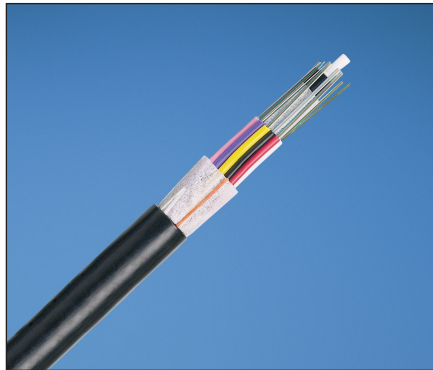


Opti-Core™ Gel-Filled All Dielectric Outside Plant Cable - Asia Pacific

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) OM1 multimode, and bend-insensitive OM2, OM3, and OM4 fiber types. Available in fiber counts from 2 to 144 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	2-24 fibers: 02.5mm nominal 36,48, 72 fibers: 02.7mm nominal 96 fibers: 02.7/4.4mm nominal 144 fibers: 02.7/7.6mm nominal												
Loose tube	2 to 24-fibers: 02.2mm nominal 36,48, 72-fibers: 02.5mm nominal 96, 144-fibers: 02.5mm nominal												
Fiber color code	<table border="1"> <tr> <td>1 Blue</td> <td>4 Brown</td> <td>7 Red</td> <td>10 Violet</td> </tr> <tr> <td>2 Orange</td> <td>5 Grey</td> <td>8 Black</td> <td>11 Pink</td> </tr> <tr> <td>3 Green</td> <td>6 White</td> <td>9 Yellow</td> <td>12 Aqua</td> </tr> </table>	1 Blue	4 Brown	7 Red	10 Violet	2 Orange	5 Grey	8 Black	11 Pink	3 Green	6 White	9 Yellow	12 Aqua
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												

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mechanical properties

Tensile strength (installation)	E1	2700N
Tensile strength (long-term)	E1	1800N
Compressive strength (crush)	E3	1100N/100mm
Impact	E4	4.4 Nm, 3 impacts, r = 300mm
Torsion	E7	±180°, 10 cycles
Kink	E10	R = 10 x D (cable diameter)
Temperature range	F1	Shipping/Storage: -40 °C to +70 °C Installation: -10 °C to +60 °C Operation: -30 °C to +70 °C
Water penetration	F5B	No water leakage after 24 hours

physical properties

Fiber Count	Cable O.D. Inches (mm)	Installation Bend Radius (mm)	Long-Term Bend Radius (mm)	Cable Weight (kg/km)
2	10.9 nominal	218	109	95
4	10.9 nominal	218	109	95
6	10.9 nominal	218	109	95
8	10.9 nominal	218	109	95
12	10.9 nominal	218	109	95
24	10.9 nominal	218	109	95
36	11.7 nominal	234	117	109
48	11.7 nominal	234	117	109
72	11.7 nominal	234	117	109
96	13.4 nominal	268	134	141
144	16.6 nominal	332	166	212

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ordering information

Example: FLTN512- Fiber, Gel-Filled All Dielectric Outside Plant Cable, Non Rated, OM2, 12-Fiber

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

1 and 2 – Fiber Product

FL = Fiber- OS2, OM1, OM2
OM3, OM4

3 – Cable Construction

T = Gel-Filled All Dielectric
Outside Plant Cable

4 – Flame Rating

N = Non rated

5 – Fiber Type

9 = OS2 9/125µm
6 = OM1 62.5/125µm
5 = OM2 50/125µm
X = OM3 10G 50/125µm
Z = OM4 10G 50/125µm

6 and 7 – Fiber Count

02 = 2-fiber
04 = 4-fiber
06 = 6-fiber
08 = 8-fiber
12 = 12-fiber
24 = 24-fiber
36 = 36-fiber
48 = 48-fiber
72 = 72-fiber
96 = 96-fiber
1A = 144-fiber

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For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

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