

GigaC™ MPO / MTP Harness Cable

1. Overview

The Gigalight's GigaC™ MPO / MTP harness cable assemblies, using the high density cable and MPO / MTP connector, utilizing fanout kit to assemble from trunk cable to generic fiber optic connectors such as LC, SC, FC, ST, MTRJ, etc. Available in 8/12/24/48 fibers versions as well as multi-mode (62.5/125, 10G OM2 / OM3 / OM4, Bend-insensitive fiber, etc.) and single-mode (G652D, G657A1 etc.) fiber types.



2. Benefits:

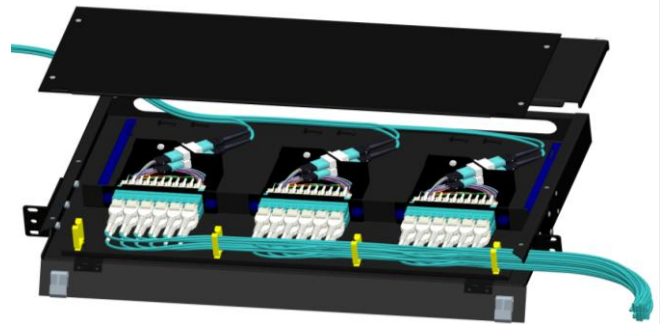
- ◆ Factory terminated & tested with guaranteed quality.
- ◆ High density to dramatically save space.
- ◆ Optimize network performance.
- ◆ The best solution covers all fiber optic cabling needs in all areas of Data Center.

3. Features

- ◆ For transition from trunk backbone assemblies to fiber rack system.
- ◆ MPO / MTP in 8/12/24 fibers interface for choices.
- ◆ Single-fiber connector interface available in LC, SC, ST, E2000, MTRJ, Mini-LC in forms of Simplex or Duplex channeling.
- ◆ Ruggedized fanout: Round or Square fanout kit with 0.9/2.0/3.0mm legs to single-fiber connectors, customized fanout length to cater for different installation situations.
- ◆ Comply with Telcordia GR-1435-CORE, GR-2866-CORE, GR-326-CORE, RoHS.

4. Applications

- ◆ For installation in horizontal patch extension from consolidation point to the workstation outlets.
- ◆ High Density Fiber Management.
- ◆ DACS.
- ◆ LAN/WAN Premises.



5. Performance

➤ MPO / MTP Termination:

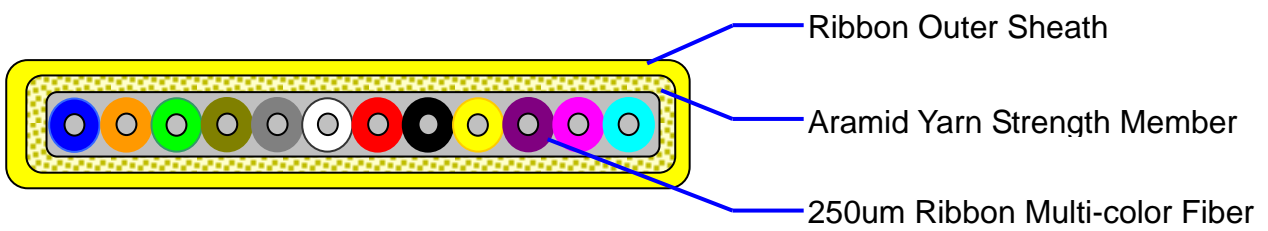
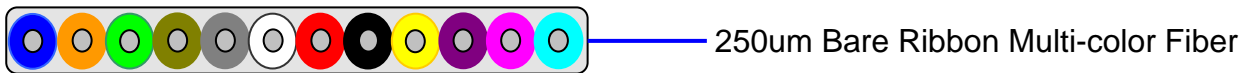
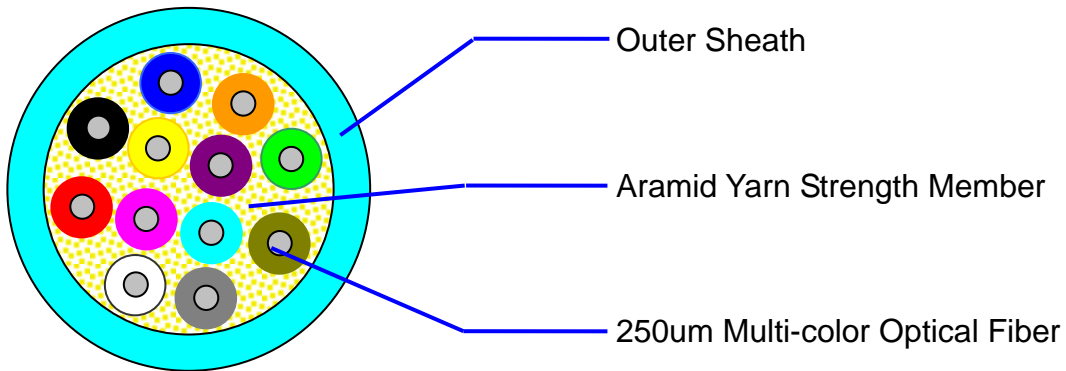
Type	Single-mode (APC polish)		Single-mode (PC polish)		Multi-mode (PC polish)	
Fiber count	4,8,12, 24 , etc.		4,8,12, 24, etc.		4,8,12, 24, etc.	
Fiber type	G652D,G657A1, etc.		G652D,G657A1, etc.		62.5/125,OM2,OM3,OM4, etc.	
Maximum Insertion Loss	Elite / Low Loss	Standard	Elite / Low Loss	Standard	Elite / Low Loss	Standard
	≤0.35 dB 0.25 dB Typical	≤0.70 dB 0.5 dB Typical	≤0.35 dB 0.25 dB Typical	≤0.70 dB 0.5 dB Typical	≤0.35 dB 0.2 dB Typical	≤0.5 dB 0.35 dB Typical
Return Loss	≥55 dB		≥45 dB		≥20 dB	
Durability	≥200 times		≥200 times		≥200 times	
Test Wavelength	1310nm / 1550nm		1310nm / 1550nm		850nm / 1300nm	

➤ Generic Connector Termination:

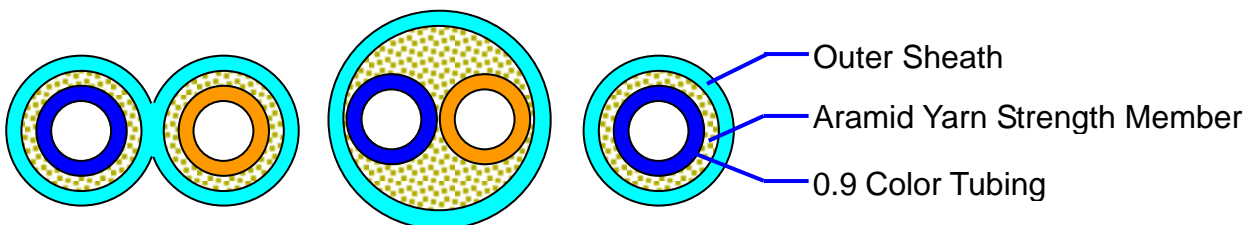
Type	Single-mode (APC polish)		Single-mode (UPC polish)		Multi-mode (UPC polish)	
Fiber type	G652D,G657A1, etc.		G652D,G657A1, etc.		62.5/125,OM2,OM3,OM4, etc.	
Maximum Insertion Loss	Low Loss	Standard	Low Loss	Standard	Low Loss	Standard
	≤0.1 dB 0.05 dB Typical	≤0.30 dB 0.25 dB Typical	≤0.1 dB 0.05 dB Typical	≤0.30 dB 0.25 dB Typical	≤0.1 dB 0.05 dB Typical	≤0.30 dB 0.25 dB Typical
Return Loss	≥60 dB		≥50 dB		≥25 dB	
Durability	≥500 times		≥500 times		≥500 times	
Test Wavelength	1310nm / 1550nm		1310nm / 1550nm		850nm / 1300nm	

Notes: All MPO/MTP cable assemblies in this document are having Straight Polarity (Type A). Cross Polarity (Type B) or Pair Flip polarity (Type C) is available.

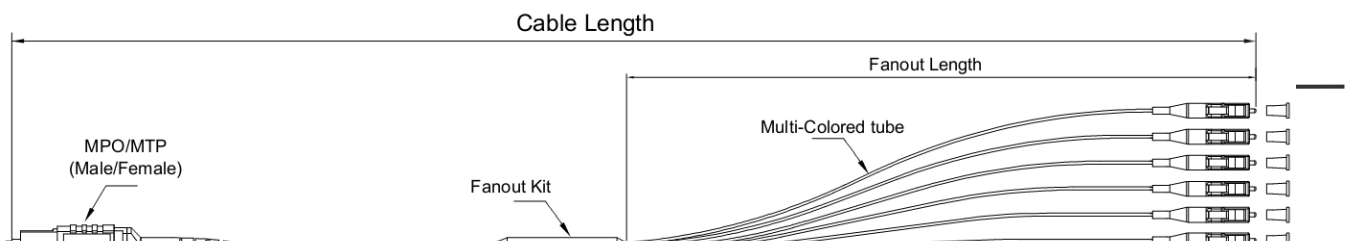
6. Cable Structure



Fanout Tubing Structure



7. Assembly drawing



Length	Tolerance
$0 \leq L < 1M$	+50/-0 mm
$1M \leq L < 10M$	+100/-0 mm
$10M \leq L$	+1% L/-0

*** Above performance and structure refer to Gigalight standard grade performance, flexible specification is available to fit for different installation needs. ***

8. Ordering information

[1] **[2]** **[3]** **[4]** **[5]** **[6]** **[7]** **[8]**
GMF - **X-XX-X** - **XXX** - **XX** - **XXXX** - **XXX/XXX** - **XXX/XXX** - **XXX**

- (1) TYPE: GigaC™ MPO/MTP Harness
- (2) INSERTION LOSS TYPE: 0=Standard, 1=Elite / Low Loss
 FIBER COUNT: 04=4-fiber, 08=8-fiber, 12=12-fiber, 24=24-fiber, etc.
 MTP/MPO CONNECTOR TYPE: M=Male (with pins), F=Female (no pins)
- (3) FIBER TYPE: SM1=G652D, SM2=G657A1, SM3=G657A2,
 MM1=OM1(62.5/125), MM2=OM2(50/125), MM3=OM3(50/125), MM4=OM4(50/125),
- (4) CABLE JACKET TYPE: OR=Riser(OFNR), LS=LSZH, OP=Plenum(OFNP), NA=No jacket
- (5) FURCATION LENGTH ON B-END: 0500=500mm, 1000=1000mm, xxxx=Customized Length
- (6) A-END CONNECTOR: MTP/APC=MTP APC Polishing, MTP/PC=MTP PC Polishing,
 MPO/APC=MPO APC Polishing, MPO/PC=MPO PC Polishing
- (7) B-END CONNECTOR: LC/APC, LC/UPC, SC/APC, SC/UPC, FC/APC, FC/UPC, MPO, MTP, etc.
- (8) OVERALL CABEL LENGTH: XXX=001~999m

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