

Loose Tube Armored Direct Burial Fiber Optic Cable

Application

Double sheathed armored loose tube fiber optical cable which is suitable for installation voice, data & communication backbones in ducts, underground conduits & direct buried.

Features

- ▶ **Fiber count: 4 to 288**
- ▶ **The tube is filled with a water-resistant jell**
- ▶ **Double sheet enhances the cable's side pressure resistance and moisture proof property.**
- ▶ **Proper design and precise excess length control offer excellent mechanical and environmental properties to cable.**
- ▶ **RoSH Compliant**

Physical Specifications

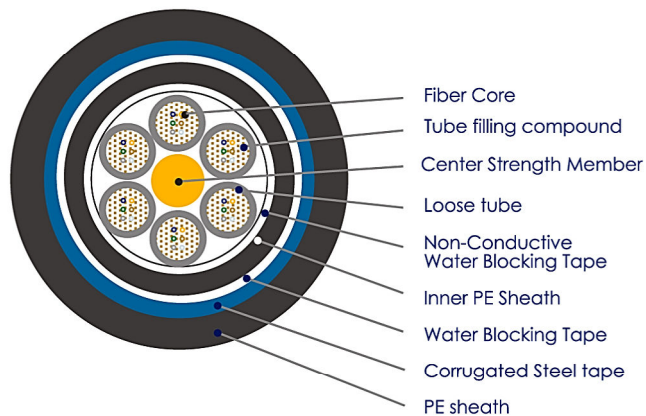
No. of Fiber Cores	6 - 24	36 - 72	96 - 144
No. of Fiber in Single Tube	4 - 12	6 -12	12
Tube Outer Diameter Nominal	2.5 mm		
Material Type & Coverage Type	PBTP / Multi Loose Tube Jell Filled Water Blocking Tape		
Armouring Material Type	Corrugated (PSP) Steel Tape		
Jacket Color & Material Type	Black PE		
No. of Fiber Cores	6 - 72	96	144
Apx. Nominal Outer Diameter	14.5 mm	16.5 mm	19.5 mm
Min. Bend Radius Installation	215 mm	240 mm	290 mm
Min. Bend Radius Operation	145 mm	160 mm	195 mm
Max. Tensile Strength, Short-Term	2700 N (600 lbf)		
Max. Tensile Strength, Long-Term	890 N (200 lbf)		



LOOSE TUBE ARMORED DIRECT BURIAL FIBER OPTIC CABLE

Core Identification

1	Blue/	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Grey	11	Rose
6	White	12	Aqua



Temperature Range

During Installation	-30°C to 70°C
During Operating	-40°C to 70°C

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Optical Specification				
	Multimode 50/125 µm OM2 Premium 300	Multimode 50/125 µm OM3 Premium 300	Multimode 50/125 µm OM4 Premium 550	Single-mode 9/125 µm OS2
High Performance EMB* bandwidth at 850 nm	950 MHz km	2000 MHz km	4700 MHz km	
Legacy Performance EMB** bandwidth at 850 nm	700 MHz km	1500 MHz km	3500 MHz km	
Legacy Performance EMB** bandwidth at 1300 nm	500 MHz km	500 MHz km	500 MHz km	
Dimensional Specifications				
Cladding Diameter	125.0 ± 1.0 µm			125.0 ± 0.7 µm
Core-Clad Concentricity	≤ 1.5 µm			≤ 0.5 µm
Cladding Non-Circularity	≤ 1.0%			≤ 0.7%
Core Non-Circularity	≤ 5%			N/A
Mode field diameter 1310 nm	N/A			9.2 + 0.4 µm
Mode field diameter 1550 nm N	N/A			10.4 + 0.5 µm
Typical attenuation	2.5/0.7 dB/km (850 nm/1300 nm)			0.36/0.22 dB/km (1310 nm/1550 nm)
Induced attenuation, 7.5 mm radius, 250 µm coated fibre at 850 nm	< 0.2 dB			N/A
Induced attenuation, 10 mm radius, 250 µm coated fibre at 1550 nm	N/A			< 0.50 dB
Standard Compliance				
ISO/IEC 11801	Type OM2	Type OM3	Type OM4	Type OS2
IEC 60793-2-10	Type A1a.1	Type A1a.2	Type A1a.3	Type B1.3
TIA/EIA	492AAAB-A	492AAAC-B	492AAAD	492AAAC-A
ITU	ITU G651.1	ITU G651.1	ITU G651.1	ITU-T G. 652, Table D & G.657, Table A
Environmental Specifications				
Temperature Dependence	-60°C to + 85°C*			
Temperature Humidity Cycling	-10°C to + 85°C* up to 98% RH			
Water Immersion	23° ± 2°C			
Dry Heat Soak	85° ± 2°C*			
Damp Heat	85°C at 85% RH			

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Order Information

Fiber Cores	Loose Tube Armored Direct Fiber Optic Burial Cable				Standard Length
	Multi-Mode 50 /125 µm (OM2)	Multi-Mode 50 /125 µm (OM3)	Multi-Mode 50 /125 µm (OM4)	Single-Mode 9/125 µm (OS2)	
6 Core	CS-FOBAM2-6	CS-FOBAM3-6	CS-FOBAM4-6	CS-FOBAS2-6	2000/4000 M/Reel
12 Core	CS-FOBAM2-12	CS-FOBAM3-12	CS-FOBAM4-12	CS-FOBAS2-12	2000/4000 M/Reel
24 Core	CS-FOBAM2-24	CS-FOBAM3-24	CS-FOBAM4-24	CS-FOBAS2-24	2000/4000 M/Reel
48 Core	CS-FOBAM2-48	CS-FOBAM3-48	CS-FOBAM4-48	CS-FOBAS2-48	2000/4000 M/Reel
96 Core	CS-FOBAM2-96	CS-FOBAM3-96	CS-FOBAM4-96	CS-FOBAS2-96	2000/4000 M/Reel
144 Core	CS-FOBAM2-144	CS-FOBAM3-144	CS-FOBAM4-144	CS-FODBAS2-144	2000/4000 M/Reel