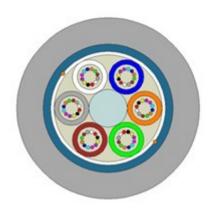
Opti-Core™ Gel-Filled Armored Stranded Tube Outside Plant Cable – Asia Pacific



technical information

Panduit™ Armored Stranded Tube Outside Plant Fiber Optic Cable offers gel-filled water-blocking technology, UV resistance, and high density to provide standards compliance and flexibility for outdoor use. Opti-Core™ Armored OSP Cable has a single outer jacket and corrugated steel armor to provide superior crush resistance for direct burial applications. It also meets or exceeds the performance requirements of Telcordia GR-20, Issue 2 and ICEA 640 to withstand harsh outdoor environmental demands. Opti-Core™ Armored OSP Cable is available in singlemode (meets OS2 ITU-T G.652.D standards) in fiber counts from 48 to 144 fibers as a "stranded loose tube" design. All Opti-Core™ Fiber Optic Cable is RoHS compliant.





applications

Well suited for duct or direct burial applications.

standards

IEC/EN 60794-3

construction

Central strength member	48-fibers: 2.5mm nominal				
	72-fibers: 2.7mm nominal				
	96-fibers:	2.5mm FRP* r	2.5mm FRP* rod built up with sheath to be 4.4mm		
	144-fibers: 2.5mm FRP* rod built up with sheath to be 7.6mm				
Loose tube	48-fibers: 2.2mm nominal				
	72, 96, and 144-fibers: 2.5mm nominal				
	1 Blue	4 Brown	7 Red	10 Violet	
Fiber colour code	2 Orange	5 Grey	8 Black	11 Pink	
	3 Green	6 White	9 Yellow	12 Aqua	
Water-blocking	Cable jelly				
Wrapping	Polyester tape				
Outer sheath thickness	PE 1.7mm nominal				

^{*}FRP = Fiberglass Reinforced Plastic

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mechanical properties

Tensile strength (installation)	2700 N		
Tensile strength (long-term)	1700 N		
Compressive strength (crush)	220 N/cm		
Impact	4.4 Nm, 3 impacts, r = 300mm		
Torsion	±180°, 10 cycles		
Kink	R = 10 × D (cable diameter)		
Temperature range	Shipping/Storage: -40°C to +70°C		
	Installation: -10°C to +60°C		
	Operation: -30°C to +70°C		
Water penetration	No water leakage after 24 hours		

physical properties

Fiber Count	Cable Diameter (mm)	Installation Bend Radius (mm)	Long-Term Bend Radius (mm)	Cable Weight (kg/km)	Number of Sub-Unit Tubes + Filler Tubes
48	12.0 nominal	256	120	148	6
72	12.8 nominal	290	128	164	6
96	14.5 nominal	354	145	207	8
144	17.7 nominal	361	177	292	12

optical properties

Maximum Attenuation of Cabled Fiber

OS2 Singlemode (ITU-T G.652.D) 0.4dB/km @ 1310nm, 0.3dB/km @ 1550nm

ordering information

Example: FLWN948 Fiber, Gel-Filled Armored Outside Plant Cable, Non Rated, OS2, 48-Fiber

 Character
 1
 2
 3
 4
 5
 6
 7

 Example
 F
 L
 W
 N
 9
 4
 8

1 and 2 - Fiber Product

FL = Fiber Cable, APAC

3 - Cable Construction

W = Gel-Filled Armored Outside Plant Cable 4 - Flame Rating

N = Non Rated

5 - Fiber Type

 $9 = OS2 9/125 \mu m$

6 and 7 - Fiber Count

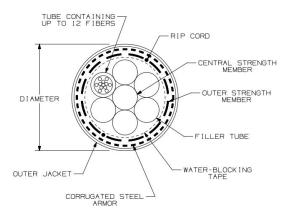
48 = 48-Fiber 72 = 72-Fiber

96 = 96-Fiber

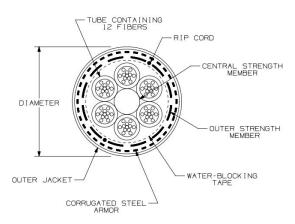
1A = 144-Fiber

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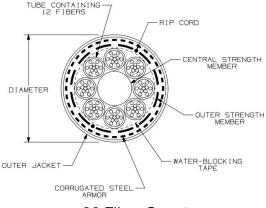
engineer drawings



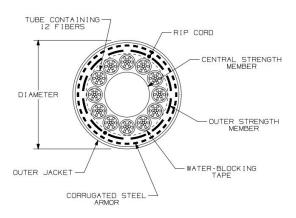
48 Fiber Count



72 Fiber Count



96 Fiber Count



144 Fiber Count

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