



CUSTOMCABLE

AN MFLIGHTWAVE COMPANY



DESCRIPTION

Custom Cable produces factory terminated MTP® fiber optic cable assemblies with exceptional performance for use over wide data center and critical network applications. All assemblies are manufactured to the highest standards required of today's expanding networks and requirements for the highest density and bandwidth.

Solutions are constructed with the highest quality and smallest diameter laser optimized fiber cable available to maximize performance while reducing installation density. All OM3 and OM4 fiber assemblies are tested for network transmission speeds up to 10 Gb/s for link lengths up to 300m for OM3 and up to 500 meters for OM4 at 850nm to assure high performance and reliability. Assemblies are available with MTP® standard or Elite® connectors for exceptional loss performance.

Each assembly is uniquely serialized and shipped with hard copy test reports. Assemblies are available with short lead times for either standard or custom lengths. Custom assembly kitting per job site is available along with custom labeling, pulling socks, and/ or packaging.

APPLICATIONS

- Data Centers
- Emerging 40Gb and 100GBE Protocols
- High Speed Computing
- Optical Switch inter-frame connections
- Gigabit Ethernet

FEATURES AND BENEFITS

- MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5) Connectors
- Micro-core Cable - 12, 24, 48, 72, 96, 144 cores (ISO/IEC 60794)
- Plug & Play Solution for Design Flexibility
- Custom Fan-out LC/SC Trunks
- 100% Factory Tested for Insertion Loss and Fiber Geometry
- Serialized Cable Traceability to Test Data
- Quick Production Lead Times



DATA SHEET

MTP® Fiber Optic Assemblies



CONNECTOR PERFORMANCE

CONNECTOR PERFORMANCE	IL AVERAGE	IL MAX	RETURN LOSS
MTP Elite (MM)	0.10dB	0.35dB	N/A
MTP (MM)	0.20dB	0.60dB	N/A
MTP Elite (SM)	0.10dB	0.35dB	>60dB
MTP (SM)	0.25dB	0.75dB	>60dB

CABLE PERFORMANCE

FIBER TYPE (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm) ≤ 0.25 Max (1300nm) ≤ 0.34 Typ (1550nm) ≤ 0.19 typ (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.9 Typ (850nm) ≤ 1.2 typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	N/A	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	N/A	N/A	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)

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