

# Loose Tube Armored Duct Fiber Optic Cable

## Application

Loose tube duct armored optic fiber cable which is suitable for installation voice, data & communication backbones in ducts, underground conduits.

## Features

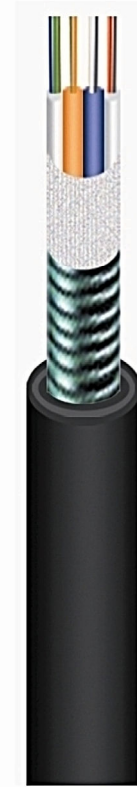
- ▶ **Fiber count: 2 to 288**
- ▶ **The tube is filled with a water-resistant jell**
- ▶ **Corrugated steel tape armor ensures nice moisture proof and side pressure resisting.**
- ▶ **Compact design cable is providing long-term reliability in duct and anti-rodent applications.**
- ▶ **Proper design and precise excess length control offer excellent mechanical and environmental properties to cable.**
- ▶ **RoSH Compliant**

## Physical Specifications

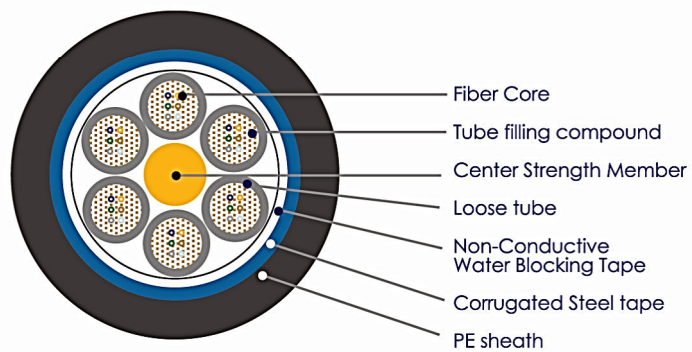
No. of Fiber Cores	6 - 24	36 - 72	96 - 144
No. of Fiber in Single Tube	4 - 12	6 - 12	12
Tube Outer Diameter Nominal	2.5 mm		
Material Type & Coverage Type	PBTP / Multi Loose Tube Jell Filled Water Blocking Tape		
Armouring Material Type	Corrugated (PSP) Steel Tape		
Jacket Color & Material Type	Black PE		
Apx. Nominal Outer Diameter / Weight	6 - 48 Core (13 mm / 135 kh/km) 72 - 96 Core (14.5 mm / 180 kg/km)		
Max. Tensile Strength, Short-Term	2700 N (600 lbf)		
Max. Tensile Strength, Long-Term	890 N (200 lbf)		
Min. Bend Radius Installation	207 mm (7.1 in)		
Min. Bend Radius Operation	138 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



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## Temperature Range

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

## Loose Tube Armored Duct 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			

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### Order Information

Fiber Cores	Loose Tube Armored Duct 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)	
6 Core	CS-FODAM2-6	CS-FODAM3-6	CS-FODAM4-6	CS-FODAS2-6	2000/4000 M/Reel
12 Core	CS-FODAM2-12	CS-FODAM3-12	CS-FODAM4-12	CS-FODAS2-12	2000/4000 M/Reel
24 Core	CS-FODAM2-24	CS-FODAM3-24	CS-FODAM4-24	CS-FODAS2-24	2000/4000 M/Reel
48 Core	CS-FODAM2-48	CS-FODAM3-48	CS-FODAM4-48	CS-FODAS2-48	2000/4000 M/Reel
96 Core	CS-FODAM2-96	CS-FODAM3-96	CS-FODAM4-96	CS-FODAS2-96	2000/4000 M/Reel
144 Core	CS-FODAM2-144	CS-FODAM3-144	CS-FODAM4-144	CS-FODAS2-144	2000/4000 M/Reel