

# Plug & Play™ Universal Trunk Cable, OM4, MTP® Connector to MTP Connector, 72 fibres

600/600 mm leg lengths, pulling grip one side, 20 m



Plug & Play™ universal systems trunk connections are available in fibre counts of 12 to 144 fibres. Using the MTP® connector, a 12-fibre push/pull optical connector with a footprint similar to the SC simplex connector, high density and rapid deployment with space savings and minimal error can be realized. The MTP® connector, used in conjunction with high-density ribbon cable, provides a space saving of up to 45 percent and three times the fibre-tray capacity over traditional bulkier cabling solutions. Cable tray weight and cooling air impediment are minimized. Corning's enhanced pulling grip and furcation plug make deployment and installation quicker and easier than ever before. The furcation plug mechanically joins the trunk cable and furcation legs, providing strain-relief and featuring a design which allows easy integration into Corning hardware. Optional brackets are available for mounting the furcation plug into equipment racks and cabinets.

## Features and Benefits

For 12- and 24-fibre trunks, Data Center Cable, a round, FRNC distribution cable with a small outside diameter is used, allowing more room for trunk cables and easier routing in patch panels without preferential bend concerns

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MTP® connector meets requirements of ANSI HIPPI-6400 and IEC 61754-7 and TIA/EIA-604 (FOCIS)

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MTP® connector-based trunks systems plug into break-out Plug & Play™ Universal Systems modules or harnesses

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Metal-free, therefore no grounding concerns

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Pulling grips provide complete protection for connectors and allow trunks pull through conduits up to 450 N

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Delivered with 2 trunk holders

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Test report for every single trunk

## Standards

|                         |  |
|-------------------------|--|
| <b>Intermateability</b> | TIA/EIA-604-5 / TIA/EIA-604-5  |
| <b>Flame Resistance</b> | Flame retardant to IEC 60332-1-2 (single cable), Zero Halogen to IEC 60754-1, Non Corrosive to IEC 60754-2 |

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## Specifications

### General Specifications

|                     |                |
|---------------------|----------------|
| Flame rating        | LSZH™/FRNC     |
| Fibre Category      | 50 µm MM (OM4) |
| Cable assembly type | Multi Fibre    |

### Temperature Range

|                           |                 |
|---------------------------|-----------------|
| Operation                 | 0 °C to 60 °C   |
| Installation and assembly | 0 °C to 50 °C   |
| Storage                   | -25 °C to 70 °C |

### Design - Connector A

|                  |                   |
|------------------|-------------------|
| Connector Type   | MTP® (non-pinned) |
| Ferrule Material | Composite         |
| Polish           | PC                |
| Housing material | Composite         |
| Housing Colour   | Turquoise         |
| Boot type        | Individual        |
| Boot colour      | black             |
| Keyed (security) | No                |

### Mechanical Specifications - Connector A

|                                 |                                 |
|---------------------------------|---------------------------------|
| Durability                      | ≤ 0.2 dB 200 rematings, FOTP-21 |
| Tensile strength jacketed cable | 44 N                            |

### Optical Specifications - Connector A

|                      |          |
|----------------------|----------|
| Insertion loss, max. | ≤ 0.5 dB |
|----------------------|----------|

### Design - Connector B

|                  |                   |
|------------------|-------------------|
| Connector Type   | MTP® (non-pinned) |
| Ferrule Material | Composite         |
| Polish           | PC                |

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## Design - Connector B

|                  |            |
|------------------|------------|
| Housing material | Composite  |
| Housing Colour   | Turquoise  |
| Boot type        | Individual |
| Boot colour      | black      |
| Keyed (security) | No         |

## Mechanical Specifications - Connector B

|                                 |                                 |
|---------------------------------|---------------------------------|
| Durability                      | ≤ 0.2 dB 200 rematings, FOTP-21 |
| Tensile strength jacketed cable | 44 N                            |

## Optical Specifications - Connector B

|                      |          |
|----------------------|----------|
| Insertion loss, max. | ≤ 0.5 dB |
|----------------------|----------|

## Cable design

|                               |                   |
|-------------------------------|-------------------|
| Fibre Count                   | 72                |
| Outer jacket colour           | Turquoise         |
| Outer jacket material         | LSZH™/FRNC        |
| Outer diameter                | 9.0 mm (± 0.4 mm) |
| Min. Bend Radius Installation | 180 mm            |
| Min. Bend Radius Operation    | 90 mm             |
| Crush resistance (reversible) | 350 N/10 cm       |
| Tensile strength              | 450 N             |

## Mechanical Characteristics Cable

|        |            |
|--------|------------|
| Weight | 69.0 kg/km |
|--------|------------|

## Furcation - Connector A

|             |            |
|-------------|------------|
| Legs Count  | 6          |
| Leg length  | 600 mm     |
| Fibre Count | 72         |
| Plug Type   | Size 0 PnP |

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## Furcation - Connector A

|                 |                  |
|-----------------|------------------|
| Plug Dimensions | 105 x 16 x 21 mm |
| Leg diameter    | 2.0 mm           |

## Furcation - Connector B

|                 |                  |
|-----------------|------------------|
| Legs Count      | 6                |
| Leg length      | 600 mm           |
| Fibre Count     | 72               |
| Plug Type       | Size 0 PnP       |
| Plug Dimensions | 105 x 16 x 21 mm |
| Leg diameter    | 2.0 mm           |

## Pulling grip - Connector A

|                             |       |
|-----------------------------|-------|
| Pulling grip - Connector A  | Yes   |
| Tensile strength            | 450 N |
| Pulling Grip Outer Diameter | 36 mm |
| Min. duct size diameter     | 61 mm |

## Pulling grip - Connector B

|                            |    |
|----------------------------|----|
| Pulling grip - Connector B | No |
|----------------------------|----|

## Chemical Characteristics

|      |   |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|---|

## Fibre Specifications

### Optical Characteristics (cabled)

|                     |                        |
|---------------------|------------------------|
| Fibre name          | G50/125 ULTRA-BEND 7.5 |
| Fibre core diameter | 50 µm                  |

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

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## Fibre Specifications

| Optical Characteristics (cabled)        |                          |
|---|--------------------------|
| Fibre Category                          | OM4                      |
| Fibre code                              | T                        |
| Wavelengths                             | 850 nm / 1300 nm         |
| Maximum attenuation                     | 2.8 dB/km / 1.0 dB/km    |
| Typical attenuation                     | 2.4 dB/km / 0.8 dB/km    |
| Serial 1 gigabit ethernet               | 1100 m / 600 m           |
| Serial 10 gigabit ethernet              | 550 m / -                |
| Min. overfilled launch (OFL) bandwidth  | 3500 MHz*km / 500 MHz*km |
| Minimum effective modal bandwidth (EMB) | 4700 MHz*km / -          |
| Induced attenuation @ 7.5 mm radius     | < 0.2 dB / -             |

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.  
2) 50 µm multimode fibre macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel  
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## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | A696972QUZAAU020M  |
| Product Description | Plug & Play™ Universal Trunk Cable, OM4, MTP® Connector to MTP Connector, 72 fibres, 600/600 mm leg lengths, pulling grip one side, 20 m |
| Length              | 20 m   |

## Shipping Information

|                    |                                 |
|--------------------|---------------------------------|
| Packing type       | Plastic reel                    |
| Packing contents   | 2x PnP clip size 0, test report |
| Units Per Delivery | 1/1                             |



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