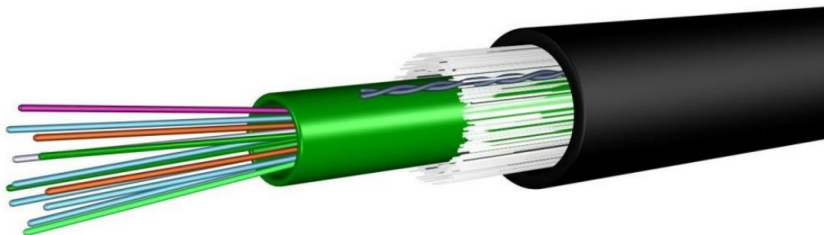
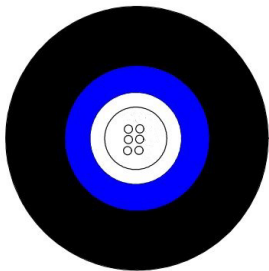


technical information

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 and G.657.A1 standards), and OM4 multimode fibre types. Available with 4 or 6 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. 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 member	Water-blocked E-Glass fibre elements
Loose tube	Gel-filled central loose tube with 250µm coated fibres
Sheath	1.2mm black LLDPE sheath, IEC 60811, IEC 60708

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

mechanical properties

Tensile strength (installation)	3000 N (fibre strain <0.6%)
Tensile strength (permanent)	1000 N (fibre strain <0.2%)
Compressive strength (crush)	2000 N
Impact	20 Nm (no attenuation change; no broken cable elements)
Torsion	5 cycles ±1 turn
Kink	The cables do not form a kink when a loop is drawn together to a diameter of 200mm
Temperature range	Shipping/Storage: -40°C to +60°C (short-term up to 70°C) Installation: -15°C to +70°C Operation: -30°C to +70°C
Water penetration	No water on free end

physical properties

Fibre Count	Cable Diameter (mm)	Long-Term Bend Radius (mm)	Installation Bend Radius (mm)	Cable Weight (kg/km)
4	6.7	67	134	40
6	6.7	67	134	40

fibre colour code

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

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

ordering information

Example: FPUN906 Fibre, Gel-Filled All Dielectric Central Tube Outside Plant Cable, OS2, 6-Fibre

Character	1	2	3	4	5	6	7
Example	F	P	U	N	9	0	6

1 and 2 – Fibre Product, Region

FP = Fibre Cable, EMEA,
OS2

FQ = Fibre Cable, EMEA,
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

Z = OM4 10G 50/125µm

6 and 7 – Fibre Count

04 = 04-Fibre

06 = 06-Fibre

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For more information

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or by phone: 800.777.3300

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