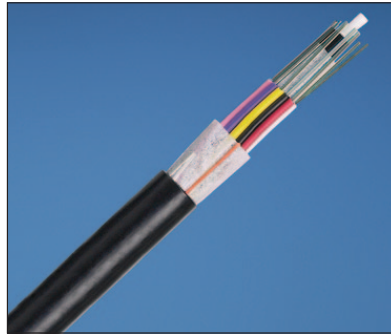


Opti-Core™ Gel-Filled All Dielectric Central Tube Outside Plant Cable - EMEA

technical information

Panduit™ Opti-Core™ Gel-Filled All-Dielectric Central Tube 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 can be used for aerial and duct applications and features a non-metallic construction that eliminates the need to ground or bond. 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 fibre types. Available in fibre counts from 2 to 24-fibres as a “central loose tube” design. All Opti-Core™ Fibre Optic Cable is RoHS compliant.



application

This cable is well suited for direct burial with proper sand back filling. May be installed in tubes by flooding or blowing. 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 its LLDPE sheathing this cable is ideal for outdoor installation. The cable features a high tensile strength and a degree of rodent protection, effective in many cases.

standards

ISO 11801 2nd edition
EN 50173-1:2002
IEC 60794-1

construction

Strength members	Waterblocked E-Glass fibre elements
Loose tube	02.8 mm jelly-filled loose tube with 2-16 fibres 03.5 mm jelly-filled loose tube with 24 fibres
Water blocking	The core is water blocked using swellable tape and yarn
Wrapping	Polyester tape (jelly-filled)
Outer sheath thickness	1.2mm black LLDPE sheath, IEC 60811, IEC 60708
Outer sheath	LLDPE. 1 ripcord under the sheath 1.9mm nominal

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mechanical properties

Tensile strength (installation)	E1	1000N (fibre strain less than 1/3 of proof test level)
Tensile strength (long-term)	E1	750N (no attenuation change; fibre strain less than 1/4 of proof test level)
Compressive strength (crush)	E3	2000N
Impact	E4	20 Nm (no attenuation change, no broken cable elements)
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 200mm
Temperature range	F1	Shipping/Storage: -40° C to +60° C (short-term up to 70° C) Installation: : -15° C to +40° C Operation: : -30 °C to +60 °C
Water penetration	F5B	No water on free end

physical properties

Fibre Count	Cable O.D. (mm)	Long-Term Bend Radius (mm)	Installation Bend Radius (mm)	Cable Weight (kg/km)
2	6.5	60	100	40
4	6.5	60	100	40
6	6.5	60	100	40
8	6.5	60	100	40
12	6.5	60	100	40
24	7.0	60	100	45

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

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ordering information

Example: FPUN512- Fibre, Gel-Filled All Dielectric Central Tube Outside Plant Cable, Non-Rated, OM2, 12-Fibre

Character	1	2	3	4	5	6	7
Example	F	P	U	N	5	1	2

1 and 2 – Fibre Product

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

3 – Cable Construction

U = Gel-Filled all dielectric central tube outside plant cable

4 – Flame Rating

N = Non-rated

5 – Fibre 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 – Fibre Count

02 = 2-fibre
04 = 4-fibre
06 = 6-fibre
08 = 08-fibre
12 = 12-fibre
24 = 24-fibre

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2/2014