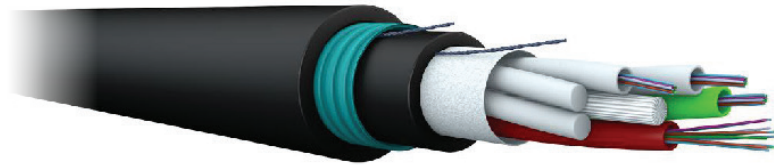


Opti-Core™ Gel-Filled Single Armour Double Jacket Outside Plant Cable - EMEA

specifications

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 OS2 (ITU-T G.652.D and G.657.1A standards). Available in fibre counts from 8 to 144 fibres as a “stranded loose tube” design. All Opti-Core™ Fibre Optic Cable is RoHS compliant.



standards and flame rating

<i>EN 187000</i>	IEC 60794-3-12
<i>IEC 60794-3</i>	ISO 11801
<i>IEC 60794-3-10</i>	EN 50173-1

cable construction

<i>Central strength member:</i>	2.5mm FRP rod
<i>Loose tube:</i>	2.3mm Jelly filled loose tubes, with 2-12 fibre each
<i>Water-blocking:</i>	The core is water blocked using swellable tapes and thread
<i>Wrapping:</i>	Polyester tape
<i>Rip cord:</i>	2 Rip cords
<i>Inner sheath:</i>	Black MDPE, IEC 60811, IEC 60708
<i>Armouring:</i>	0.15mm Corrugated steel tape
<i>Outer sheath:</i>	1.5mm Black MDPE, IEC 60811, IEC60708

key features and benefits

<i>Gel-filled tube and water-blocking tape</i>	Blocks water from entering the cable and damaging the optical fibres
<i>Steel tape armour</i>	Makes the cable rodent proof
<i>ITU G.657.A1 singlemode fibres</i>	Deliver high bit rate data transmission and are bend insensitive

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applications

- This cable can be used for outdoor data communications connections including CATV, telecom trunk and access lines
- The cable is armoured for direct burial and conditions with risk of severe rodent attacks

physical and mechanical properties (IEC 60794-1-21/22)

Fibre Count	8	12	24	48	72	96	144
Number of Tubes × Fibres per Tube	1×8f	1×12f	2×12f	4×12f	6×12f	8×12f	12×12f
Cable Outside Diameter, mm	14.5	14.5	14.5	14.5	14.5	14.5	19.5
Bend Radius (Installation/Short Term), mm	145	145	145	145	145	145	195
Bend Radius (Operation/Long Term), mm	290	290	290	290	290	290	390
Nominal Cable Weight, kg/km	195	195	195	195	195	195	345
Tensile strength (Installation/Short Term), N	1800 (fibre strain ≤ 0.6%)						
Tensile strength (Operation/Long Term), N	1200 (fibre strain ≤ 0.2%)						
Compressive strength (Crush), N/100 mm	3000						
Impact, J	20						
Torsion	5 cycles ± 1 turn						
Kink	Cable does not form a kink when loop is drawn to a diameter 12 times the cable diameter						
Temperature range	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 (<0.05dB) for a singlemode fibre, when tested according to the standard mentioned

optical properties: maximum attenuation (cabled)

OS2 Singlemode (ITU-T G.657.A1)	0.4dB/km @1310 nm, 0.3dB/km @1550 nm
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ordering information

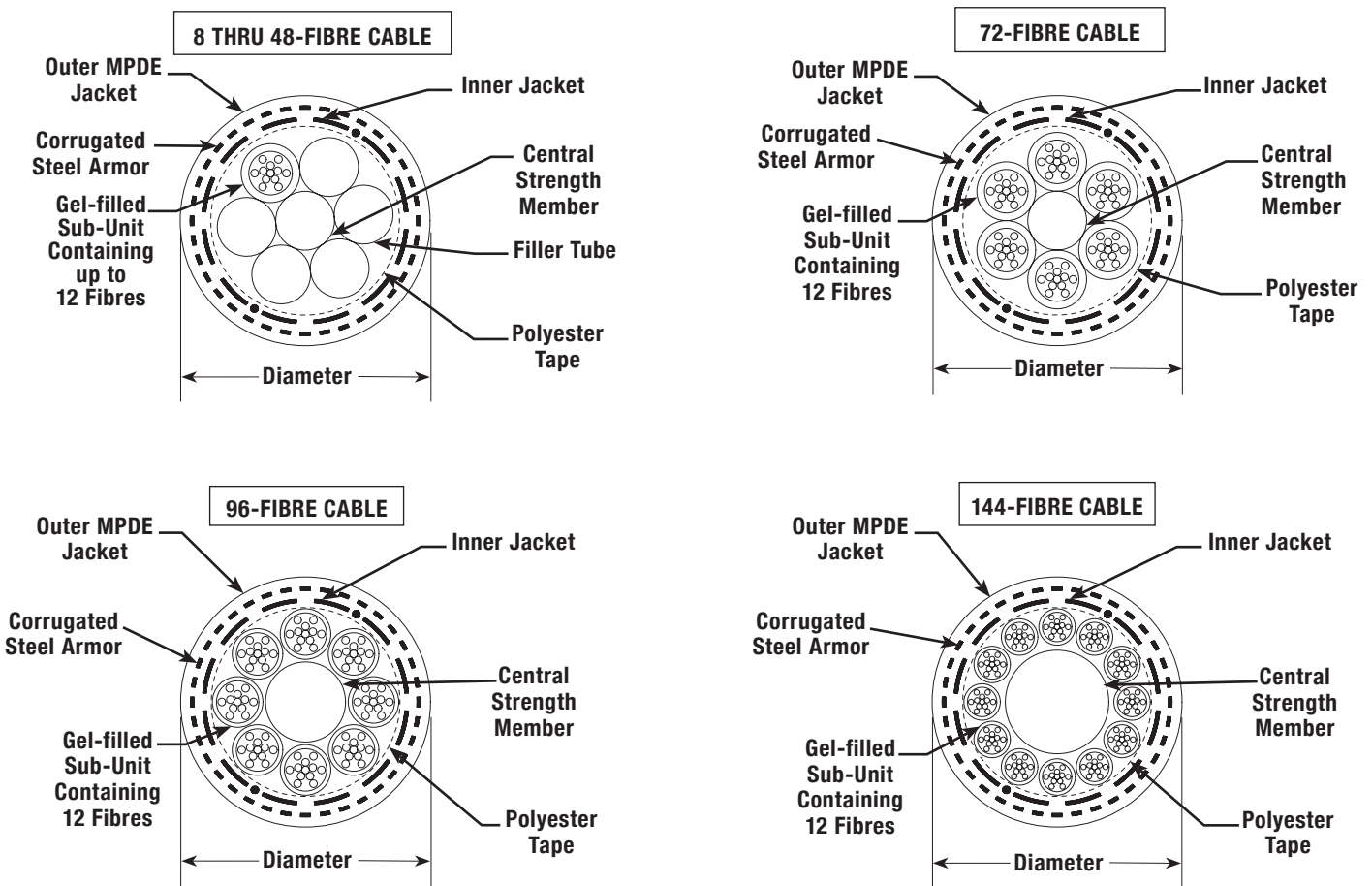
FPQN908B	OS2 8 Fibre outside plant cable, single armor, double jacket, 250µm fibres
FPQN912B	OS2 12 Fibre outside plant cable, single armor, double jacket, 250µm fibres
FPQN924B	OS2 24 Fibre outside plant cable, single armor, double jacket, 250µm fibres
FPQN948B	OS2 48 Fibre outside plant cable, single armor, double jacket, 250µm fibres
FPQN972B	OS2 72 Fibre outside plant cable, single armor, double jacket, 250µm fibres
FPQN996B	OS2 96 Fibre outside plant cable, single armor, double jacket, 250µm fibres
FPQN914B	OS2 144 Fibre outside plant cable, single armor, double jacket, 250µm fibres

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fibre colour code

1	2	3	4	5	6	7	8	9	10	11	12
Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Pink

Cross sections (representative, not to scale)



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