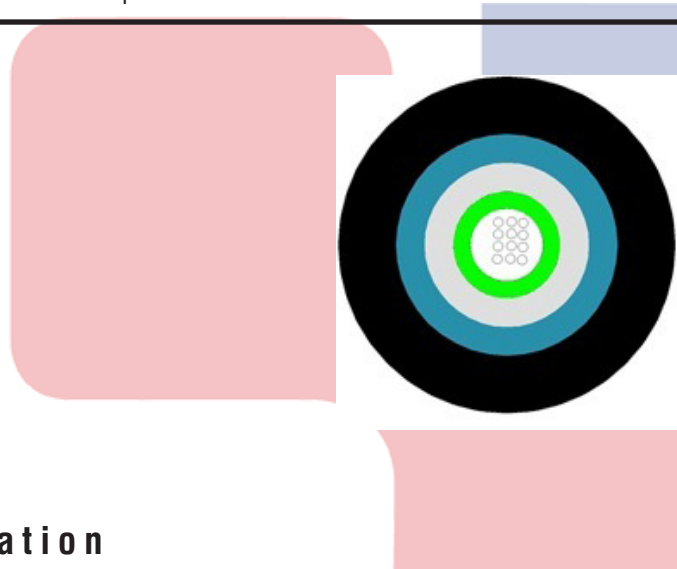


## technical information

Panduit™ Opti-Core™ Gel-Filled Single Armour Single Jacket (SASJ) Outside Plant (OSP) Cable offers gel-filled water-blocking technology, UV resistance, and high density to provide standards compliance and flexibility for outdoor use. Opti-Core™ SASJ OSP Cable has a single outer jacket and corrugated steel armour to provide superior crush resistance for direct burial applications. Opti-Core™ SASJ 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 24 fibres as a “central loose tube” design. 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. This cable is rodent proof.

## standards

ISO 11801 2<sup>nd</sup> edition  
EN 50173-1:2002  
IEC 60794-1

## construction

<b>Strength members</b>	E-glass yarn
<b>Loose tube</b>	02.8 mm jelly-filled loose tube with 2-16 fibres 03.5 mm jelly-filled loose tube with 24 fibres
<b>Water blocking</b>	The core is water blocked using swellable tape and yarn
<b>Armouring</b>	0.15 mm corrugated steel tape
<b>Outer sheath thickness</b>	1.5mm black MDPE sheath, IEC 60811, IEC 60708

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

## mechanical properties

Tensile strength (installation)	E1	1000N
Tensile strength (long-term)	E1	500N
Compressive strength (crush)	E3	2000/N
Impact	E4	10 Nm
Torsion	E7	5 cycles ±1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100mm
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

Fibre Count	Cable O.D. (mm)	Long-Term Bend Radius (mm)	Installation Bend Radius (mm)	Cable Weight (kg/km)
2	8.5	55	110	75
4	8.5	55	110	75
6	8.5	55	110	75
8	8.5	55	110	75
12	8.5	55	110	75
24	8.5	55	110	80

## 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

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

## ordering information

Example: FPSN512- Fibre, Gel-Filled Single Armour Single Central Jacket Outside Plant Cable, Non-rated, OM2, 12-fibre

<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>P</b>	<b>S</b>	<b>N</b>	<b>5</b>	<b>1</b>	<b>2</b>

### 1 and 2 – Fibre Product

FP = Fibre- OM1, OM2, OS1/OS2  
FQ = Fibre- OM3, OM4

### 3 – Cable Construction

S = Gel-Filled single armour  
single jacket outside  
plant cable

### 4 – Flame Rating

N = Non-rated

### 5 – Fibre Type

9 = OS1/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 – Fibre Count

04 = 4-fibre  
06 = 6-fibre  
08 = 8-fibre  
12 = 12-fibre  
24 = 24-fibre

# EL-KAYAN TECHNOLOGY

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