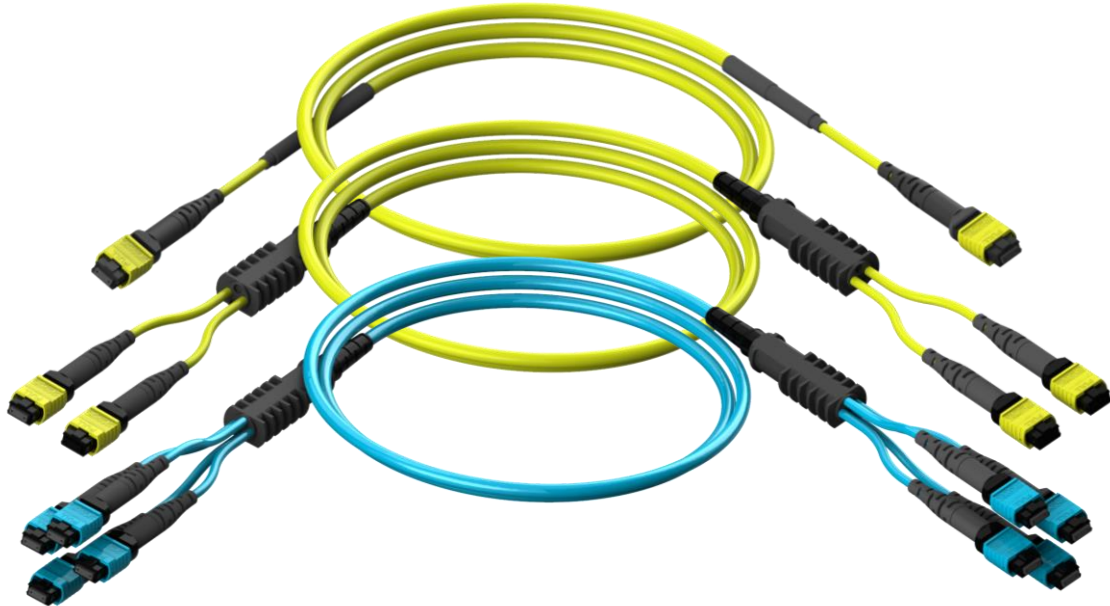




## Xlight F/O UHD MTP/MPO-MTP/MPO Trunk Cables

### *Description*



RiT MTP<sup>®</sup> Trunk Cables are based on US Conec MTP<sup>®</sup> brand MPO product family that brings simplified use to the MPO format by offering optimal field flexibility and enhanced performance.

RiT provides Factory-terminated and tested MTP<sup>®</sup> and MPO Trunk Cables to connect central patching locations to zones or pods. MTP<sup>®</sup> Elite Connectors feature ultra-low loss to support maximum distance and multiple connection points while staying within IEEE low-loss limits. All trunks are custom built in lengths and up to 144 fibers to meet specific application needs.

MTP<sup>®</sup>/MPO Trunk assemblies are offered in most fiber types as standard 8, 12 to 144 core versions using a compact and rugged micro cable structure. The compact cable optimizes cable-way use and improves airflow. MTP<sup>®</sup>/MPO Trunks are built with the highest quality components. MTP<sup>®</sup> low loss Elite ferrules are used as standard to get low insertion loss for demanding high speed networks where power budgets are critical.



## **Xlight F/O UHD MTP/MPO-MTP/MPO Trunk Cables**

### ***Features***

- Elite high-precision MTP® Ferrules and MPO Ferrules for improved performance
- Factory pre-termination, 100% tested.
- Available in Plenum, LSZH or Riser, depending on the specific application.
- All parts comply with UL94-V0

#### Complied Standards:

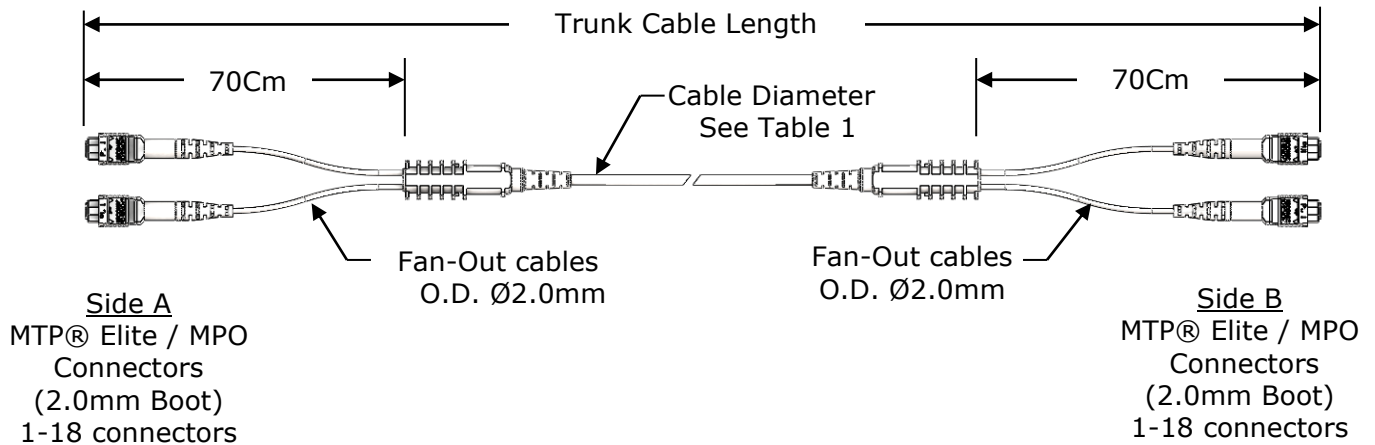
- Comply with IEC 61754-7,
- TIA/EIA 604-5,
- Telcordia GR-1435-CORE Issue 2 standards.
- Fire resistance comply with low smoking (IEC 61304),
- Halogen free (IEC 60754-1),
- Flame retardant (IEC 60332-1),
- ANSI/TIA-568-C.3
- IEEE 802.3ba (40/100GbE Standard)
- ISO/IEC 11801
- RoHS Compliant

#### Applications:

- Internal frame cabling, cabling from MDA to EDA
- Data Centre Infrastructure
- Storage Area Network- fiber Channel
- Designed to support emerging protocols with up to 400G.
- Infrastructure physical layer connection in data center, LAN cabling backbone systems
- Backbone connectivity in building and campus

## Xlight F/O UHD MTP/MPO-MTP/MPO Trunk Cables

### Technical Drawing



Trunk Cable Method A/B/C

| Total Fiber Count   | Trunk Cable O.D. Nominal [mm] |
|---------------------|-------------------------------|
| <b>8/12 Fibers</b>  | Ø 4.5                         |
| <b>16/24 Fibers</b> | Ø 5.5                         |
| <b>32/48 Fibers</b> | Ø 7.7                         |
| <b>64/72 Fibers</b> | Ø 9.5                         |
| <b>96 Fibers</b>    | Ø 10.1                        |
| <b>144 Fibers</b>   | Ø 11.2                        |

Table 1



## Xlight F/O UHD MTP/MPO-MTP/MPO Trunk Cables

### Specifications

|                                                   |                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------|
| Fiber Count                                       | 8, 12, 24, 48, 72, 96, 144                                            |
| Outer Fan-Out Cable Jacket Diameter:              | Ø2.0 mm nom.                                                          |
| Outer Jacket Material Rating:                     | FR-LSZH (Flame Retardant Low Smoke Zero Halogen)                      |
| Jacket color                                      | OM3 & OM4: Aqua, OM5: Lemon-Green, OS2: Yellow                        |
| Strength Elements                                 | Aramid Yarns                                                          |
| Multimode OM3/OM4/OM5 Fibers                      | 50/125µm, Band Insensitive                                            |
| Single Mode OS2 Fibers                            | 9/125µm, ITU-T G657 A2/B2                                             |
| Connector Type                                    | US Conec, MTP <sup>®</sup> / MTP Pro <sup>®</sup> / MPO, MM/SM, Elite |
| Multi-Mode OM3/OM4/OM5 Fibers Attenuation         | < 2.4/0.6 dB/km @850/1300 nm                                          |
| Single Mode OS2 Fibers Attenuation                | < 0.35/0.21 dB/km @1310/1550 nm                                       |
| MTP <sup>®</sup> Connector Insertion Loss (MM/SM) | Typical: ≤ 0.25 dB, Max: ≤ 0.35 dB                                    |
| Multi-Mode Connector Return Loss                  | ≥25 dB max                                                            |
| Single Mode Connector Return Loss                 | ≥55 dB (UPC), ≥65 dB (APC)                                            |
| Multi-Mode OM3 EMB Bandwidth                      | ≥2000 MHz.km @850nm, ≥500 MHz.km @1300nm                              |
| Multi-Mode OM4 EMB Bandwidth                      | ≥4700 MHz.km @850nm                                                   |
| Multi-Mode OM5 EMB Bandwidth                      | ≥4700 MHz.km @850nm, ≥500 MHz.km @1300nm                              |
| Static Bending Radius                             | 30mm                                                                  |
| Dynamic Bending Radius                            | 50mm                                                                  |
| Operating Temperature                             | -20°C to 70°C                                                         |
| Pulling Grip                                      | 450 N Max                                                             |
| Connector Retention                               | 48 N Max                                                              |
| Crush                                             | 10 N/Cm                                                               |
| Connector durability 500 cycles (EIA-455-21A)     | ≤0.20                                                                 |
| Packaging                                         | Polyethylene Bag                                                      |



## Xlight F/O UHD MTP/MPO-MTP/MPO Trunk Cables

### Ordering Information

R FHD T -  -  -  -  -  -  -  -  -

1 2 3 4 5 6 7 8 9

**1** Select Fiber Type

- 2 - SM, G657A2, APC
- 4 - SM, G657B3, APC
- 7 - MM, OM3, BI
- 8 - MM, OM4, BI
- 9 - MM, OM5, BI

**2** Select Jacket Material

- LS - LSZH
- OP - OFNP
- OR - OFNR

**3** Select Fiber Count

- 008 - 8 Fibers
- 012 - 12 Fibers
- 016 - 16 Fibers
- 024 - 24 Fibers
- 032 - 32 Fibers
- 036 - 36 Fibers
- 048 - 48 Fibers
- 064 - 64 Fibers
- 072 - 72 Fibers
- 096 - 96 Fibers
- 144 - 144 Fibers

**4** Select Split Type Side A

- 01 - 1 MTP/MPO Plug, Base-8
- 02 - 2 MTP/MPO Plugs, Base-8
- 03 - 3 MTP/MPO Plugs, Base-8
- 04 - 4 MTP/MPO Plugs, Base-8
- 05 - 6 MTP/MPO Plugs, Base-8
- 06 - 8 MTP/MPO Plugs, Base-8
- 08 - 12 MTP/MPO Plugs, Base-8
- 09 - 18 MTP/MPO Plugs, Base-8
- 20 - 1 MTP/MPO Plug, Base-12
- 21 - 2 MTP/MPO Plugs, Base-12
- 22 - 3 MTP/MPO Plugs, Base-12
- 23 - 4 MTP/MPO Plugs, Base-12
- 24 - 6 MTP/MPO Plugs, Base-12
- 25 - 8 MTP/MPO Plugs, Base-12
- 26 - 12 MTP/MPO Plugs, Base-12

**5** Select Split Type Side B

- 01 - 1 MTP/MPO Plug, Base-8
- 02 - 2 MTP/MPO Plugs, Base-8
- 03 - 3 MTP/MPO Plugs, Base-8
- 04 - 4 MTP/MPO Plugs, Base-8
- 05 - 6 MTP/MPO Plugs, Base-8
- 06 - 8 MTP/MPO Plugs, Base-8
- 08 - 12 MTP/MPO Plugs, Base-8
- 09 - 18 MTP/MPO Plugs, Base-8
- 20 - 1 MTP/MPO Plug, Base-12
- 21 - 2 MTP/MPO Plugs, Base-12
- 22 - 3 MTP/MPO Plugs, Base-12
- 23 - 4 MTP/MPO Plugs, Base-12
- 24 - 6 MTP/MPO Plugs, Base-12
- 25 - 8 MTP/MPO Plugs, Base-12
- 26 - 12 MTP/MPO Plugs, Base-12

**6** Select MTP/MPO Gender

- 1 - Male-Male
- 2 - Female-Female
- 3 - Male-Female
- 4 - Male-Male (Convertible MTP Pro / MPO Plus)
- 5 - Female-Female Convertible MTP Pro / MPO Plus)
- 6 - Male-Female Convertible MTP Pro / MPO Plus)

**7** Select Polarity Method

- A - Method A
- B - Method B
- C - Method C

**8** Select Length in Decimeter

XXXX - Length in Decimeter

**9** Select Optional Features

- 0 - MTP Connector IL  $\leq 0.25$ dB
- 1 - MTP Connector with Pulling Eye
- M2 - MPO Connector IL  $\leq 0.25$ dB
- M3 - MPO Connector IL  $\leq 0.35$ dB
- M4 - MPO Connector IL  $\leq 0.35$ dB with Pulling Eye

Example:

RFHDT-8-LS-024-03-03-2-A-0100-1:

Xlight F/O UHD MTP-MTP Trunk cable, OM4, BI, 24 Fibers (3xMTP8), Female, LSZH, Polarity A, 10M, with pulling eye

RFHDT-8-LS-024-03-03-2-B-0100-M2:

Xlight F/O UHD MPO-MPO Trunk cable, OM4, BI, 24 Fibers (3xMPO8), Female, LSZH, Polarity B, IL  $\leq 0.025$ dB, 10 Meters

Note: Trunk cables with 16/24 Fibers in one connector can be ordered by request