Single Mode Indoor Fiber Optic Cable

Indoor fiber optic cables are tight buffer design, usually it consists of aramid yarns distributed over-which is used to strength the cable structure and to resist high tension, FR-LSZH outer jacket makes it perfect for indoor applications.

Features

- Conformance to ANSI/TIA-568.3-D, ITU-T G652.D, Telcordia GR-20, IEC 60794-2
- Flame retardant LSZH jacket
- Excellent consistence performance
- Covered under 3C3® Performance Warranty

Constructional Specifications

Fiber Count	:	6/12/24
Tight Buffer Material	:	Flame retardant LSZH
Tight Buffer diameter	:	850±50µm
Strength Member	:	Aramid Yarns
Outer Sheath	:	Flame retardant LSZH
Sheath Color	:	Yellow
Nominal Cable diameter	:	6.5±0.5mm
Nominal Cable weight	:	40kg/km ±10%
Drum Length	:	2 Km ± 5 %

Mechanical Specifications

Specification		Value	Test method
Tensile Strength (Short)	:	660N	IEC 60794-1-2
Tensile Strength (Long)	:	500N	IEC 60794-1-2
Bend Radius	:	10D	IEC 60794-1-2
Kink Radius	:	5D	IEC 60794-1-2
Crush Resistance (Short)	:	500N /100mm	IEC 60794-1-2
Crush Resistance (Long)	:	100N /100mm	IEC 60794-1-2
Impact Resistance	:	1Nm	IEC 60794-1-2
Torsion Strength	:	±180 degree	IEC 60794-1-2

Kindly note that any specifications including design, measurements, size, dimension, weight and material specifications mentioned for different products across any technical or commercial document are subject to change by 3C3 India Pvt. Ltd., without any notice.

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Optical Specifications

Specification		Value	Test method
Fiber Type	:	9/125µm	
Fiber Coating Color	:	Uncolored	
Core Non-circularity	:	≤ 6%	IEC/EN 60793-1-20
Cladding Diameter	:	125.0±0.7µm	IEC/EN 60793-1-20
Core/cladding Concentricity Error	:	≤ 0.6µm	IEC/EN 60793-1-20
Cladding Non-circularity	:	≤ 1.0%	IEC/EN 60793-1-20
Coating Diameter	:	242±7µm	IEC/EN 60793-1-21
Coating/cladding Concentricity Error	:	≤ 12µm	IEC/EN 60793-1-20
Attenuation Co-efficient	:	1310nm≤0.35dB/km	IEC/EN 60793-1-40
	:	1550nm≤0.21dB/km	IEC/EN 60793-1-40
Zero Dispersion Slope	:	≤ 0.092ps/(nm2·km)	IEC/EN 60793-1-42
Zero Dispersion Wavelength	:	1300~1324nm	IEC/EN 60793-1-40
Polarization Mode dispersion	:	≤ 0.20 ps/√km	IEC/EN 60794-1-3
Mode Field Diameter	:	1310nm : 9.0±0.4µm	IEC/EN 60793-1-45
Cut-off wavelength (λc)	:	1170~1330nm	IEC/EN 60793-1-44
Chromatic dispersion	:	1288~1339nm≤3.4ps(nm·km)	IEC/EN 60793-1-42
		1550nm≤18 ps/(nm·km)	IEC/EN 60793-1-42
		1625nm≤22 ps/(nm·km)	IEC/EN 60793-1-42

Environmental Specifications

Installation Temperature	:	-10^0C~$+60^0$C
Storage Temperature	:	-40^0C~$+70^0$C
Operating Temperature	:	-40^0C~$+70^0$C

Regulatory Compliances/Certifications

- ROHS Certified

Ordering Information

Product Code	Description
51005-0XXX	High Link Fiber Optic, Tight Buffered Indoor Cable, FR-LSZH, OS2 XXX – 006/ 012/ 024 (Cores)

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