**Optical interconnect technology innovator**

GigaC™ MPO / MTP Trunk Cable

1. Overview

The Gigalight's GigaC™ Trunk Cable is part or high density structure cabling solution in data center, there are MPO to MPO and MPO to hybrid types. Plug and Play Reels, Pulling eye are designed to be quickly pulled and connected to Plug and Play Modules and Adapter Plates. GigaC™ MPO/MTP trunk cable are terminated and tested guaranteed quality for your data center cabling system.


Pulling eye

Reel package
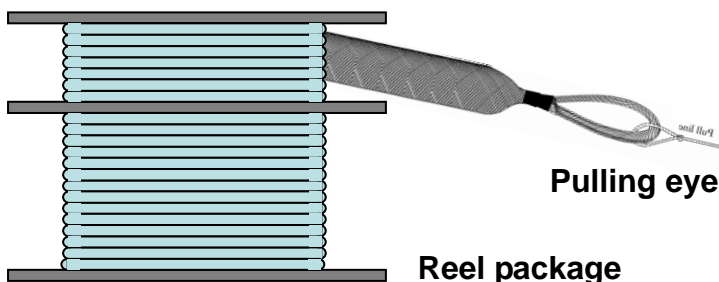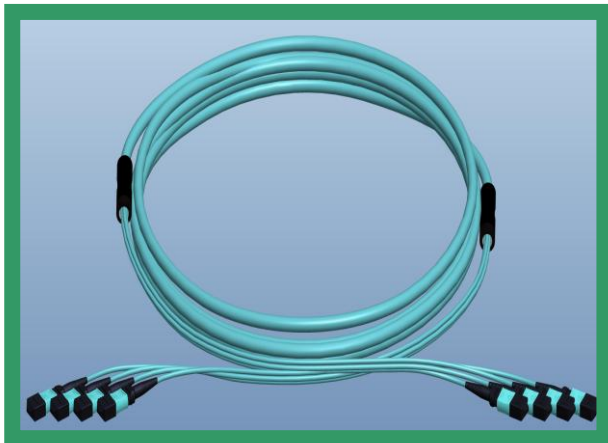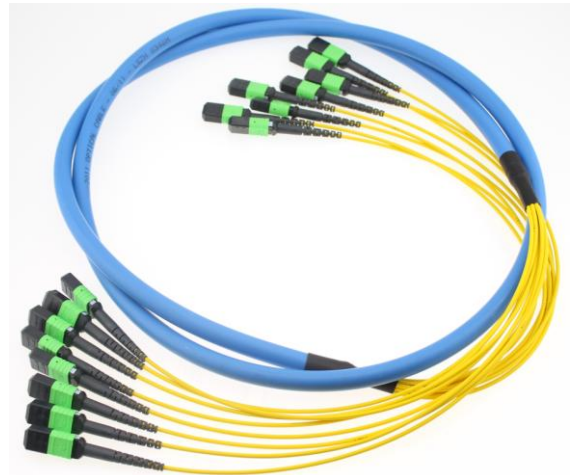
2. Features

◆ MPO / MTP connector or MPO hybrid interface patchcord.

- ◆ Available from 12 to 144 fiber Trunk cable, counts in increments of 12 fibers.
- ◆ Available in multi-mode (62.5/125, 10G OM2 / OM3 / OM4, Bend-insensitive fiber, etc.) and single-mode (G652D, G657A1 etc.) fiber types.
- ◆ Generic connector interface available in Simplex or Duplex LC, SC, etc.
- ◆ Customized dual shelf reel and pulling eye keep connectivity protected during payout.
- ◆ Comply with Telcordia GR-1435-CORE, GR-326-CORE, RoHS.

3. Applications

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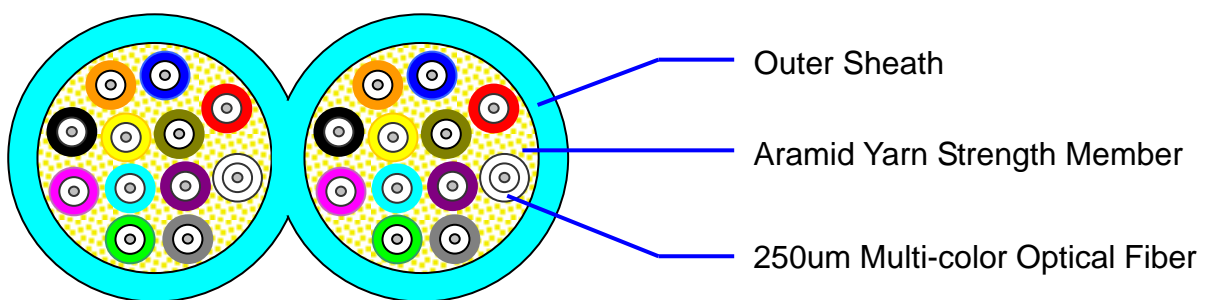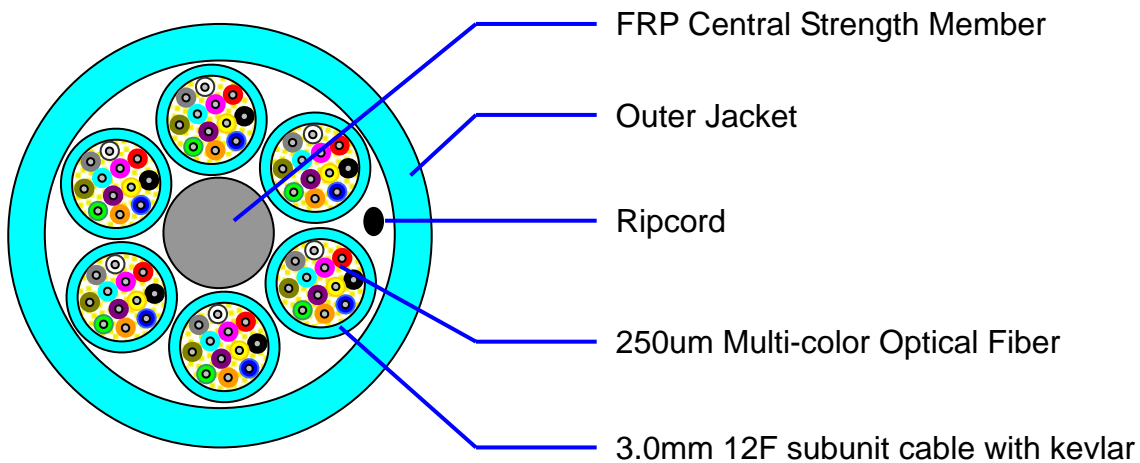- ◆ LAN/WAN Premises
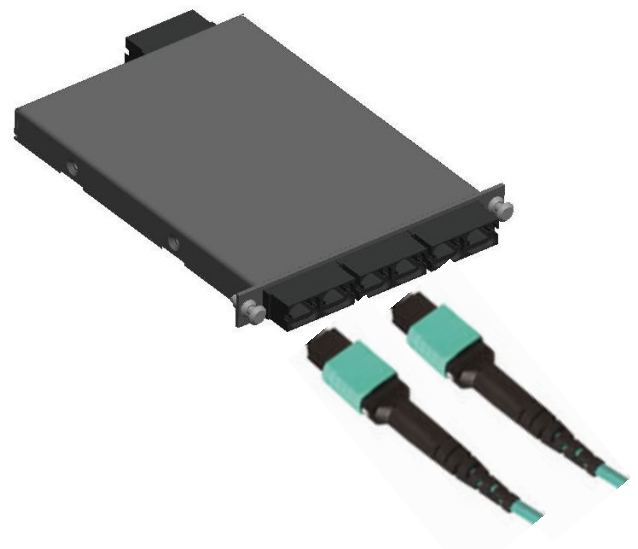
4. Performance

➢ **MPO / MTP Termination:**

Type	Single-mode (APC polish)		Single-mode (PC polish)		Multi-mode (PC polish)	
Fiber count	8,12, 24 etc.		8,12, 24, etc.		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	

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	

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.

5. Cable Structure

FRP Central Strength Member

Outer Jacket

Ripcord

250um Multi-color Optical Fiber

3.0mm 12F subunit cable with kevlar

Outer Sheath

Aramid Yarn Strength Member

250um Multi-color Optical Fiber

6. Assembly drawing

12F Subunit cable with kevlar

Trunk Cable

LABEL

Black Heat Shrink Tube

Furcation Length

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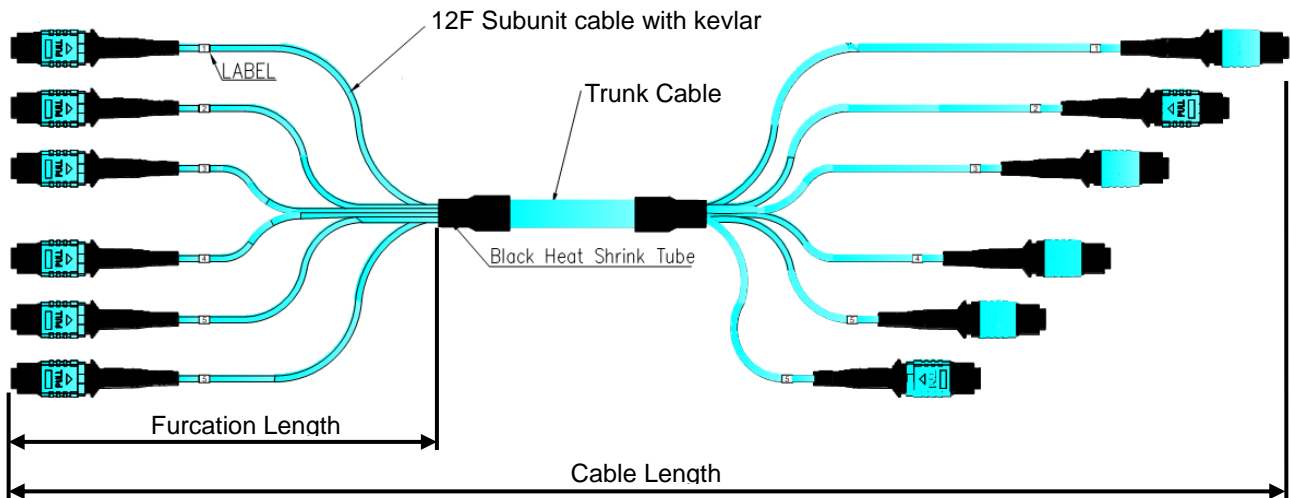
Length	Tolerance
0 ≤ L < 1M	+50/-0 mm
1M ≤ L < 10M	+100/-0 mm
10M ≤ L	+1% L/-0

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

7. Ordering information

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 (1)        (2)         (3)        (4)        (5)         (6)          (7)          (8)         (9)
GMF-X  -  X-XX-X   -   XXX    -    XX    -   XXXX    -    XXXX    -  XXX/XXX  -  XXX/XXX  -   XXX
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⑴ TYPE: GigaC™ MPO/MTP Trunk Cable
   X=Patchcord Polarity (A=Type A, B=Type B, C=Type C, R=Corning Type)
⑵ 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, F=Female, H=Male to Female
⑶ 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),
⑷ CABLE JACKET TYPE: OR=Riser(OFNR), LS=LSZH, OP=Plenum(OFNP), NA=No jacket
⑸ FURCATION LENGTH ON A-END: 0500=500mm,1000=1000mm, xxxx=Customized Length
⑹ FURCATION LENGTH ON B-END: 0500=500mm,1000=1000mm, xxxx=Customized Length
⑺ A-END CONNECTOR: MTP/APC=MTP APC Polishing, MTP/PC=MTP PC Polishing,
   MPO/APC=MPO APC Polishing, MPO/PC=MPO PC Polishing
⑻ B-END CONNECTOR: MTP/APC=MTP APC Polishing, MTP/PC=MTP PC Polishing,
   MPO/APC=MPO APC Polishing, MPO/PC=MPO PC Polishing
⑼ OVERALL CABEL LENGTH: XXX=001~999m

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