

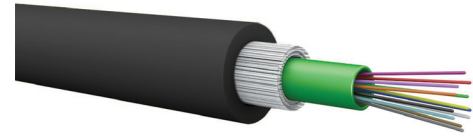
Opti-Core™ Fibre Optic Indoor-Outdoor 24 Fibre Cable

Europe, Middle East,
and Africa

PANDUIT™
SPECIFICATION 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

PHYSICAL AND MECHANICAL PROPERTIES

Rating:	Cca	B2ca
Nominal outside diameter:	6.5mm	7.5mm
Nominal weight:	49 kg/km	73 kg/km
Bend radius (installation/short term):	"During installation (loaded) = 20xOD Permanent (unloaded) = 10xOD"	
Tensile strength (installation/short term):	2000 N (fibre strain ≤ 0.6%)	
Tensile strength (operation/long term):	600 N (fibre strain ≤ 0.2%)	
Compressive strength (crush):	1000 N	2000 N
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)"	
Storage temperature range:	-30°C to +70°C	
Installation temperature range:	-15°C to +60°C	
Operational temperature range:	-30°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

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

Opti-Core™ Fibre Optic Indoor-Outdoor 24 Fibre Cable

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

FIBER COLOR SEQUENCE

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 – Fiber Product	FA = Fibre Cable, EMEA	6 and 7 – Fibre Count	04 = 4-fibre 06 = 6-fibre 08 = 8-fibre 12 = 12-fibre 24 = 24-fibre
3 – Cable Construction	C = Indoor-Outdoor Central Tube All Dielectric (up to 24 fibres)	8 – Dash	
4 – Flame Rating	C = EuroClass rated	9 and 10 – Length	14 = B2ca-s1a-d1-a1 24 = Cca-s1a-d1-a1
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)		

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty



For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

©2024 Panduit Corp.
ALL RIGHTS RESERVED.
FBSP266-WW-UKE
4/2024