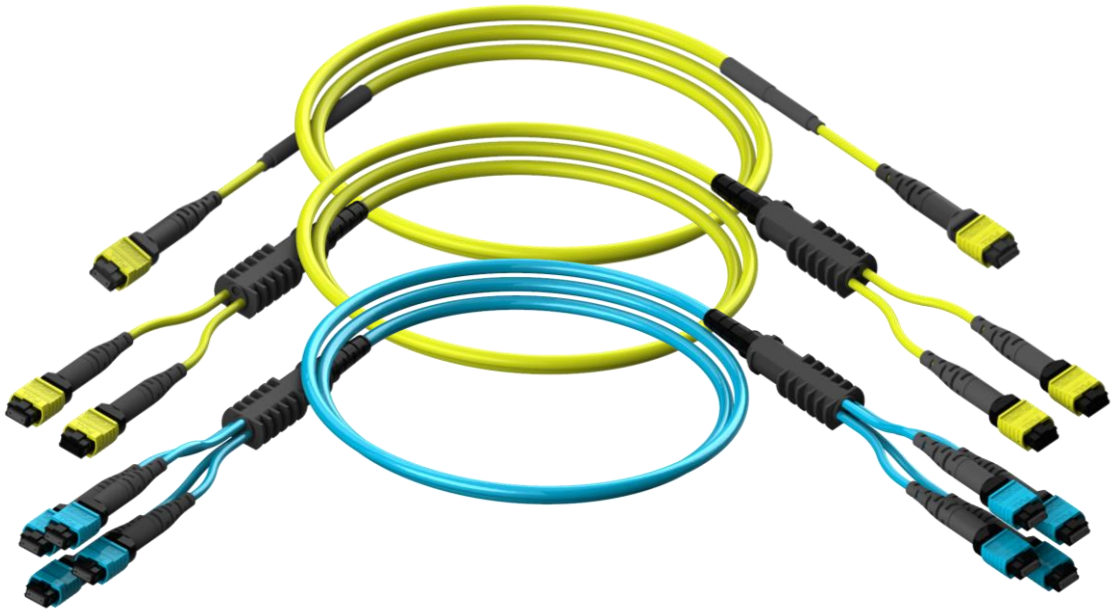
Xlight F/O UHD MTP/MPO-MTP/MPO Trunk Cables

Description



RiT MTP® Trunk Cables are based on US Conec MTP® 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® and MPO Trunk Cables to connect central patching locations to zones or pods. MTP® 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®/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®/MPO Trunks are built with the highest quality components. MTP® low loss Elite ferrules are used as standard to get low insertion loss for demanding high speed networks where power budgets are critical.

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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

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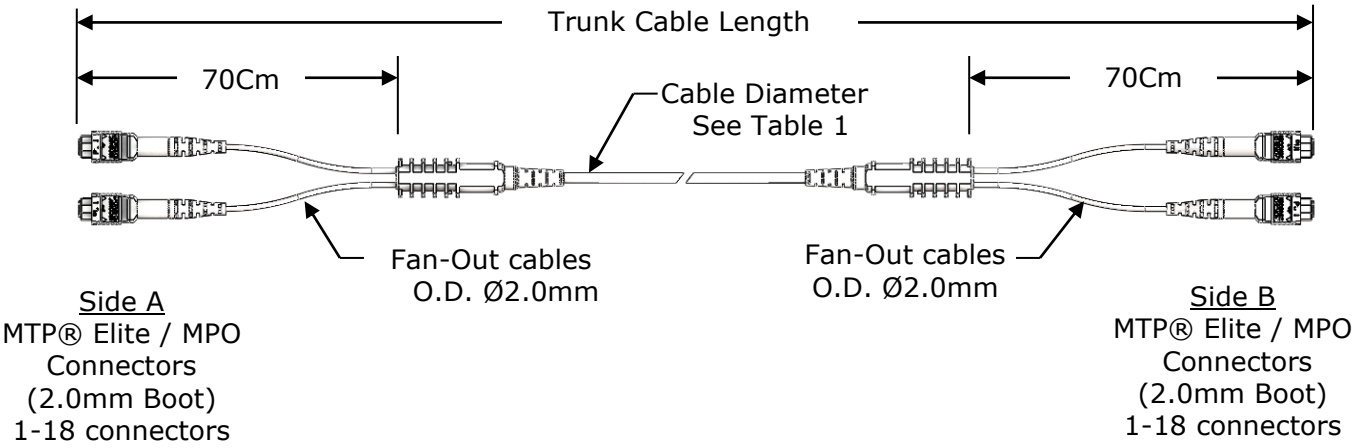
Technical Drawing



Trunk Cable Method A/B/C

Total Fiber Count	Trunk Cable O.D. Nominal [mm]
8/12 Fibers	Ø 4.5
16/24 Fibers	Ø 5.5
32/48 Fibers	Ø 7.7
64/72 Fibers	Ø 9.5
96 Fibers	Ø 10.1
144 Fibers	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®/ MTP Pro® / 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® 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	-20ºC to 70ºC
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

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Ordering Information

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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
31 – 1 MTP/MPO Plug, Base-16
32 – 2 MTP/MPO Plugs, Base-16
33 – 3 MTP/MPO Plugs, Base-16
34 – 4 MTP/MPO Plugs, Base-16
35 – 6 MTP/MPO Plugs, Base-16

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
31 – 1 MTP/MPO Plug, Base-16
32 – 2 MTP/MPO Plugs, Base-16
33 – 3 MTP/MPO Plugs, Base-16
34 – 4 MTP/MPO Plugs, Base-16
35 – 6 MTP/MPO Plugs, Base-16

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 ≤0.25dB
1 – MTP Connector with Pulling Eye
M2 – MPO Connector IL ≤0.25dB
M3 – MPO Connector IL ≤0.35dB
M4 – MPO Connector IL ≤0.35dB 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 ≤0.025dB, 10 Meters