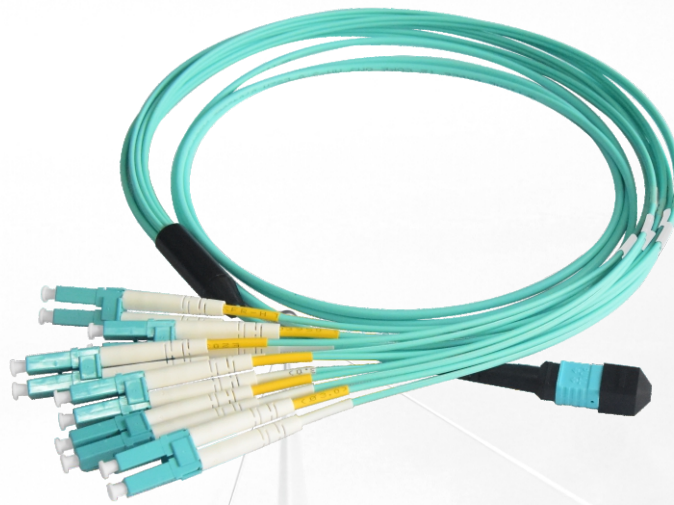




MPO/MTP® Breakout Cables Datasheet



Standards Compliance

- TIA/EIA 568.3-D
- IEC 61300-3-35
- RoHS and REACH

Features

- Low loss Connector
- Polish Type: UPC,PC,APC
- G657A1, OM3, OM4, OM5 available
- Supports 400G and 800G data rates
- Factory Pre-terminated 100% Tested

Technical Specification

ITEM	Description
Fiber Count	8~24 Fibers
Fiber Mode	Single Mode: G657A1 Multimode: OM3/OM4/OM5
Connector A	MPO Female, Male/MTP Female, Male
Connector B	LC/SC/FC/ST
Cable Jacket Ratings	PVC/LSZH/OFNP
Cable Jackets Color	SM: Yellow MM: Aqua(OM3); Violet(OM4); Lime Green(OM5)
Cable Diameter	Trunk 3.0mm, Branch 2.0mm
Connector Durability	≥500 Mating Cycles
Breakout Length	0.3m~2m
Polarity	Type A, Type B

Note: SM(Single Mode), MM(Multimode).

Connector Type Fiber Mode	MPO/MTP		LC		SC		FC/ST	
	Connector	Boots	Connector	Boots	Connector	Boots	Connector	Boots
SM/PC/UPC	Green(SL) Yellow(LL)	Black	Blue	White	Blue	Blue	/	Black
SM/APC	Green(SL) Yellow(LL)	Black	Green	Green	Green	Green	/	Green
OM3	Aqua	Black	Aqua	White	Aqua	Aqua	/	Black
OM4	Violet	Black	Violet	White	Violet	Violet	/	Black
OM5	Lime Green	Black	Lime Green	White	Lime Green	Lime Green	/	Black

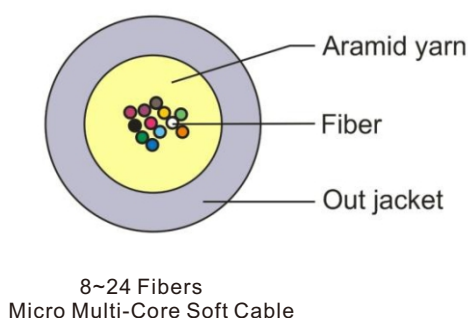
Note: SL(Standard loss), LL(Low loss);When single-mode MTP is selected, there is no PC polish and the default is low loss;

ITEM	Description
MPO/MTP Insertion Loss	Standard loss: (SM:APC $\leq$ 0.7dB; MM:PC $\leq$ 0.7dB) Low loss: (SM:APC $\leq$ 0.35dB; MM:PC $\leq$ 0.35dB)
MPO/MTP Return Loss	Standard loss: (SM:APC $\geq$ 55dB; SM:PC $\geq$ 40dB; MM:PC $\geq$ 20dB) Low loss: (SM:APC $\geq$ 60dB; SM:PC $\geq$ 50dB; MM:PC $\geq$ 25dB)
LC/SC/FC/ST Insertion Loss	SM/UPC: $\leq$ 0.3dB, SM/APC: $\leq$ 0.3dB MM/UPC: $\leq$ 0.2dB
LC/SC/FC/ST Return Loss	SM/UPC: $\geq$ 50dB, SM/APC: $\geq$ 60dB MM/UPC: $\geq$ 35B
Wavelength	SM: 1310/1550nm MM: 850/1300nm
Operating Temperature	-20~70°C
Storage Temperature	-40~70°C

Note: MPO Connectors are available in low loss or standard loss, MTP Connectors are low loss

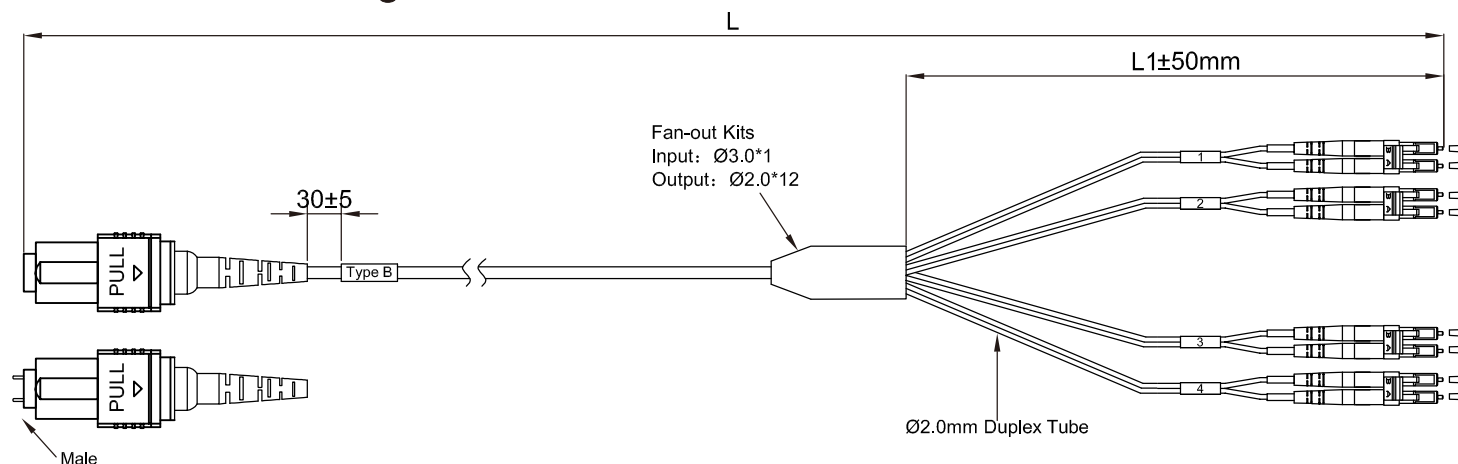
ITEM	Description
Attenuation(dB/km)	SM: $\leq$ 0.5 at 1310nm, $\leq$ 0.4 at 1550nm OM3/OM4/OM5: $\leq$ 3.5 at 850nm, $\leq$ 1.5 at 1300nm
Bandwidth(MHz*km)	OM3: $\geq$ 1500 at 850nm, $\geq$ 500 at 1300nm OM4: $\geq$ 3500 at 850nm, $\geq$ 500 at 1300nm OM5: $\geq$ 3500 at 850nm, $\geq$ 500 at 1300nm

Cable Technical Specification



ITEM	Micro Cable
Fiber Minimum Bend Radius	SM:10mm MM:7.5mm
Cable Minimum Bend Radius	Dynamic:20D Static:10D
Max.Crush Resistance	Short-term:500N/100mm Long-term:100N/100mm

Technical Drawing



Cable Length	Tolerances
$L \leq 1\text{m}$	+150mm/-0
$1\text{m} < L \leq 10\text{m}$	+150mm/-50
$10\text{m} < L \leq 30\text{m}$	+150mm/-50
$L > 30\text{m}$	+1%/-0

Ordering Information

1 2 3 4 5 6 7 8 9
 MPO/F/PC - LC/UPC - OM3 - 12B - B2.0 - 1.5M/0.5 - LSZH - Aqua - A

1-Connector A: MPO/F/PC:MPO Female PC; MTP/M/APC:MTP Male APC;

2-Connector B: LC/UPC;LC/APC; SC/UPC; SC/APC;

3-Fiber Type: OM3; OM4; OM5; G657A1;

4-Fiber Count: 12B:12F Bundled Cable; 12R: 12F Ribbon Cable; 12BR: 12F Bare Ribbon Cable;

5-Breakout Type: B2.0: 2.0mm Breakout Cable; S:No Breakout;

6-Cable Length: Total length: 1.5M, branch length: 0.5M;

7-Cable Jacket Ratings: LSZH; PVC; OFNP;

8-Cable Color: Yellow(G657A1);Aqua(OM3);Violet(OM4);Lime Green(OM5);

9-Polarity: A: Type A; B: Type B;



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