



50μm, OM4 FIBER

DESCRIPTION	VALUE	UNIT
● Optical characteristics		
Attenuation	850 nm	<2.3
	1300 nm	<0.6
Overfilled Modal Bandwidth	850 nm	[MHz · km]
	1300 nm	>3500
Effective Modal Bandwidth	850 nm	>3500
Application support distance on		>4700
10 Gb / s Ethernet link distance SX (850 nm)		<500
1 Gb / s Ethernet link distance SX (850 nm)		<1000
1 Gb / s Ethernet link distance LX (1300 nm)		<1100
40 & 100 Gb / s Ethernet link distance SX (850 nm)		<150
Numerical Aperture (NA)		0.200±0.015
Group index of refraction (typical)	850 nm	1.482
	1300 nm	1.477
Zero dispersion wavelength	>1295	<1320
Zero dispersion slope	1295-1300 nm	<0.001
	1300-1320 nm	<0.11
● Backscatter characteristics		
Step (Mean of bidirectional measurement)	1300 nm	0.200±0.015
Irregularities over fibre length and point discontinuity		<0.10
Difference backscatter coefficient (bidirectional measurement)		<0.08



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DESCRIPTION	VALUE	UNIT
● Geometrical characteristics		
Core diameter	50±2.5	[μ m]
Core non-circularity	<5.0	[%]
Cladding diameter	125.0±1.0	[μ m]
Cladding non-circularity	<1.0	[%]
Coating diameter	245±7	[μ m]
Coating / cladding concentricity error	<12.0	[μ m]
Coating non-circularity	<6.0	[%]
Core / cladding concentricity error	850 nm, 1300 nm	<1.0
● Environmental characteristics		
Temperature dependence	-60°C to +85°C	
Induced attenuation	<0.10	[dB / km]
Temperature-humidity cycling	-10°C to +85°C, 90% R.H.	
Induced attenuation	<0.10	[dB / km]
Damp heat dependence	85°C, 85% R.H., 30 days	
Induced attenuation	<0.10	[dB / km]
Watersoak dependence	20°C for 30 days	
Induced attenuation	<0.10	[dB / km]
● Mechanical characteristics	off line	
Proof test	>9.0	[N]
	>1.0	[%]
	>100	[kpsi]
Bending Dependence	850 nm, 1300 nm	
Induced Attenuation	100 turns, 75 mm diameter	<0.50
Coating strip force	Typical average force	1.5
	Peak force	>1.3 <8.9
Dynamic stress corrosion susceptibility parameter (n ^d , Typical)		>27