

# Fiber Testing Method

## Optical Properties

Testing characteristics	Testing Parameter	EIA/TIA-455 FOTP Number	IEC-793-1 Test Method	ITU-T Test Method
Fiber Geometry	Transmitted Near Field	MM: 58	A2	SM: G.650 Method 2.2.1 MM: G.651, Sec. 1, Method B.3
Spectral Attenuation	Cut-Back	SM Fibers: 78 MM Fibers: 46	C1A	SM: G.650 Method 2.4.1 MM: G.651, Sec. 2.1, Method B.2
Attenuation Uniformity at Specified Wavelengths	Backscattering (OTDR)	61 and 59	C1C	SM: G.650 Method 2.4.2 MM: G.651, Sec. 2, Method B.4
Numerical Aperture (MM)	Far-Field Light Distribution	47	C6	G.651, Sec. 1, Method B.4
Cutoff Wavelength (SM)	Transmitted Power	80, 170	C7A	G.650, Methods 2.3.1, 2.3.3
Mode Field Diameter (SM)	Variable Aperture	167	-	G.650 Method 2.1.2
Bandwidth (MM)	Frequency Domain	30	C2B	G.651 Sec. 3 Method B.2
Chromatic Dispersion (SM)	Pulse Delay	168	C5B	G.650 Method 2.5.3

## Mechanical Properties

Testing Characteristics	EIA/TIA-455 FOTP Number	IEC-794-1 Test Method	EN 187000 Test Method *
Operating and Pulling Load	33	E1	501
Minimum Bending Radius	33	E1	501
Compression (Crush)	41	E3	504
Impact Resistance	25	E4	505
Twist (Torson)	85	E7	508
Cyclic Flexing (Repeated Bending)	104	E6	509
Temperature Cycling	3	F1	601

\* Equivalent to BS EN 187000, DIN EN 187000 and VDE 0888 Teil 100

