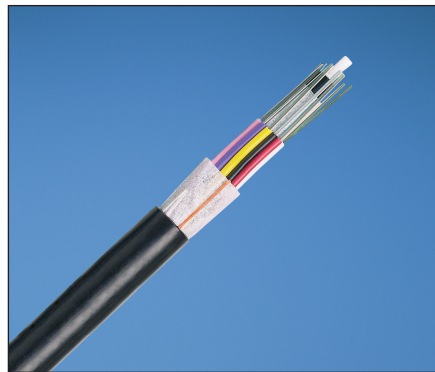


# Opti-Core™ Gel-Filled All Dielectric Outside Plant Cable - Asia Pacific

## 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

<b>Central strength member - fiberglass reinforced plastic</b>	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
<b>Loose tube</b>	2 to 24-fibers: 02.2mm nominal 36,48, 72-fibers: 02.5mm nominal 96, 144-fibers: 02.5mm nominal
<b>Fiber color code</b>	1 Blue      4 Brown      7 Red      10 Violet
	2 Orange    5 Grey      8 Black    11 Pink
	3 Green     6 White     9 Yellow   12 Aqua
<b>Water blocking</b>	Cable jelly
<b>Wrapping</b>	Polyester tape
<b>Outer sheath thickness</b>	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

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

## ordering information

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

<b>Character</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Example</b>	<b>F</b>	<b>L</b>	<b>T</b>	<b>N</b>	<b>5</b>	<b>1</b>	<b>2</b>

### 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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2/2014