

Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2)

MTP® Connector to MTP Connector, 144 F, with 33/33 inch legs, pulling grip one side, 120 ft

The Corning logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font.

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.

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	Bend-Improved SM (OS2)
Cable Assembly Type	Pretium EDGE® Trunk

Temperature Range

Operation	-10 °C to 60 °C (14 °F to 140 °F)
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Design - Connector A

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector A

Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

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Design - Connector B

Connector Type	MTP® (non-pinned)
Ferrule	Composite

Optical Specifications - Connector B

Reflectance, Typical	< -55 dB
Insertion Loss, Max.	0.75 dB

Cable Design

Fiber Count	144
Outer Jacket Color	Yellow
Polarity	Universal; TIA-568 Type-B

Mechanical Characteristics Cable

Nominal Outer Diameter	12.5 mm (± 0.3 mm)
Min. Bend Radius Installation	187.5 mm (7.38 in)
Min. Bend Radius Operation	62.5 mm (2.46 in)
Max. Tensile Strength for Installation	660 N
Weight	120 kg/km (265 lb/1000 ft)

Furcation - Connector A

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Yellow
Leg Diameter	2.0 mm
Furcation Type - A	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

Furcation - Connector B

Leg Length	838 mm (-0 mm/+76 mm) (33 in (-0 in/+3 in))
Leg Color	Yellow
Leg Diameter	2.0 mm
Furcation Type - B	Pretium EDGE® Size 2; 20 mm x 20 mm x 108.6 mm

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Pulling Grip - Connector A

Pulling Grip - Connector A	Yes
Outer Diameter	56 mm (2.2 in)
Min. Duct Size Diameter	89 mm (3.5 in)
Tensile Strength	440 N (100 lb)

Pulling Grip - Connector B

Pulling Grip - Connector B	No
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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Single-Mode Ultra-Bendable Fiber
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Code	G
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m
Induced Attenuation @ 10 mm Radius	0.5 dB (1 turn; 10 mm radius; 1550 nm)

* ITU-T G.652 D compliant.

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

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Ordering Information

Part Number	G9090E4GPNDU120F
Product Description	Pretium EDGE® Solutions Trunk Cable, Bend-improved Single-mode (OS2), MTP® Connector to MTP Connector, 144 F, with 33/33 inch legs, pulling grip one side, 120 ft
Length	120 ft (-0 ft/+2 ft) (36.58 m (-0 m/+0.61 m))

Shipping Information

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



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