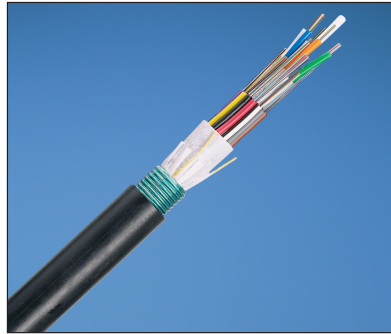


# Opti-Core™ Gel-Filled Single Armor Double Jacket Outside Plant Cable - EMEA

## technical information

Panduit™ Opti-Core™ Gel-Filled Single Armor Double Jacket (SADJ) Outside Plant (OSP) Cable offers gel-filled water-blocking technology, UV resistance, and high density to provide standards compliance and flexibility for outdoor use. It has a double jacket and corrugated steel armor to provide superior crush resistance for direct burial applications. Opti-Core™ SADJ OSP Cable is available in singlemode (meets OS2 ITU-T G.652.D standards) OM1 multimode, and bend-insensitive OM2, OM3 and OM4 fibre types. Available in fibre counts from 2 to 144 fibres as a “stranded loose tube” design. All Opti-Core™ Fibre Optic Cable is RoHS compliant.



## application

Well suited for installation in ducts and on trays. Excellent for direct burial with proper sand back filling. This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections; as well as fibre to the home drop and access connections. With MDPE sheathing, this cable is ideal for outdoor installation. Suitable for general conditions with risk of severe rodent attacks.

## standards

IEC 187 000	IEC 60794-3-12
IEC 60794-3	ISO 11801 2 <sup>nd</sup> edition
IEC 60794-3-10	EN 50 173-1

## construction

Central strength member	02.5mm FRP rod
Loose tube	02.3mm jelly filled loose tubes, with 2-12 fibres each
Water blocking	The core is water blocked using swellable tapes and tread
Wrapping	Polyester tape
Rip cord	1 rip cord
Inner sheath	Black MDPE, IEC 60811, IEC 60708
Rip cord	2 rip cords
Armouring	0.15mm corrugated steel tape
Outer Sheath thickness	1.5mm black MDPE, IEC 60811, IEC 60708

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## mechanical properties

<b>Tensile strength (installation)</b>	E1	1800N
<b>Tensile strength (long-term)</b>	E1	1200N
<b>Compressive strength (crush)</b>	E3	3000N
<b>Impact</b>	E4	20 Nm
<b>Torsion</b>	E7	5 cycles ±1 turn
<b>Kink</b>	E10	No kink at 12 x cable diameter
<b>Temperature range</b>	F1	Storage: -60 °C to +60 °C Installation: -30 °C to +60 °C Operation: -60 °C to +70 °C In the interval -60 °C to +70 °C there is no attenuation variation (<0.05 dB) for a single mode fibre, when tested according to the standard mentioned.
<b>Water penetration</b>	F5B	No water on free end

## physical properties

<b>Fibre Count</b>	<b>Cable O.D. (mm)</b>	<b>Long-Term Bend Radius (mm)</b>	<b>Installation Bend Radius (mm)</b>	<b>Cable Weight (kg/km)</b>
2	14.5	210	210	210
4	14.5	210	210	210
6	14.5	210	210	210
8	14.5	210	210	210
12	14.5	210	210	210
24	14.5	210	210	210
36	14.5	210	210	210
48	14.5	210	210	210
72	14.5	210	210	210
96	14.5	210	210	210
144	19.5	345	345	350

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## fibre colour code

Fibre colour code	1 Red	7 Brown	13 Yellow w/mark every 70mm	19 Yellow w/mark every 35mm
	2 Green	8 Violet	14 White w/mark every 70mm	20 White w/mark every 35mm
	3 Blue	9 Turquoise	15 Grey w/mark every 70mm	21 Grey w/mark every 35mm
	4 Yellow	10 Black	16 Turquoise w/mark every 70mm	22 Turquoise w/mark every 35mm
	5 White	11 Orange	17 Orange w/mark every 70mm	23 Orange w/mark every 35mm
	6 Grey	12 Pink	18 Pink w/mark every 70mm	24 Pink w/mark every 35mm

## ordering information

Example: FPQN512B - Fibre, Gel-Filled Single Armor Double Jacket Outside Plant Cable, Non Rated, OM2, 12-fibre

Character	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Example	<b>F</b>	<b>P</b>	<b>Q</b>	<b>N</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>B</b>

### 1 and 2 – Fibre Product

FP = Fibre- OM1, OM2, OS2  
FQ = Fibre- OM3, OM4,

### 3 – Cable Construction

Q = Gel-Filled single armor double jacket outside plant cable

### 4 – Flame Rating

N = Non-rated

### 5 – Fibre Type

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

### 6 and 7 – Fibre Count

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

### 8 - Cable Construction

B = Single Armor Double Jacket

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