Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3)

MTP® Connector to MTP Connector, 12 F, with 33/33 inch legs, pulling grip one side, 100 ft

CORNING

Pretium EDGE® Solutions trunk cables utilize the MTP® Connector, a 12-fiber push/pull optical connector with a footprint similar to the SC simplex connector. These high-density connectors are used to significantly accelerate the network installation process, minimize errors and reduce space. Pretium EDGE Solutions trunks utilizing MTP Connectors support 12 to 144 fibers.

Pretium EDGE® Solutions trunk cables utilize a high-density cable solution, which results in up to 65 percent space savings. Five to six times the fiber tray capacity can be achieved over traditional bulkier cabling solutions while minimizing cable tray weight and cooling air impediment. The trunk cables contain Corning® ClearCurve® optical fiber, which enables a bend radius of five times the cable outside diameter and allows for smaller slack storage coils or loops. The cables feature a 2.0 mm round furcation leg which provides easy routing and improved slack storage.

Pretium EDGE® Solutions trunks feature a furcation plug design that offers stress-free strain-relief of the cable, and a small-profile furcation plug allows installation of all fiber counts inside a 1U housing. All trunks are shipped with appropriate strain-relief brackets for integrating into both Pretium EDGE Solutions housings and Plug & Play™ Systems housings. The trunk furcation features a transition boot for smooth transition out of rack/floor hardware. The flexibility of the grip allows easy installation around the corners of tray and ladder racks, while its robust design allows the trunk to be pulled through conduit using up to 100 lb of pulling tension while providing complete protection for the connectors. All trunks are packaged on a plastic corrugated reel for easy installation. This reel can be easily broken down for cost-effective disposal. Pretium EDGE Solutions trunks have been tested and meet the skew criteria to ensure the system is 100G Ready.

Part Number: G757512TPNDDU100F

Features and Benefits

High-density trunk cables
Allow tighter trunk cable bends for slack storage and routing

Low insertion loss performance
Allows for more connections in a link when deploying a TIA-942-compliant system

Universal wired components
Enable moves, adds and changes without polarity concerns; provide a simple migration path between 2-fiber and parallel optic applications

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Features and Benefits

Factory-terminated solutions
Provide consistent quality, ensure system performance and reduce installation time

Standards

Approval and Listings	NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6

Specifications

General Specifications	
Application	Data Center LAN/SAN
Cable Type	Indoor; ANSI/ICEA S-83-596
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)
Cable Assembly Type	Pretium EDGE® Trunk

Temperature Range	
Operation	-10 °C to 60 °C (14 °F to 140 °F)

Design - Connector A	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A	
Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

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Design - Connector B	
Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B	
Reflectance, Typical	< -20 dB
Insertion Loss, Max.	0.35 dB

Cable Design	
Fiber Count	12
Outer Jacket Color	Aqua
Polarity	Universal; TIA-568 Type-B

Mechanical Characteristics Cable	
Nominal Outer Diameter	5.5 mm (± 0.3 mm)
Min. Bend Radius Installation	82.5 mm (3.25 in)
Min. Bend Radius Operation	27.5 mm (1.08 in)
Max. Tensile Strength for Installation	440 N
Weight	32 kg/km (71 lb/1000 ft)

Furcation - Connector A	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

Furcation - Connector B	
Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Aqua
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 1; 14.7 mm x 14.7 mm x 108.6 mm

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Pulling Grip - Connector A	
Pulling Grip - Connector A	Yes
Outer Diameter	41 mm (1.6 in)
Min. Duct Size Diameter	64 mm (2.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B	
Pulling Grip - Connector B	No

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/EG

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Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	G50/125 Pretium 300 ULTRA-BEND 7.5
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM3
Fiber Compliance	IEC 60793-2-10 for A1a class 50/125 multimode fibers; TIA/EIA 492AAAC-A (OM3); ITU-T Recommendation G.651; ISO/IEC 11801 Grade OM3
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m / -
Serial 10 Gigabit Ethernet	300 m / -
Standards in Compliance	TIA/EIA 492AAAC-A, Tested with minEMBc method to TIA/EIA 455-220, IEC 60793-2-10 Type A1a.2 Ed.2.0 and IEC 60793-1-49 Ed.2.0, ITU-T G651, ISO/IEC 11801 Cat. OM3
Fiber Code	T
Induced Attenuation @ 7.5 mm Radius	< 0.2 dB / -

Notes:
1) *50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.*
2) Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.
3) Improved attenuation and bandwidth options available.
4) Bend-insensitive single-mode fibers available on request.
5) *Contact a Corning Cable Systems Customer Care Representative for additional information.*

Ordering Information

Part Number	G757512TPNDDU100F
Product Description	Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3), MTP® Connector to MTP Connector, 12 F, with 33/33 inch legs, pulling grip one side, 100 ft
Weight	2 kg (4.4 lb)
Length	30 m (-0 m/+0.61 m) (100 ft (-0 ft/+2 ft))

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Shipping Information

Units per Delivery	1/1
Reel A	Diameter 23.5 in Width 5 in

RoHS COMPLIANT

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