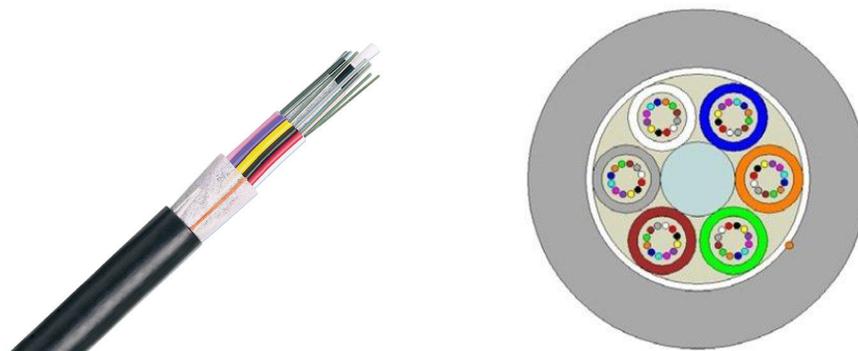


technical information

Panduit™ Opti-Core™ Gel-Filled All-Dielectric Outside Plant (OSP) Cable offers gel-filled water-blocking technology, UV resistance, and high-density to provide standards compliance and flexibility for outdoor use. They can be used for aerial and duct applications and feature a non-metallic construction that eliminates the need to ground or bond. 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™ All-Dielectric OSP Cable is available in singlemode (meets OS2 ITU-T G.652.D standards) OM3 and OM4 multimode fiber types. Available in fiber counts from 4 to 24 fibers as a “stranded loose tube” design. All Opti-Core™ Fiber Optic Cable is RoHS compliant.



application

Aerial and duct applications

standards

IEC/EN 60794-3

construction

Central strength member - fiberglass reinforced plastic	4-24 fibers:	2.5mm nominal		
Loose tube	4-24 fibers:	2.2mm nominal		
Fiber color code	1 Blue	4 Brown	7 Red	10 Violet
	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 ripcord under the sheath/1.9mm nominal			
Outer sheath color	Black			

Opti-Core™ Gel-Filled All Dielectric Outside Plant Cable - Asia Pacific

mechanical properties

Tensile strength (Installation)	2700 N
Tensile strength (Long-term)	1800 N
Compressive strength (Crush)	1100 N/100mm
Impact	4.4 Nm, 3 impacts, r = 300mm
Torsion	±180°, 10 cycles
Kink	R = 10 x O.D. (cable outside 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 Outside Diameter (O.D.) Inches (mm)	Long-Term Bend Radius (mm)	Installation Bend Radius (mm)	Cable Weight (kg/km)
4	10.9 nominal	109	218	95
6	10.9 nominal	109	218	95
8	10.9 nominal	109	218	95
12	10.9 nominal	109	218	95
24	10.9 nominal	109	218	95

ordering information

Example: FLTN912 Fiber, Gel-Filled All Dielectric Outside Plant Cable, Non Rated, OS2, 12-Fiber

Character	1	2	3	4	5	6	7
Example	F	L	T	N	9	1	2

1 and 2 – Fiber Product, Region
FL= Fiber Cable, Asia Pacific

3 – Cable Construction
T = Gel-Filled All Dielectric
Outside Plant Cable

4 – Flame Rating
N = Non rated

5 – Fiber Type
9 = OS2 9/125µm
X = OM3 10G 50/125µm
Z = OM4 10G 50/125µm

6 and 7 – Fiber Count
04 = 4-Fiber (OS2 only)
06 = 6-Fiber
08 = 8-Fiber (OS2 only)
12 = 12-Fiber
24 = 24-Fiber

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