

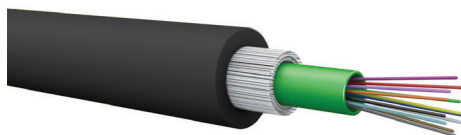
Opti-Core™ Fibre Optic Indoor-Outdoor Cable

Up to 24 Fibres, EuroClass Cca and B2ca for EMEA

PANDUIT™
DATA SHEET

specifications

The fibre cable shall contain up to 24 fibres and have an all-dielectric loose tube construction. It shall be suitable for indoor applications, complying with IEC standards for low smoke / zero halogen and EuroClass Cca and B2ca for fire protection. It shall be water-blocked and UV resistant for use in outdoor environments. In order to be compact and lightweight, the cable shall use a central loose tube design. It shall have options for singlemode (OS2) or multimode fibres (OM3, OM4, OM5) to support 10 Gb/s network transmission and beyond.



standards and flame rating

✓ ISO 11801 (Generic Cabling)	✓ EN 50399 (EuroClass Cca-s1a-d1-a1 and B2ca-s1a-d1-a1)
✓ EN 50173 (Generic Cabling)	✓ IEC 60332-1-2 and IEC 60332-3-24 (Flame retardant)
✓ IEC 60794-1 (Optical Fibre Cables)	✓ IEC 61034 and IEC 60754 (Low Smoke Zero Halogen)
✓ EN 50575 (Reaction to fire)	✓ RoHS Compliant

cable construction (non-metallic)

Loose Tube:	Central tube contains up to 24 250µm coated fibres
Water-Blocking and Strength Members:	Central tube is water-blocked with gel Cable includes water-blocking glass yarn strength members
Outer sheath:	Outer sheath is black, low smoke halogen free and UV stabilized

key features and benefits

Central tube design	Allows smaller cable diameter and lighter weight versus tight buffered or stranded tube designs
Gel-filled tube and water-blocking yarn	Blocks water from entering the cable and damaging the optical fibres
UV Resistant outer jacket	Resists degradation due to sunlight exposure
EuroClass CPR Cca and B2ca	Very high flame-retardant performance
Highest quality OM3, OM4 and OM5 laser optimized fibre	Supports 10 Gb/s applications and beyond, while maintaining compatibility with existing 50µm multimode systems

applications

- This cable can be used for LAN and WAN backbones, telecom access lines, fibre-to-the-building drop connections, and access connections
- This cable has flame retardant and LSZH properties and is ideal for indoor installations
- The cable is water-blocked and well suited for installation in ducts and on trays indoors and limited outdoor use in ducts
- Due to its indoor-outdoor properties, it is a good choice for entrance facilities
- Glass yarn strength members offer a degree of rodent deterrence

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physical and mechanical properties

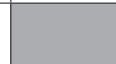
Nominal Outside Diameter	7.5mm
Nominal Weight	73 kg/km
Bend Radius (Installation / Short Term)	150mm
Bend Radius (Operation / Long Term)	75mm (above -20°C)
Tensile strength (Installation / Short Term)	2000 N (fibre strain ≤ 0.6%)
Tensile strength (Operation / Long Term)	1000 N (fibre strain ≤ 0.2%)
Compressive strength (Crush)	2000 N / 100mm
Impact	20 Joules (striking surface radius = 300mm) 5 Joules (striking surface radius = 12.5mm)
Torsion	5 cycles ± 1 turn
Kink	Cable does not form kink when loop is drawn together To a diameter of 75mm (Cca) or 100mm (B2ca)
Temperature range	Storage: -40°C to +70°C Installation: -20°C to +60°C Operation: -40°C to +70°C*

*In the case of ≤-20°C temperature during operation, no sharp bends are allowed, and permanent bending radius must be >150mm

optical properties: maximum attenuation

OS2 Singlemode (ITU-T G.657.A1)	0.4 dB/km @1310 nm, 0.3 dB/km @1550 nm
OM3, OM4, OM5 Multimode	3.5 dB/km @850 nm, 1.5 dB/km @1300 nm

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
											

Fibres 13 through 24 repeat this colour sequence and have a mark every 70mm. Fibre 22 is White with a mark every 35mm.

ordering information

*Example: FACC912-24, Indoor-Outdoor Central Tube Cable, OS2, 12 Fibres, Cca

CHARACTER	1	2	3	4	5	6	7	8	9	10
EXAMPLE*	F	A	C	C	9	1	2	—	2	4

1 and 2 – Fibre Product
FA = Fibre Cable, EMEA

3 – Cable Construction
C = Indoor-Outdoor Central Tube
All Dielectric (up to 24 fibres)

4 – Flame Rating
C = EuroClass rated

5 – Fibre Type
9 = OS2 9/125µm
X = OM3 10 GbE 50/125µm
(only in Cca)
Z = OM4 10 GbE 50/125µm
W = OM5 10 GbE 50/125µm
(only in Cca with 12 or 24 fibres)

6 and 7 – Fibre Count
04 = 4 - fibre
06 = 6 - fibre
08 = 8 - fibre
12 = 12 - fibre
24 = 24 - fibre

8 – Dash
9 and 10 – EuroClass Code
14 = B2ca-s1a-d1-a1
24 = Cca-s1a-d1-a1

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