

## MTP/MPO fiber optic loopback

### Descriptions

MTL is mainly used to test communication or light path is designed to be "circle" and receiver connected to the transmission end, ability to launch and receive sensitivity test network equipment, especially the requirement of telecommunication and data communication. Product belongs to high density compact, but add attenuation coefficient, the protective shell internal fiber to ensure stability and reliability of the product.

### Features

- ▶ Improves and simplifies fiber routing
- ▶ Low Insertion Loss, High Return Loss
- ▶ High quality Ferrule, High Density
- ▶ Compliant Telcordia GR-326-CORE, Rohs

### Applications

- ▶ Aging of network component system
- ▶ System wiring system loop test
- ▶ Test the circuit of optical cable

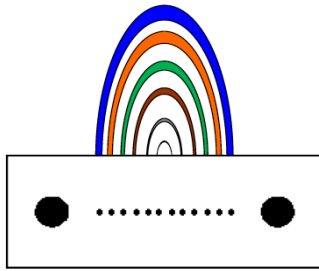


### Specifications

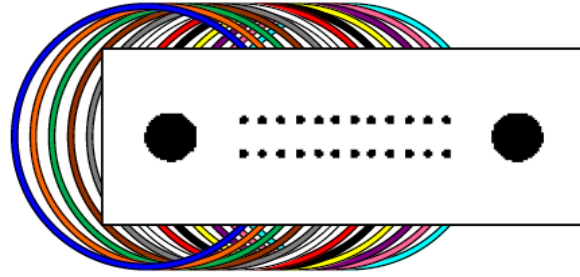
| Parameter                | Specification                                                                                                                                                                                                                                      |                     |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Connector Type           | MTP or MPO(male/female) ; Fiber Count : 8F、12F、16F、24F                                                                                                                                                                                             |                     |
| Operating wavelength(nm) | SM                                                                                                                                                                                                                                                 | MM                  |
|                          | 1550                                                                                                                                                                                                                                               | 850                 |
| Type Polarity            | Refer to the attached chart , according to the customer's requirement                                                                                                                                                                              |                     |
| Polishing Angle          | PC、APC(8°)                                                                                                                                                                                                                                         | PC                  |
| Fiber type               | OS1、1550Attenuation Fiber etc                                                                                                                                                                                                                      | OM1、OM2、OM3、OM4 etc |
| Insertion loss(dB)       | G652D $\leq 1.5$ ; G657 $\leq 0.7$                                                                                                                                                                                                                 | $\leq 1.2$ dB       |
|                          | Increase the optical fiber attenuation parameters are shown below<br>Attenuation range: 1 dB, 2 dB, 3 dB, 5 dB, 10 dB, 20 dB etc.<br>Attenuation precision: $\pm 1$ dB (Attenuation range $\leq 10$ dB) , $\pm 10\%$ (Attenuation range $> 10$ dB) |                     |
| Return loss(dB)          | UPC $\geq 20$ dB, APC $\geq 55$ dB                                                                                                                                                                                                                 | /                   |
| Repetitiveness (dB)      | $\leq 0.20$                                                                                                                                                                                                                                        |                     |
| Interchangeability (dB)  | $\leq 0.20$                                                                                                                                                                                                                                        |                     |
| Durability               | MTP or MPO Plug-in & out $\geq 500$ times                                                                                                                                                                                                          |                     |
| Operating temp           | $-40^{\circ}\text{C}$ to $+80^{\circ}\text{C}$                                                                                                                                                                                                     |                     |
| Storage Temp             | $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$                                                                                                                                                                                                     |                     |

Remark: Customized different connector type/ length tolerance/specifications.

## Type Polarity Mode



Type A: 1~N,2~(N-1),3~(N-2),4~(N-3),.....



Type B: 1~(N/2+1),2~(N/2+2),3~(N/2+3),4~(N/2+4)

## Ordering Information

| MTL - A/B/C/D — E — F                  |                            |                                                       |
|----------------------------------------|----------------------------|-------------------------------------------------------|
| <b>A</b>                               | MT Type                    | MTP MPO                                               |
| <b>B</b>                               | Female or Male             | F - Female M - Male                                   |
| <b>C</b>                               | Polishing Angle            | PC APC                                                |
| <b>D</b>                               | Number of Ferrule Channels | 8 - 8F 12 - 12F 16 - 16F 24 - 24F etc                 |
| <b>E</b>                               | Type Polarity Mode         | Type A: 1~N,2~(N-1),3~(N-2),4~(N-3),.....             |
|                                        |                            | Type B: 1~(N/2+1),2~(N/2+2),3~(N/2+3),4~(N/2+4),..... |
| <b>F</b>                               | Fiber Type                 | OS1 OM1 OM2 OM3 OM4 etc                               |
| For example MTL-MTP/F/PC/24-Type A-OM4 |                            |                                                       |

Notes: N is the number of ferrule fiber holes,  $N \geq 4$ , even number.