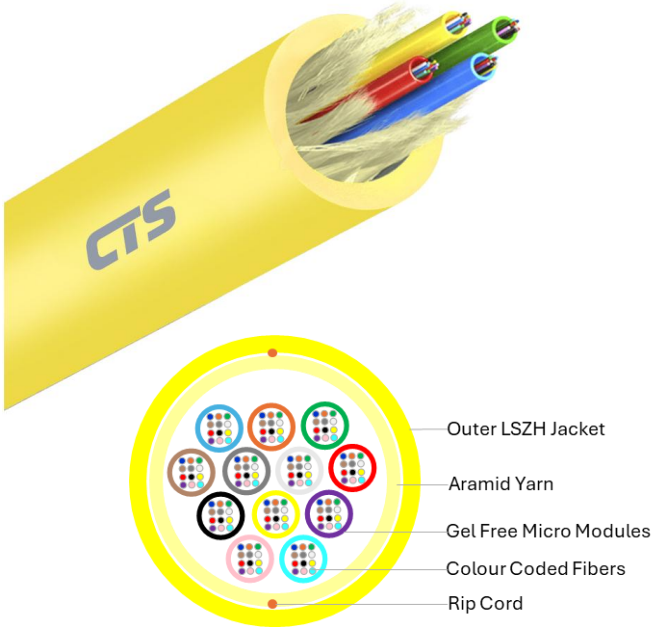


CFC9INxxMMA2LSYL | Fiber Optic Cable

Indoor Micro Module SM G.657A2 LSZH



*Images are for representative purposes only

Product Description:

CTS Micro Module fiber optic cable is designed for indoor distribution applications requiring high flexibility and bend-insensitivity. It features a Low Smoke Zero Halogen sheath and aramid yarn strength members, making it ideal for installations in riser spaces and other confined areas.

Applications:

Fiber-to-the-Home (FTTH) deployments
Telecommunications and Datacenters

Standards:

IEC 60793-1
IEC 60793-2
IEC 60794-2
ITU-T G.650
ITU-T G.657

Features & Benefits:

Micro Module Design
Aramid Yarn Strength Members
Yellow LSZH Outer Sheath

Fiber Cable Construction:

Fiber Type	Single Mode OS2 compliant to ITU-T G.657A2			
Fiber Count	48	72	96	144
Micro Module Count	4	6	8	12
Fibers per Micro Module	12			
Fiber Colour	1-12 - Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Rose, Turquoise			
Micro Module Tube Colour	1-12 - Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Rose, Turquoise			
Outer jacket	LSZH			
Jacket Colour	Yellow			
Operation Temperature	-30 deg C to + 70 deg C			
Installation Temperature	-5 deg C to + 45 deg C			
Transport and storage temperature	-40 deg C to + 70 deg C			

Version 01-02



CFC9INxxMMA2LSYL | Fiber Optic Cable

Indoor Micro Module SM G.657A2 LSZH



Optical Specifications:

Cladding Diameter	125 ± 0.7 µm		
Coating Diameter (uncoloured)	245 ± 10.0 µm		
Cladding Non-circularity	≤ 0.7%		
Core/clad Concentricity Error	≤ 0.5 µm		
Coating Non-circularity	≤ 6.0%		
Clad/Coating Concentricity Error	≤ 12.0 µm		
Attenuation @1310 nm	≤ 0.36 dB/km		
Attenuation @1550 nm	≤ 0.23 dB/km		
Attenuation @1625 nm	≤ 0.26 dB/km		
Zero Dispersion Wavelength	1300 ~ 1324 nm		
Zero Dispersion Slope	≤ 0.092 ps/nm ² ·km		
Mode Field Diameter @1310 nm	8.6 ± 0.4 µm		
Cable Cutoff Wavelength (λ _{cc})	≤ 1260 nm		
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	48	72	96	144
Cable Outer Dia (± 0.5) mm	7.0	7.7	8.2	9.6
Cable weight (± 15%) kg/km	37	45	51	70
Tensile Load	500 N	500 N	500 N	1000 N
Crush resistance	100 N/10cm			
Proof Stress	≥ 0.69 Gpa			
Minimal installation bending radius	20 x Outer Dia			
Minimal operation bending radius	10 x Outer Dia			
Packaging Length	2km/reel plywood or wooden drum			



CFC9INxxMMA2LSYL | Fiber Optic Cable

Indoor Micro Module SM G.657A2 LSZH



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
Kink test	IEC 60794-1-2 E0
Torsion / Twist test	IEC 60794-1-2 E7
Bend test	IEC 60794-1-2 E11
Temperature Cycling test	IEC 60794-1-2 F1

Ordering Information:

CFC9IN48MMA2LSYL	CTS 48 Core Fiber Optic Indoor Micro Module Cable Single Mode OS2 G.657A2 LSZH Yellow
CFC9IN72MMA2LSYL	CTS 72 Core Fiber Optic Indoor Micro Module Cable Single Mode OS2 G.657A2 LSZH Yellow
CFC9IN96MMA2LSYL	CTS 96 Core Fiber Optic Indoor Micro Module Cable Single Mode OS2 G.657A2 LSZH Yellow
CFC9IN144MMA2LSYL	CTS 144 Core Fiber Optic Indoor Micro Module Cable Single Mode OS2 G.657A2 LSZH Yellow

Please consult CTS team for other colour options

