

# Fiber Optic Cables



## Mohawk's Range of Fiber Optic Cables for Gigabit Applications

Mohawk has been manufacturing and testing fiber optic cable in accordance with many industry standards, including Telcordia, RUS and TIA/EIA, since 1990. Cables are listed by Underwriters Laboratories (UL) for compliance with the National Electrical Code and Canadian Electrical Code.

Cables are available with fiber counts ranging from 1 to 216 in multimode, single-mode or hybrid versions. They are compatible with all major manufacturers' connectivity hardware, including LID fusion splicers.

Mohawk's ISO 9001 registration assures our customers of consistent quality. Also, by working closely with customers, vendors, and industry organizations, Mohawk can help determine the best solution for a given application.

Cables feature fiber that is optimized for laser-based protocols, yet these cables are still compatible with LED systems. They provide guaranteed link lengths to handle multi-gigabit transmission while maintaining full compatibility with existing installed FDDI-grade cable.

### Optical Characteristics

Meets or exceeds ISO/IEC 11801	OM1	OM1	OM2	OM3	OM4	OS2
Grade	2	3	4	5	6	SM
<b>Glass Type</b>	62.5/125 MM	62.5/125 MM	50/125 MM	50/125 MM	50/125 MM	Single-Mode Enhanced <sup>6</sup>
<b>Part Number Code (X)</b>	B	D	A	C	E	W
<b>Operating Wavelength (nm)</b>	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
<b>Min. OFL<sup>1</sup> Bandwidth (MHz-km)</b>	200/500	200/500	500/500	1500/500	3000/500	—
<b>Min. Laser<sup>2</sup> Bandwidth (MHz-km)</b>	220/500	385/500	510/500	2000/500	4700/500	—
<b>Max. Attenuation Loose Tube (dB/km)</b>	3.25/1.0	3.25/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.40/0.30
<b>Max. Attenuation Tight Buffered<sup>3</sup> (dB/km)</b>	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
<b>100 Mbit Fast Ethernet Min. Link Length (meters S/L/E<sup>4</sup>)</b>	300/2000	300/2000	300/2000	300/2000	300/2000	5000/—
<b>1 Gigabit Ethernet Min. Link Length (meters S/L/E<sup>4</sup>)</b>	300/550	500/1000	600/600	1000 <sup>5</sup> /600	1000 <sup>5</sup> /600	5000/—
<b>10 Gigabit Ethernet Min. Link Length (meters S/L/E<sup>4</sup>)</b>	33/300	33/300	150/300	300/300	550/300	10,000/40,000

<sup>1</sup> OFL – Overfilled Launch

<sup>2</sup> Effective Modal Bandwidth, determined by RML or DMD performance specifications

<sup>3</sup> Max. Attenuation for Tight Buffered, Ribbon & VersaLite Cables

<sup>4</sup> S/L/E – Short wavelength (850 nm) / Long wavelength (1310 nm) / Extra long wavelength (1550 nm)

<sup>5</sup> >2000 meters for engineered links

<sup>6</sup> Low water peak Single-Mode suitable for CWDM use complies with ITU G.652.c/d