

Loopback (MTP/MPO/SC/LC)



MTP Loopback with housing and pull-tab

The loopback is both ends of fiber in a duplex connector or a multi-fiber connector, then the optical signal in the same connector, don't change signals or repeated back to its itself. It can provide an effective solution, test the emission ability of the network equipment and receive sensitivity, especially in 40/100G network communication through back signal positioning can be all kinds of potential phenomenon, so as to achieve optical fiber network in pairs on a single element or interface and effective test and evaluation of the Internet.



Applications

- System loop test
- Optical loop test
- Aging and testing of the system

Features

- Duplex connector or multi fiber connector
- MPO or MTP connector (for multi-fiber connector)
- Standard loss or low loss (for multi-fiber connector)
- PC or APC polish
- Cable form or housing form
- Available in G.652, G.657, OM1, OM2, OM3, OM4 fiber
- Option for LSZH, OFNR or OFNP cable jacket
- Option for A, B or C polarity or Customized (for multi-fiber connector)
- Customized length available(multi-fiber connector $\geq 15\text{cm}$; duplex connector $\geq 7.5\text{cm}$)
- 100% factory terminated and tested

Standards Compliance

- TIA/EIA-568.3-D
- ISO/IEC 11801
- IEC-61754 Series
- EIA/TIA-604 Series
- GR-326-CORE/GR-1435-CORE
- RoHS

General Specification

Construction	Description
Fiber Count	2fibers for duplex type; 2-24fibers for multi-fiber connector
Fiber Mode	Singlemode: G.652/G.657 (9/125um) Multimode: OM1 (62.5/125 um) OM2, OM3, OM4 (50/125um);
Fiber Brand	Corning SMF-28® Ultra optical fiber Corning ClearCurve® multimode fiber
Cable Jacket Ratings	Low Smoke Zero Halogen (LSZH) Riser (OFNR) Plenum (OFNP)
Cable Jacket Color	G.652/G.657: Yellow OM1&OM2: Orange OM3: Aqua; OM4: Aqua/Magenta or Customized
Connector Type	SC, LC, MPO, MTP

Information and specifications are subject to change without notice.
Please visit www.china-tscom.com for more information.

Connector Color (SC/LC)	SM(APC) Green	SM(PC) Blue	OM3 Aqua	OM4 Magenta/Aqua	or customized	
Connector Color (MTP/MPO)	Low Loss Standard	SM(APC) Yellow Green	SM(PC) Yellow Blue	OM3 Aqua Aqua	OM4 Magenta/Aqua Magenta/Aqua	or customized
Loopback housing color	black					
Operating Temperature	-20°C to + 70°C					
Storage Temperature	-40°C to + 85°C					

Technical Specification

Optical Properties	Singlemode	Multimode
Insertion Loss (dB)(SC,LC etc.)	APC \leq 0.30 (Typical: \leq 0.15)	APC \leq 0.30 (Typical: \leq 0.10)
	UPC \leq 0.20 (Typical: \leq 0.1)	PC \leq 0.20 (Typical: \leq 0.1)
Insertion Loss (dB)(MTP/MPO)	Low loss \leq 0.35 (Typical: \leq 0.25)	Low loss \leq 0.35 (Typical: \leq 0.2)
	Standard Loss \leq 0.75 (Typical: \leq 0.4)	Standard Loss \leq 0.6 (Typical: \leq 0.35)
Return Loss (dB)	PC \geq 50; APC \geq 60	PC \geq 20; APC \geq 40
Durability	\leq 0.2 dB typical change, 50 matings	
Wavelength (nm)	Singlemode: 1310/1550, Multimode: 850/1300	
Fiber Attenuation (dB/km)	Singlemode: \leq 0.35 at 1310nm, \leq 0.2 at 1550nm	
	Multimode: \leq 3.0 at 850nm, \leq 1.0 at 1300nm	
Transmission Distance	OM4: 150m at 40/100G, 550m at 10G	
	OM3: 100m at 40/100G, 300m at 10G	