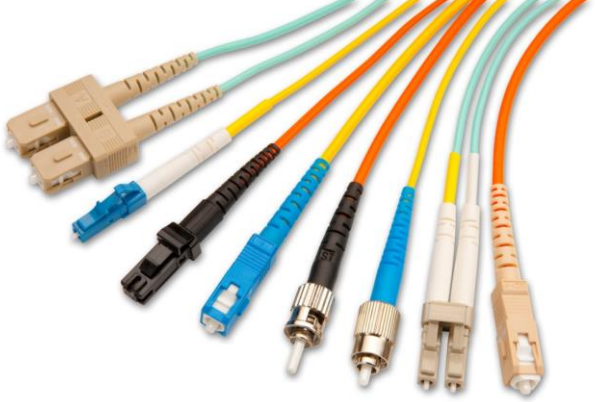

Fiber Optic Jumper Cables: Multimode and Single Mode

Data Sheet

Description

Our fiber optic cables are full-spectrum optics that meet Telcordia and ISO/IEC specs and are RoHS compliant. They are built to allow a wide range of flexibility in usage and application.

Applications

- Data Communications
- Telecommunications
- Gigabit Ethernet
- Optical Access Network

Features

- Available in Duplex and Simplex, 1 through 20 meter length
- 2mm and 3mm Riser/PVC(OFNP), RoHS compliant
- Low back reflection and insertion loss
- 100% quality tested, including Quality Control Report

Transmission Distance over Fiber

Cross Section	Core Description	Fiber Type	Distance
	Multimode 62.5/125	**OM1**	Max Distance @ 100mb= 2km Max Distance @ 1GB= 275m Max Distance @ 10GB= 35m
	Multimode 50/125	**OM2**	Max Distance @ 100mb= 2km Max Distance @ 1GB= 550m Max Distance @ 10GB= 90m
	Multimode 50/125 Laser Enhanced	**OM3**	Max Distance @ 100mb= 2km Max Distance @ 1GB= 1km Max Distance @!0GB= 300m
	Multimode 50/125 Laser Enhanced	**OM4**	Max distance @ 100mb= 2km Max distance @ 1GB=1km Max distance @ 10GB=400M
	Single Mode 9/125	**OS1/OS2**	Max distance @ 100mb> 22,500km Max distance @ 1GB= 5,700km to 22,500km Max distance @ 10GB= 60km to 225km

Core

Cladding

Buffer Coating

Fiber Types

1. Multimode 62.5/125 (OM1)
2. Multimode 50/125 (OM2)
3. 10Gig Multimode Laser Optimized / Laser Enhanced 50/125 (OM3 and OM4)
4. Single Mode 9/125 (OS1/OS2)

Standard Connector Types and Jacket Diameter

- **LC** and **MT-RJ** Connectors in **2mm** (actual: 1.8mm)
- **SC, ST** and **FC** Connectors in **3mm** (actual: 2.8mm)
- Note: All connectors use **2mm** jacket when selecting 10gGig Multimode 50/125 (OM3 and OM4)

Standard Cable Jacket Color

- **Orange:** Multimode 62.5/125 (OM1) and 50/125 (OM2)
- **Aqua:** Multimode 10Gig 50/125 (OM3 and OM4)
- **Yellow:** Single Mode 9/125 (OS1/OS2)

Standard Connector Polish

- **PC Polish:** Multimode 62.5/125 (OM1), 50/125 (OM2), 10Gig 50/125 (OM3 and OM4)
- **UPC Polish:** Single Mode 9/125 (OS1/OS2)

Maximum Return Loss

For LC, SC, ST, MT-RJ, and FC:

- PC Polish on all Multimode (OM1, OM2, OM3, and OM4) **≥ 35 dB**

For LC, SC, ST, and FC:

- UPC Polish Single Mode 9/125 (OS1/OS2) **≥ 50dB**

For MT-RJ:

- UPC Polish Single Mode 9/125 (OS1/OS2) **≥ 35 dB**

Typical/Maximum Insertion Loss

For LC, SC, MT-RJ, and FC:

- PC Polish on all Multimode (OM1, OM2, OM3 and OM4) **≤ 0.20/ ≤ 0.30 dB**
- UPC Polish Single Mode (OS1/OS2) **≤ 0.15/ ≤ 0.30 dB**

Custom Options

Custom options for polish, jacket, colors, and lengths also available.