

Central Tube Aerial/Duct/Direct Burial Fiber Optic Cable

Application

Central loose tube optic fiber cable which is suitable for outside plant and installation between various metropolitan network, and access network and especially suitable for the situation where high density fibers are required.

Features

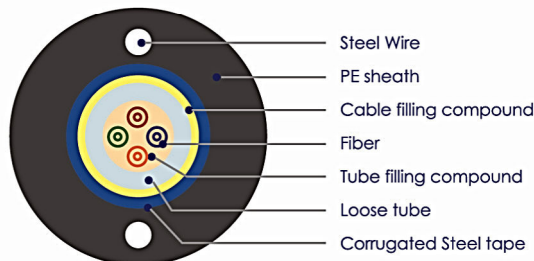
- ▶ **Fiber count: 2 to 24**
- ▶ **The tube is filled with a water-resistant jell**
- ▶ **Compact design cable is providing long-term reliability in aerial, duct, direct-buried and anti-rodent applications.**
- ▶ **Two steel messenger wires are placed at the two sides of the steel tape in the cable give it good tensile strength and protection.**
- ▶ **RoSH Compliant**

Physical Specifications

No. of Fiber Cores	04 to 24
No. of Fiber in Single Tube	04 to 24
Tube Outer Diameter Nominal	4 mm
Material Type & Coverage Type	PBTP / Single Loose Tube Jell Filled, Water Blocking Tape, (PSP) Steel Tape & Two Sides Steel wire
Armouring Material Type	Corrugated (PSP) Steel Tape
Jacket Color & Material Type	Black PE
Apx. Nominal Outer Diameter / Weight	04 - 24 Core (11 mm / 120 kg/km)
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Min. Bend Radius Installation	182 mm (7.1 in)
Min. Bend Radius Operation	121 mm (4.8 in)

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



CENTRAL TUBE AERIAL/DUCT/DIRECT BURIAL FIBER OPTIC CABLE

Central Tube Aerial/Duct/Direct Burial Fiber Optic Cable

Optical Specification				
	Multimode 50/125 µm OM2 Pretium 300	Multimode 50/125 µm OM3 Pretium 300	Multimode 50/125 µm OM4 Pretium 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			

CENTRAL TUBE AERIAL/DUCT/DIRECT BURIAL FIBER OPTIC CABLE

Order Information

Fiber Cores	Central Tube Aerial/Duct/Direct Burial Fiber Optic 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)	
4 Core	CS-FOSODM2-04	CS-FOSODM3-04	CS-FOSODM4-04	CS-FOSODS2-04	2000/4000 M/Reel
6 Core	CS-FOSODM2-06	CS-FOSODM3-06	CS-FOSODM4-06	CS-FOSODS2-06	2000/4000 M/Reel
8 Core	CS-FOSODM2-08	CS-FOSODM3-08	CS-FOSODM4-08	CS-FOSODS2-08	2000/4000 M/Reel
12 Core	CS-FOSODM2-12	CS-FOSODM3-12	CS-FOSODM4-12	CS-FOSODS2-12	2000/4000 M/Reel
16 Core	CS-FOSODM2-16	CS-FOSODM3-16	CS-FOSODM4-16	CS-FOSODS2-16	2000/4000 M/Reel
24 Core	CS-FOSODM2-24	CS-FOSODM3-24	CS-FOSODM4-24	CS-FOSODS2-24	2000/4000 M/Reel