MTP/MPO Harness Cables

Features

- Insertion loss type available in Standard, Elite / Low Loss
- Fiber count available in 8, 12, 24
- MTP/MPO connector type available in Male, Female
- Fiber type available in SM (G652D, G657A1, G657A2), MM (OM1, OM2, OM3, OM4)
- Cable jacket type available in OFNR, LSZH, OFNP
- Fanout length available in 0.5m, 1m, etc.
- Multi-fiber connector type available in MTP, MPO with APC or PC polishing type
- Single-fiber connector type available in LC, SC with APC or UPC polishing type
- Overall cable length available in 1 to 999 meters
- Factory terminated & tested with guaranteed quality
- High density to dramatically save space
- Comply with Telcordia GR-1435-CORE, GR-2866-CORE, GR-326-CORE, RoHS

Applications

- Data Center Interconnect
- High-Density Fiber Management
- Telecommunication Networks
- LAN/WAN Premises

Description

The Gigalight MTP/MPO harness cables are a kind of breakout/fanout MPO cable assembly with one MTP/MPO connector on one end and multiple single-fiber connectors (LC, SC, ST, FC, etc.) on the other end, designed for data distribution and routing to patch panels. These cable assemblies meet the demands of 10G/25G/50G Ethernet, higher speed 40G/100G/200G/400G Ethernet, and can be used for standards-compliant cable plant migration from 10G/25G/50G to 40G/100G/200G/400G.

The Gigalight harness cables are fully configurable, available with a variety of cable and connector combinations, including connector type, breakout configurations and jacket material. With highly integrated design and manufacturing capability, Gigalight provides customized MTP/MPO harness cables that are 100% tested to deliver optimal performance and reliability.

MTP/MPO Termination

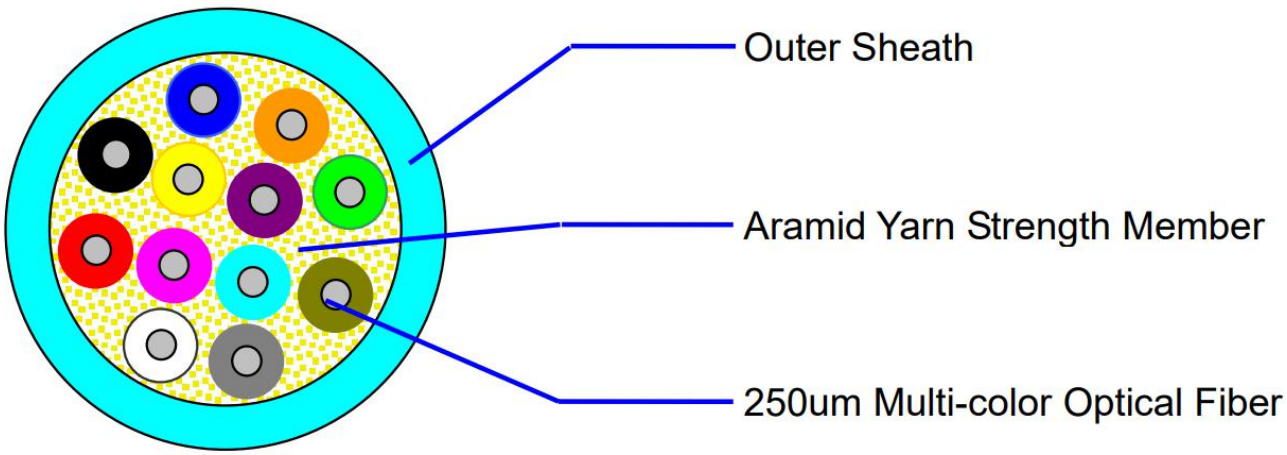
Parameter		Single-Mode (APC Polish)	Single-Mode (PC Polish)	Multi-Mode (PC Polish)
Insertion Loss (dB)	Standard	≤ 0.70 (typical: 0.50)	≤ 0.70 (typical: 0.50)	≤ 0.50 (typical: 0.35)
	Elite/Low	≤ 0.35 (typical: 0.25)	≤ 0.35 (typical: 0.25)	≤ 0.35 (typical: 0.20)
Return Loss (dB)		≥ 55	≥ 45	≥ 20
Durability		≥ 200		
Test Wavelength (nm)		1310/1550		850/1300

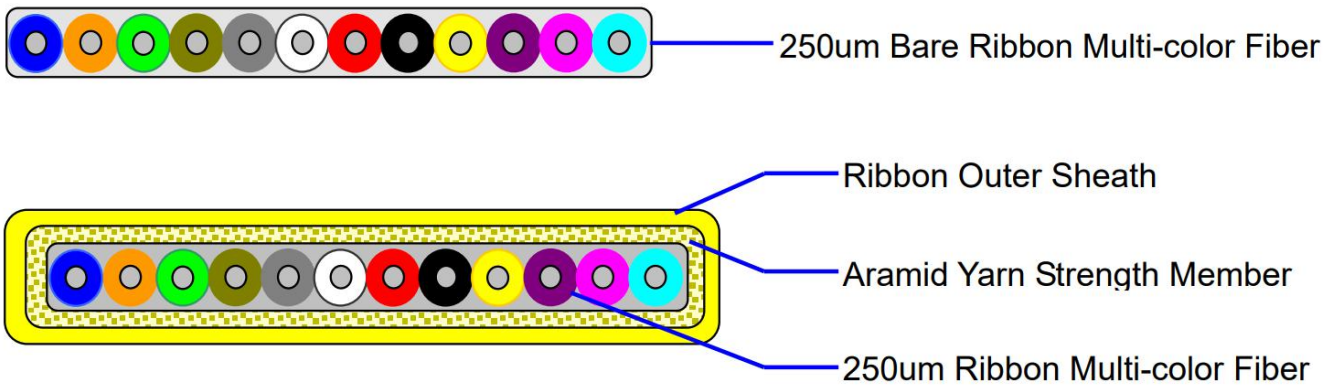
Single-Fiber Connector Termination

Parameter		Single-Mode (APC Polish)	Single-Mode (UPC Polish)	Multi-Mode (UPC Polish)
Insertion Loss	Standard	≤ 0.30 (typical: 0.25)		
	Low Loss	≤0.10 (typical: 0.05)		
Return Loss (dB)		≥ 60	≥ 50	≥ 25
Durability		≥ 500		
Test Wavelength (nm)		1310/1550		850/1300

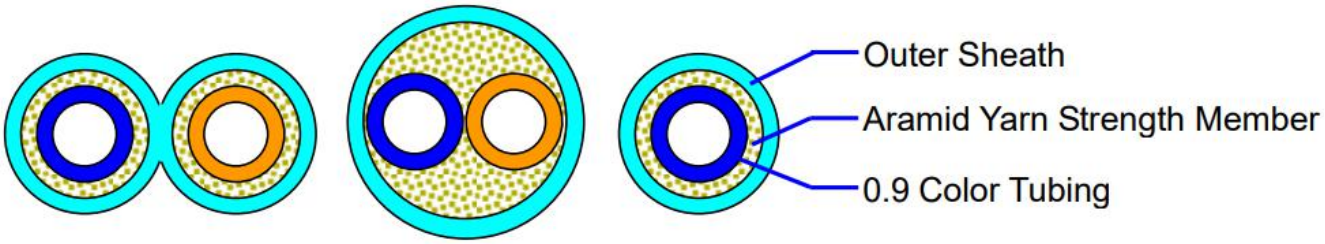
Cable Structures

1. MTP/MPO Cable

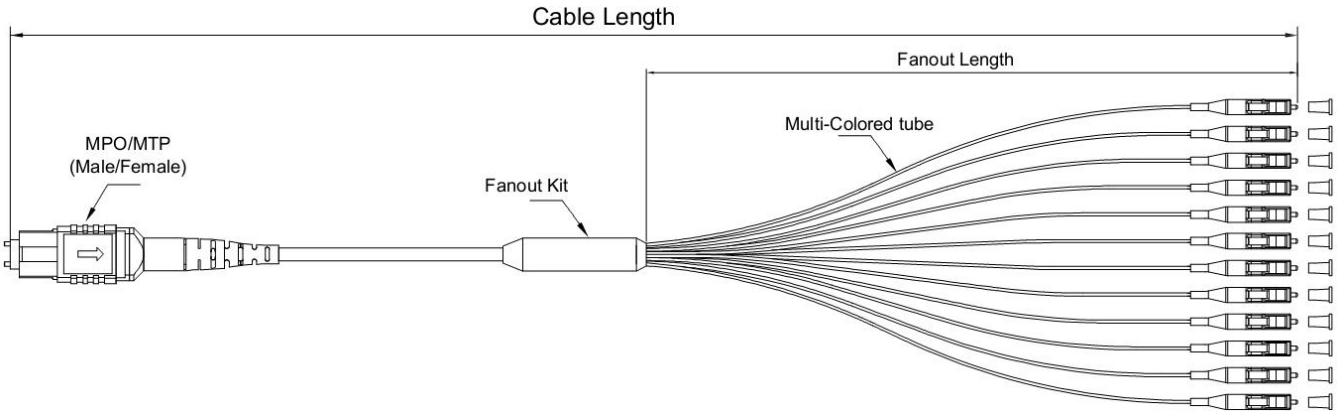




2. Fanout Cable



3. Assembly Drawing



Length	Tolerance
0 ≤ L < 1M	+50/-0 mm
1M ≤ L < 10M	+100/-0 mm
10M ≤ L	+1% L/-0

Notes:
The performance above refer to Gigalight's standard-grade performances, flexible specification is available to fit for different installation needs.

Ordering Information

GMF-	x-	xx-	x-	xxx-	xx-	xxxx-	xxx/xxx-	xxx/xxx-	xxx
1	2	3	4	5	6	7	8	9	10

1. **Product Name:** GMF=Gigalight MTP/MPO Harness Cables
2. **Insertion Loss (IL) Type:** 0=Standard, 1=Elite (Low Loss)
3. **Fiber Count:** 08=8, 12=12, 24=24
4. **MTP/MPO Connector Type:** M=Male, F=Female
5. **Fiber Type:** SM1=G652D, SM2=G657A1, SM3=G657A2, MM1=OM1, MM2=OM2, MM3=OM3, MM4=OM4
6. **Cable Jacket Type:** OR=Riser (OFNR), LS=LSZH, OP=Plenum (OFNP), NA=No Jacket
7. **Fanout Length:** 0500mm, 1000=1000mm, ...
8. **MTP/MPO Connector Polish Type:** MTP/APC=MTP/APC, MTP/PC=MTP/PC, MPO/APC=MPO/APC, MPO/PC=MPO/PC.
9. **Single-Fiber Connector Polish Type:** LC/APC=LC/APC, LC/PC=LC/UPC, SC/APC=SC/APC, SC/UPC=SC/UPC, ...
10. **Overall Cable Length:** 001=1-Meter, 002=2-Meter, ..., 999=999-Meter

Gigalight 1-Meter Elite 12F MTP/APC to LC/APC Harness LSZH OM4 Multimode Fiber Cable with 0.5-Meter Fanout
Part Number Example: GMF-1-12-M-MM4-LS-0500-MTP/APC-LC/APC-001

Important Notice

Performance figures,data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Gigalight before they become applicable to any particular order or contract. In accordance with the Gigalight policy of continuous improvement specifications may change without notice.

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