

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

MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 50 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: G757524TPNDDU050F

## 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        | 24                        |
| Outer Jacket Color | Aqua                      |
| Polarity           | Universal; TIA-568 Type-B |

## Mechanical Characteristics Cable

|  |                           |
|--|---------------------------|
| Nominal Outer Diameter                 | 7.7 mm ( $\pm$ 0.3 mm)    |
| Min. Bend Radius Installation          | 115.5 mm (4.55 in)        |
| Min. Bend Radius Operation             | 38.5 mm (1.52 in)         |
| Max. Tensile Strength for Installation | 660 N                     |
| Weight                                 | 50 kg/km (110 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         | G757524TPNDDU050F   |
| Product Description | Pretium EDGE® Solutions Trunk Cable, 50 µm multimode (OM3), MTP® Connector to MTP Connector, 24 F, with 33/33 inch legs, pulling grip one side, 50 ft |
| Length              | 50 ft (-0 ft/+2 ft) (15.24 m (-0 m/+0.61 m))  |

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## Shipping Information

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



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