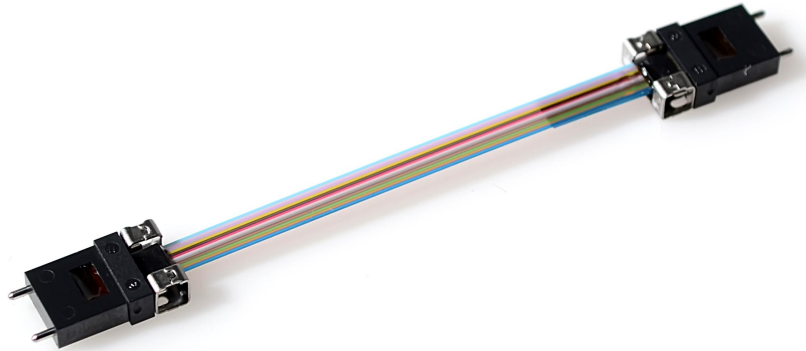


MT Patch Cords Specification

Application

1. QSFP quad small form-factor pluggable
2. SFP+ active optical cables
3. Parallel light optical transceiver module
4. Communication
5. Military applications
6. Data centers
7. Super computers

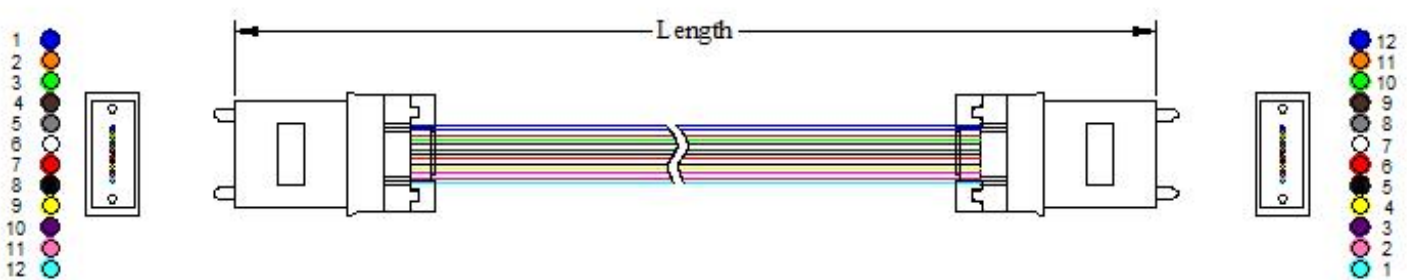


Features

1. Transmission rate: 40Gbps/100Gbps/168Gbps
2. GR-1435 compliant
3. Simple structure easy to locate
4. Low cost
5. Customized products available

Dimensional Diagrams

1. MT Patch Cords



MPO&MTP Optical Characteristics

| Item | Parameter | | | | Reference |
|----------------|--|--|--|--|----------------|
| | Single mode | | Multimode | | |
| | Standard | Elite | Standard | Elite | |
| Insertion loss | Typical $\leq 0.30\text{dB}$ Max $\leq 0.75\text{dB}$ | Typical $\leq 0.15\text{dB}$ Max $\leq 0.35\text{dB}$ | Typical $\leq 0.50\text{dB}$ Max $\leq 0.25\text{dB}$ | Typical $\leq 0.10\text{dB}$ Max $\leq 0.35\text{dB}$ | IEC 61300-3-34 |
| Return loss | $\geq 50\text{dB}$ (PC) $\geq 60\text{dB}$ (APC) | $\geq 55\text{dB}$ (PC) $\geq 65\text{dB}$ (APC) | $\geq 30\text{dB}$ (PC) | $\geq 30\text{dB}$ (PC) | IEC 61300-3-6 |

End-Face Quality (SM)

| Zone | Range (μm) | Scratches | Defects | Reference |
|--------------------|------------|-----------|---------|---------------------|
| A: Core | 0 to 25 | None | None | IEC 61300-3-35:2015 |
| B: Cladding | 25 to 115 | None | None | |
| C: Adhesive | 115 to 135 | None | None | |
| D: Contact | 135 to 250 | None | None | |
| E: Rest of ferrule | | None | None | |

End-Face Quality (MM)

| Zone | Range (μm) | Scratches | Defects | Reference |
|--------------------|------------|-----------|---------|---------------------|
| A: Core | 0 to 65 | None | None | IEC 61300-3-35:2015 |
| B: Cladding | 65 to 115 | None | None | |
| C: Adhesive | 115 to 135 | None | None | |
| D: Contact | 135 to 250 | None | None | |
| E: Rest of ferrule | | None | None | |

MPO&MTP End-Face Geometry

| Ferrule parameter | | IEC-61300-3-30 | |
|-------------------|----------|----------------|---------|
| | | Minimum | Maximum |
| ROC | ROC-X: | 2000mm | ∞ |
| | ROC-Y: | 50mm | ∞ |
| Angle | Angle-X: | -0.2° | 0.2° |
| | Angle-Y: | PC | 0.2° |
| | | APC | 7.85° |
| Fiber Hight: | | 1000nm | 3500nm |
| Max.DH.All: | | -300nm | 300nm |
| DH.Adj: | | -300nm | 300nm |
| DH.Ave Fiber: | | -300nm | 300nm |
| Core Dip: | MM | -200nm | 300nm |
| | SM | N/A | N/A |
| Ferrule height | | 7.9mm | 8.05mm |