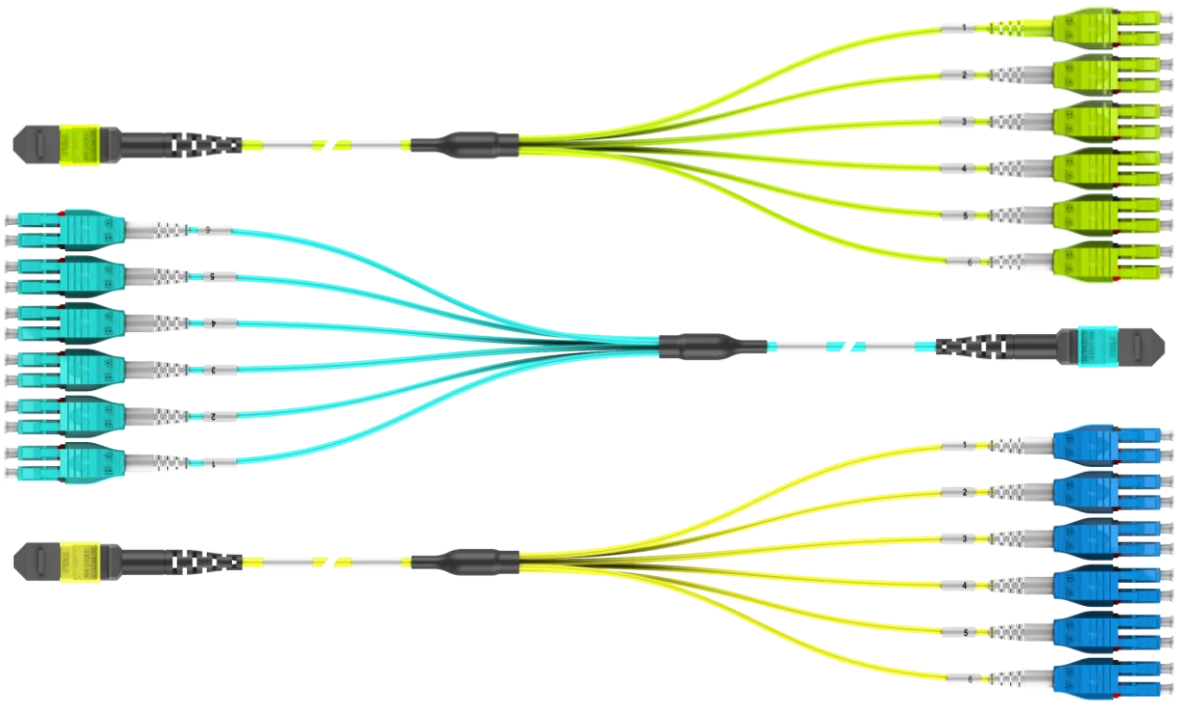
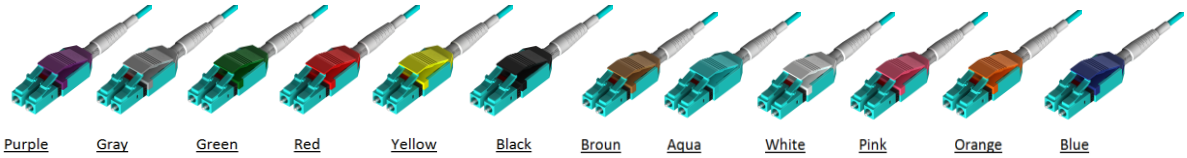
Description



RiT provides factory-terminated and tested MTP®/MPO to LC-Duplex Uniboot fiber optic fan-out cables designed specifically for high density inter-connect and cross-connect patching environments. Base-8 and Base-12 fiber cable assemblies enable easy migration from 10G to 40/100/400G Ethernet applications.
MTP® versions use US Conec MTP® Elite connectors, offering field flexibility and enhanced performance in MPO-format applications. MPO versions use standard MPO connectors. Each version is specified according to its defined insertion-loss performance.



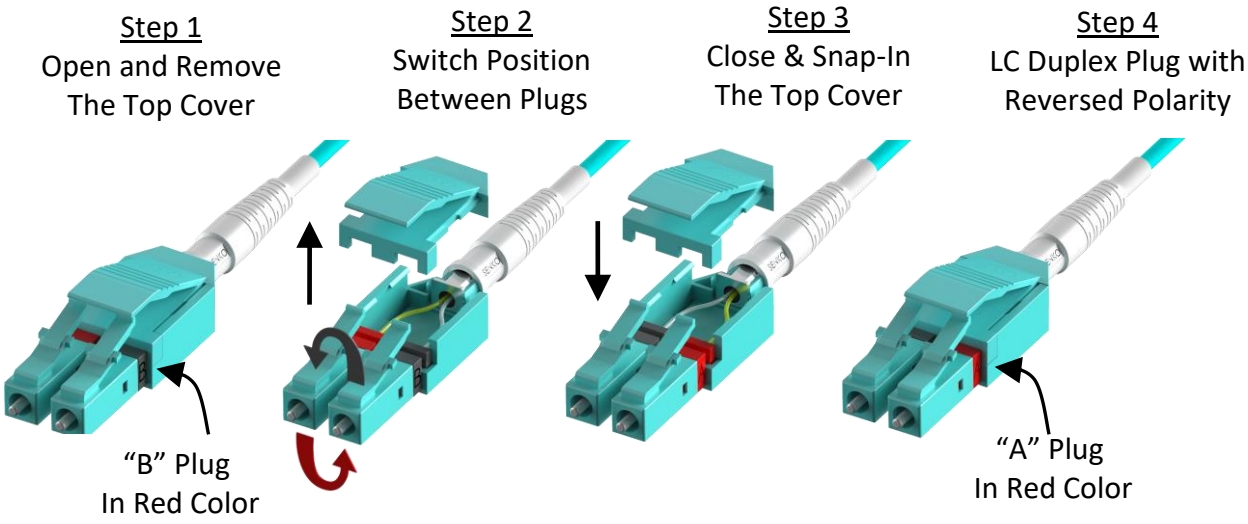
12 OPTIONAL COLORS FOR LC DUPLEX CONNECTORS

Features

- Easy cable management with reduced cable congestion and improved air flow
- 12 optional colors for coding LC-Duplex connectors
- LC-Duplex Uniboot can exchange polarity without tools
- Colored “A” in red & “B” in black for fiber identification
- Single Mode OS2 and Multi-Mode OM3/OM4/OM5 applications
- RoHS Compliant
- 100% tested and documented to ensure the transmission performance
- Optional pulling eye configuration available upon customer request

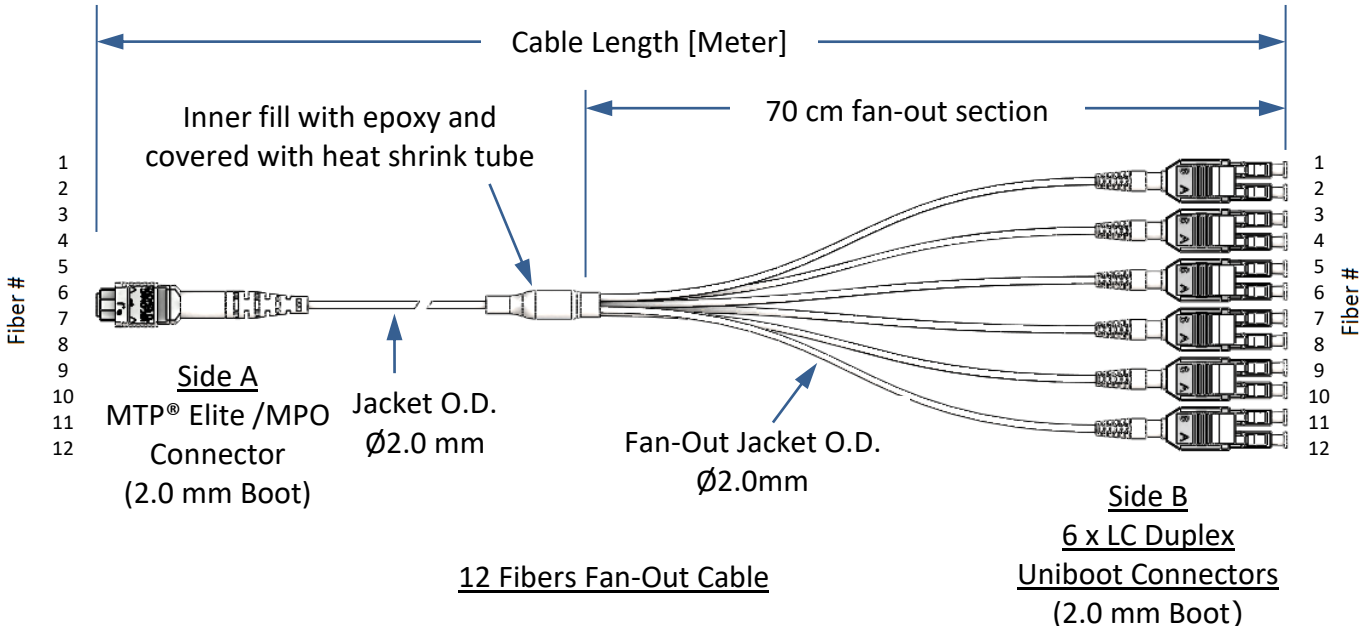
Applicable Standards:

- TIA/EIA 604-10 (LC FOCIS 10)
- TIA/EIA 604-5 (MPO FOCIS 5)
- Telcordia GR-1435-CORE Issue 2
- Low smoke: IEC 61034
- Halogen free (IEC 60754-1/2)
- Flame retardant (IEC 60332-3C)
- TIA/EIA-492AAAC/492AAAD/492AAAE Detailed Specifications
- ANSI/TIA-568-C.3
- IEEE 802.3ba (40/100GbE Standard)
- ISO/IEC 11801
- RoHS Compliant



LC-DUPLEX PLUG POLARITY CHANGE

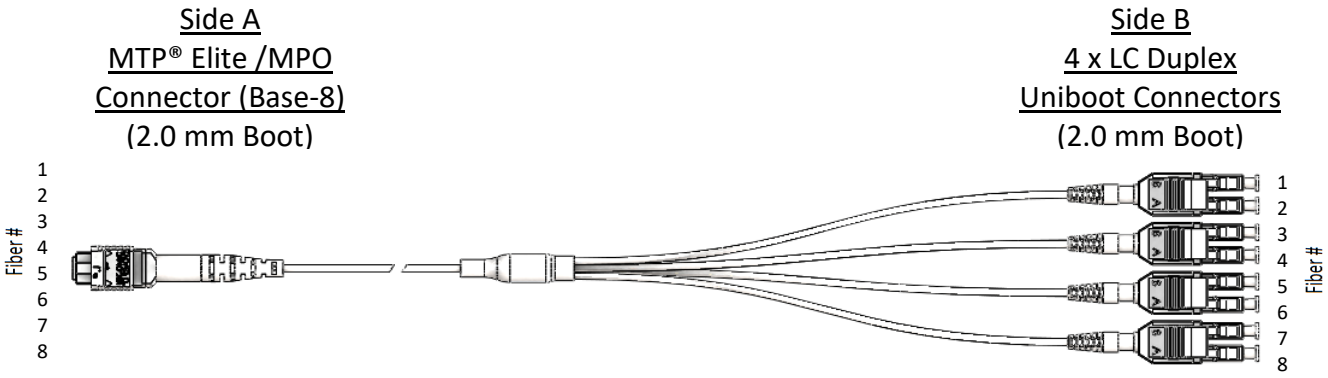
Technical Drawing



12 Fibers Fan-Out Cable

MTP/MPO Fiber # (Side A)	1	2	3	4	5	6	7	8	9	10	11	12
LC Fiber # (Side B)	1	2	3	4	5	6	7	8	9	10	11	12

12 Fibers Wiring Diagram



8 Fibers Fan-Out cable

MTP/MPO Fiber # (Side A)	1	2	3	4	5	6	7	8
LC Fiber # (Side B)	2	4	6	8	7	5	3	1

8 Fibers Wiring Diagram

Specifications

Fiber Count	8, 12
Outer Cable Jacket Diameter	Ø2.0 mm nom.
Outer Jacket Material Rating Options	FR-LSZH (Flame Retardant Low Smoke Zero Halogen)
Jacket color	OM3 & OM4: Aqua; OM5: Lemon-Green; SM OS2: Yellow
Strength Elements	Aramid Yarns
Multi-Mode OM3/OM4/OM5 Fibers	50/125µm, Bend Insensitive
Single Mode OS2 Fibers	9/125µm, ITU-T G657 A2, Bend Insensitive
Connector Type	LC DUPLEX 2.0 mm Uniboot x4/x6 8/12 Fibers US Conec, MTP® Elite /MPO MM/SM Elite x1
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
LC/MTP/MPO MM Connector Return Loss	≥25 dB max
LC/MTP/MPO SM Connector Return Loss	≥55 dB (UPC), ≥65 dB (APC)
LC Connector Insertion Loss (MM/SM)	Typical ≤ 0.1 dB, Max ≤ 0.15 dB
MTP/MPO Connector Insertion Loss (MM/SM)	Typical ≤ 0.25 dB, Max ≤ 0.35 dB
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
Minimum Static Bending Radius	30mm
Dynamic Bending Radius	50mm
Operating Temperature	-20ºC to 70ºC
Cable Retention	70 N max
Connectors retention	50N max
Crush	10 N/Cm
Connectors durability 500 cycles (EIA-455-21A)	≤0.20
Packaging	Polyethylene bag

Ordering Information

Part Number	Description
R3346XXXAA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MTP Elite , Male, SM, G657A2, IL≤0.25dB, LSZH
R3376XXXAA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MTP Elite, Female, SM, G657A2, IL≤0.25dB, LSZH
R3347XXXAA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MTP Elite, Male, MM, OM4, BI, IL≤0.25dB, LSZH
R3377XXXAA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MTP Elite, Female, MM, OM4, BI, IL≤0.25dB, LSZH
R3356XXXAA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MTP Elite, Male, MM, OM5, BI, IL≤0.25dB, LSZH
R3358XXXAA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MTP Elite, Female, MM, OM5, BI, IL≤0.25dB, LSZH
R3348XXXAA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MTP Elite, Male, SM, G657A2, IL≤0.25dB, LSZH
R3378XXXAA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MTP Elite, Female, SM, G657A2, IL≤0.25dB, LSZH
R3349XXXAA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MTP Elite, Male, MM, OM4, BI, IL≤0.25dB, LSZH
R3379XXXAA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MTP Elite, Female, MM, OM4, BI, IL≤0.25dB, LSZH
R3357XXXAA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MTP Elite, Male, MM, OM5, BI, IL≤0.25dB, LSZH
R3359XXXAA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MTP Elite, Female, MM, OM5, BI, IL≤0.25dB, LSZH
R3346XXXNA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MPO , Male, SM, G657A2, IL≤0.35dB, LSZH
R3376XXXNA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MPO, Female, SM, G657A2, IL≤0.35dB, LSZH
R3347XXXNA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MPO, Male, MM, OM4, BI, IL≤0.35dB, LSZH
R3377XXXNA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MPO, Female, MM, OM4, BI, IL≤0.35dB, LSZH
R3356XXXNA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MPO, Male, MM, OM5, BI, IL≤0.35dB, LSZH
R3358XXXNA	Xlight F/O Fan-Out, 8F, Uniboot DLC to MPO, Female, MM, OM5, BI, IL≤0.35dB, LSZH
R3348XXXNA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MPO, Male, SM, G657A2, IL≤0.35dB, LSZH
R3378XXXNA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MPO, Female, SM, G657A2, IL≤0.35dB, LSZH
R3349XXXNA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MPO, Male, MM, OM4, BI, IL≤0.35dB, LSZH
R3379XXXNA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MPO, Female, MM, OM4, BI, IL≤0.35dB, LSZH
R3357XXXNA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MPO, Male, MM, OM5, BI, IL≤0.35dB, LSZH
R3359XXXNA	Xlight F/O Fan-Out, 12F, Uniboot DLC to MPO, Female, MM, OM5, BI, IL≤0.35dB, LSZH

Note:

- XXX positions are for patch cord length in decimeters
  For example: Xlight F/O Fan-Out, 8F, Uniboot Duplex DLC-MTP Elite, Male, SM, G657A2, IL≤0.25dB, LSZH RiT P/N R3346010 for 1.0 meter, R3346015 for 1.5 meters and R3346100 for 10.0 meters
- Fan-Out cables with gradual fan-out section lengths can be ordered by request