfigured FTTH distribution system where it provides instant multifiber connectivity between tether cables and multiport terminals with connectorized stubs. It is also used as the drop connector where networks require more than one fiber per customer. Finally it is used throughout Corning’s multi-use platform solution, providing connectivity and flexibility for prestubbed cabinets and terminals.

Features

- OptiTip® MT preterminated cabling solution with up to 50 percent faster per system deployment
- Factory-tested with quick, reliable installation
- Flexibility for indoor and outdoor application
- Compatible with Corning FlexNAP™ System, MDU terminals, and FDT stubbed terminals
- Robust design keeps connector intact during installation, integral pulling eye/connector cap designed for 100 lb maximum pulling tension



OptiTip® is a registered Corning trademark

Installation

The OptiTip® connector design allows connections to be made much more rapidly than with traditional field termination methods, such as splicing or field connectors- up to four times faster per connection. OptiTip connections only involve joining two pre-configured parts with no equipment required. The connector is compact and can fit within a 1.25 in (4 cm) duct or smaller, offering a high-density, rugged solution where space is tight.

Specifications

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

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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

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

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

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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® 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® 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® Ordering Information

<u>12750</u>	<u>OTIPM</u>	<u>2</u>	<u>A</u>	<u>2</u>	<u>18N</u>	<u>XXX</u>	<u>F</u>
Fiber Glass	Connector 1	Fiber Count	Connector 2	Breakout	Connector	Length	U/M
	OTIPM = OptiTip Male OTIPF = OptiTip Female	2 = 2-Fiber 4 = 4-Fiber 6 = 6-Fiber 8 = 8-Fiber 12 = 12-Fiber	A = LC/UPC T = SC/APC O = Pigtail OTIPM = OptiTip Male OTIPF = OptiTip Female	0 = No Breakout 2 = 2mm 9 = 900µm	06N = 6 in. 10N = 10 in. 18N = 18 in. 24N = 24 in. 36N = 36 in.		F = Feet M = Meter

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