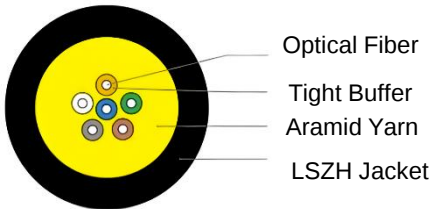


CFC9IOxxTBA2LSBK | Fiber Optic Cable

IN/OUT TB SM G.657A2 OFNR LSZH



*Images are for representative purposes only

Product Description:

CTS Fiber solution offers compact, bend insensitive optical cables designed to withstand harsh environmental conditions. The high tensile strength and flexible cables are designed to be versatile, allowing them to be installed both indoors and outdoors.

Applications:

Campus Networks, Metropolitan Area Networks (MAN), Fiber-to-the-Building (FTTB) deployments, Outdoor Surveillance systems, and Industrial environments

Standards:

IEC 60793-1; IEC 60793-2
IEC 60794-2; ITU-T G.650;
ITU-T G.652; ITU-T G.657
EIA/TIA 598; IEC 61034-2
IEC 60754-1; IEC 60754-2

Features & Benefits:

Tight Buffered Fibers colour coded
Aramid yarns strength member
Black LSZH Outer Sheath

Fiber Cable Construction:

Fiber Type	Single Mode OS2 compliant to ITU-T G.657A2
Fiber Count	02 – 24 Fibers
Tight Buffer colour coding	1-12 - Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Rose, Turquoise
	13-24 – Blue*, Orange*, Green*, Brown*, Grey*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Turquoise*
Outer jacket	LSZH
Jacket Colour	Black
Operation Temperature	-20 deg C to + 60 deg C
Installation Temperature	0 deg C to + 40 deg C
Transport and storage temperature	-30 deg C to + 70 deg C

**with black stripe*



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Optical Specifications:

Cladding Diameter	125 ± 0.7 µm		
Cladding Non-circularity	≤1.0%		
Core/clad Concentricity Error	≤0.5 µm		
Attenuation @1310 nm	≤0.40 dB/km		
Attenuation @1550 nm	≤0.30 dB/km		
Zero Dispersion Wavelength	1300 ~ 1324 nm		
Zero Dispersion Slope	≤ 0.092 ps/nm ² ·km		
Mode Field Diameter @1310 nm	(8.6-9.2) ± 0.4µm		
Macro Bending Loss	10 turns; Φ30 mm	@1550 nm	≤ 0.03 dB
		@1625 nm	≤ 0.1 dB
	1 turns; Φ20 mm	@1550 nm	≤ 0.1 dB
		@1625 nm	≤ 0.2 dB
	1 turns; Φ15 mm	@1550 nm	≤ 0.5 dB
		@1625 nm	≤ 1.0 dB

Mechanical Specifications:

Fiber Count	2	4	6	8	12	24
Cable Outer Dia (± 0.3) mm	4.8	5.2	5.6	5.8	6.2	8.1
Cable weight (± 15%) kg/km	21	26	30	32	38	58
Max. tensile load (short term)	800 N	800 N	900 N	900 N	1000 N	1300 N
Max. tensile load (long term)	400 N	400 N	450 N	450 N	500 N	650 N
Crush resistance	1000 N/10cm					
Proof Stress	≥ 0.69 Gpa					
Minimal installation bending radius	20 x Outer Dia					
Minimal operation bending radius	10 x Outer Dia					
Packaging 1km/reel plywood or wooden drum Dimension D x d x B	2 Fiber			55 x 40 x 43 cm		
	4/6/8/12 Fiber			60 x 40 x 43 cm		
	24 Fiber			70 x 40 x 43 cm		



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Testing Standards:

Mode field diameter	IEC 60793-1-45
Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Tension loading test	IEC 60794-1-2 E1
Crush / Compression test	IEC 60794-1-2 E3
Impact Resistance test	IEC 60794-1-2 E4
Repeated Bending test	IEC 60794-1-2 E6
Bend test	IEC 60794-1-2 E11A
Temperature Cycling test	IEC 60794-1-2 F1

Ordering Information:

CFC9IO02TBA2LSBK	CTS 2 Core Fiber Optic Indoor/Outdoor Tight Buffered Cable Single Mode OS2 G.657A2 OFNR LSZH Black
CFC9IO04TBA2LSBK	CTS 4 Core Fiber Optic Indoor/Outdoor Tight Buffered Cable Single Mode OS2 G.657A2 OFNR LSZH Black
CFC9IO06TBA2LSBK	CTS 6 Core Fiber Optic Indoor/Outdoor Tight Buffered Cable Single Mode OS2 G.657A2 OFNR LSZH Black
CFC9IO08TBA2LSBK	CTS 8 Core Fiber Optic Indoor/Outdoor Tight Buffered Cable Single Mode OS2 G.657A2 OFNR LSZH Black
CFC9IO12TBA2LSBK	CTS 12 Core Fiber Optic Indoor/Outdoor Tight Buffered Cable Single Mode OS2 G.657A2 OFNR LSZH Black
CFC9IO24TBA2LSBK	CTS 24 Core Fiber Optic Indoor/Outdoor Tight Buffered Cable Single Mode OS2 G.657A2 OFNR LSZH Black

Please consult CTS team for other colour options

