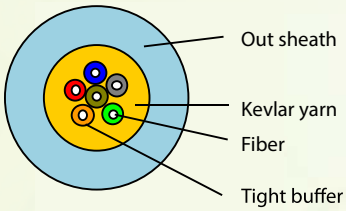
TECH
TELECOMMUNICATION TECHNOLOGY

FIBER CABLE
Fiber Indoor Distribution Cable
Multimode 50um OM3



FIBER OPTIC

Category	Description		Specifications	
			Before cabling	After cabling
Optical Characteristics	Attenuation	@ 850 nm @1300 nm	≤2.3 dB/km ≤0.6 dB/km	≤3.0 dB/km ≤1.0 dB/km
	OFL bandwidth	@ 850 nm @1300 nm	≥ 1500 MHz.km ≥ 500 MHz.km	
	Effective modal bandwidth	@ 850nm @1300 nm	≥ 2000 MHz.km ≥ 500 MHz.km	
	Application support distance on	10 Gigabit Ethernet SX@850 nm Gigabit Ethernet SX@850 nm Gigabit Ethernet LX@1300 nm	300m 1000m 600m	
	DMD specification The minimum EMB can be ensured under the condition of : 1. The transmission wavelength λ be in the range:840 ≤λ≤860 2. The encircled flux at radius 4.5 um ≤ 30%, and encircled flux at radius 19 um ≥ 86%. (Ref:TIA/EIA-492 AAAC) Sliding mask DMD is defined as the DMD mask width over any 6 um interval between 7 and 19 um offset position.		Inner module (5-18μm radius) 1.≤0.33ps/m 2.≤0.27ps/m 3.≤0.26ps/m 4.≤0.25ps/m 5.≤0.24ps/m 6.≤0.23ps/m DMD sliding mask ≤0.25ps/m	Outer module (0-23μm radius) 1.≤0.33ps/m 2.≤0.35ps/m 3.≤0.40ps/m 4.≤0.50ps/m 5.≤0.60ps/m 6.≤0.70ps/m
	Numerical aperture		0.200±0.015	
	Group index of refraction	@850 nm @1300 nm	1.482 1.477	
	Zero Dispersion Wavelength		1295—1320 nm	
	Zero Dispersion Slope	@ 1295-1300 nm @ 1300-1320 nm	≤0.001(λ0-1190) ps/nm2·km ≤0.11 ps/nm2·km	
Backscatter Characteristics	Step(mean of bidirectional measurement)		≤0.10 dB	
	Irregularities over fibre length and point discontinuity		≤0.10 dB	
	Attenuation uniformity		≤0.10 dB/km	
Geometric Specifications	Core diameter		50 ±2.5μm	
	Core non-circularity		≤5.0%	
	Cladding diameter		125 ± 1.0μm	
	Cladding Non-Circularity		≤1.0%	
	Coating Diameter		245 ± 7μm	
	Coating-Cladding concentricity error		≤ 12.0 μm	
	Coating non-circularity		≤ 6.0%	
	Core-cladding concentricity error		≤ 1.0um	
	Delivery length		Up to 8.8km/reel	
Environmental Specifications	Temperature dependence Induced Attenuation (-60 to +85)	@ 850 nm, 1300 nm	≤ 0.10 dB/km	
	Temperature-humidity cycling Induced Attenuation (-10 to +85, 85%RH)	@ 850 nm, 1300 nm	≤ 0.10 dB/km	
	Water soak dependence Induced Attenuation 23, for 30 days)	@ 850 nm, 1300 nm	≤ 0.10 dB/km	
	Dump heat dependence Induced Attenuation (85 and 85%RH for 30 days)	@ 850 nm, 1300 nm	≤ 0.10 dB/km	
	Dry heat aging (85)	@ 850 nm, 1300 nm	≤ 0.10 dB/km	
Mechanical Specification	Proof Test off line		≥ 9.0N (100Kps, ≥ 1.0 %)	
	Macro-bend induced attenuation 100 turns around a mandrel of 60 mm diameter	@ 850 nm, 1300 nm	≤ 0.50 dB	
	Coating Strip Force		Typical average force: 1.5N Peak force ≥ 1.3N ≤8.9N	
	Dynamic stress corrosion susceptibility parameter (Nd)		≥ 27	