

OptiTip® Module Rack- and Wall-Mountable Solution

CORNING

Features and Benefits

Factory-terminated cables

Install with no special tools

Compact, rugged design

Ideal for fiber backhaul applications

Multi-fiber quick connect

Up and running in hours rather than days

Factory tested

Reliable and dependable

Modular

Easy, flexible configuration for many applications including FTTC backhaul, remote or LAN applications

Corning OptiTip® module rack- and wall-mountable solution is a modular set of factory-terminated components that can be easily configured into flexible point-to-point and point-to-multipoint optical links.

The OptiTip connector enables quick connection 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 connectors are used to terminate compact, rugged outdoor and indoor-outdoor rated cables to make multi-fiber direct trunk and extender trunk segments. These trunks or pigtails are connected to the OptiTip Module (OTM) and installed in either wall-mounted or rack-mounted hardware. Additional OTMs can be added to increase capacity from 12-fiber to 24-fiber. OTMs are equipped with 12 SC UPC or SC APC connectors.



The OptiTip Module Rack- and Wall-Mount Solution includes (from top) a Wall-Mount Bracket, Rack-Mount Housing, OTM and OptiTip Pigtail Stub | Photo FOH300

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Specifications

MT connectors	
Operation	-40 °F to 158 °F (-40 °C to 70 °C)
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) 6.72 in female-male mated pair (end of boot to end of boot)
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	≤ -65 dB Single-mode (OS2)
Tensile Strength	100 lb when factory installed on SST-Drop or FREEDM Flat-Drop Cable
Durability	< 0.3 dB change, FOTP-21
Insertion Loss, Typical	0.35 dB
Insertion Loss, Maximum	0.65 dB per fiber

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

SC Connectors	
Operation	-40 °F to 158 °F (-40 °C to 70 °C)
Intermateability	TIA/EIA-568-B.3, FOCIS - TIA/EIA-604-3 (SC)
Qualification	EIA/TIA 568-B.3
Reflectance	≤ -55 dB Single-mode (OS2)
Tensile Strength	≤ 0.2 dB change, 15 lb, FOTP-6
Durability	< 0.2 dB change, 500 rematings, FOTP-21
Insertion Loss, Maximum	0.5 dB per fiber
Insertion Loss, Typical	0.2 dB

SST-Drop™ Cable	
Installation	-22 °F to 158 °F (-30 °C to 70 °C)
Operation	-40 °F to 158 °F (-40 °C to 70 °C)
Qualification	GR-20, EIA/TIA 568-B.3, RDUP listed
Nominal Outer Diameter	0.32 in x 0.17 in
Min. Bend Radius	3.15 in (slack storage loop minimum diameter 6.30 in)
Weight	20 lb/1000 ft (30 kg/km)
Max. Tensile Strength for Installation	300 lbf (1350 N)
Compressive Strength (Crush)	125 lbf/in (220 N/cm)

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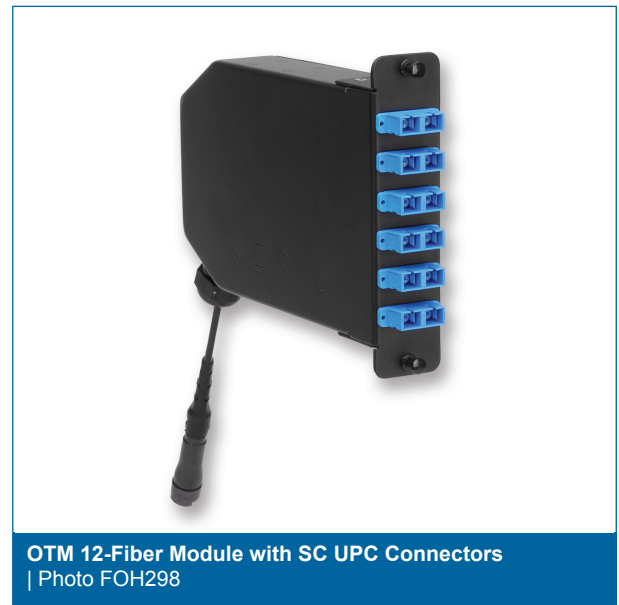
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SST-Drop™ Cable

Sheath Color	Black
Fiber Attenuation	Single-mode OS2: 0.4/0.3 dB/km

OTM

The OTM is a compact module for the termination and breakout of one 12-fiber OptiTip® trunk or pigtail. A stub is located at the rear of the housing terminated with a male OptiTip MT Connector. An internal fiber harness connects to SC UPC or SC APC adapters on the opposing side. The OTM fits into both the rack and wall-mountable housings.



OTM products

Part Number	Description	Packaging Dimensions (W x D x H)	Shipping Weight
OTM-12R-123C	Single-mode (OS2), 12 F, OptiTip to SC UPC	368 mm x 368 mm x 114 mm (14.5 in x 14.5 in x 4.5 in)	1.0 kg (2.2 lb)
OTM-12R-126C	Single-mode (OS2), 12 F, OptiTip to SC APC	368 mm x 368 mm x 114 mm (14.5 in x 14.5 in x 4.5 in)	1.0 kg (2.2 lb)

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Rack-Mount Housings

The OptiTip® Module Rack-Mount Housing is a 1U rack-mountable housing for the storage of one or two 12-fiber OptiTip modules. The housing includes reversible mounting brackets for installation in 19-in and 23-in frames.



Rack-Mount Housings products

Part Number	Description	Packaging Dimensions (W x D x H)	Shipping Weight
OTM-01U	Empty 1U Rack-Mount Housing	511.17 mm x 406.4 mm x 161.92 mm (20.125 in x 16 in x 6.375 in)	2.9 kg (6.4 lb)
OTM-01U-12R-123C	1U Rack-Mountable Housing with one (1) OTM-12R-123C SC UPC Module	574.67 mm x 469.9 mm x 317.5 mm (22.625 in x 18.5 in x 12.5 in)	2.9 kg (6.4 lb)

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Wall-Mountable Bracket

The OptiTip Module Wall-Mount bracket is designed to hold one or two OptiTip Modules. The housing is available in low-profile or front-projection designs.



OptiTip Module Wall-Mount Bracket
| Photo FOH297

Wall-Mountable Bracket products

Part Number	Description	Packaging Dimensions (W x D x H)	Shipping Weight
OTM-02P-FP	Front-Projection Wall-Mountable Bracket	190.5 mm x 374.65 mm x 238.125 mm (7.5 in x 14.75 in x 9.375 in)	1 kg (2.2 lb)
OTM-02P-LP	Low-Profile Wall-Mountable Bracket	109.5375 mm x 211.1375 mm x 79.375 mm (4.3125 in x 8.3125 in x 3.125 in)	0.77 kg (1.7 lb)
OTM-02P-FP-12R-123C	Front-Projection Wall-Mountable Bracket with one (1) OTM-123C SC UPC Module	330.2 mm x 508 mm x 508 mm (13 in x 20 in x 20 in)	2.45 kg (5.4 lb)
OTM-02P-FP-12R-126C	Front-Projection Wall-Mountable Bracket with one (1) OTM-126C SC APC Module	330.2 mm x 508 mm x 508 mm (13 in x 20 in x 20 in)	2.45 kg (5.4 lb)



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