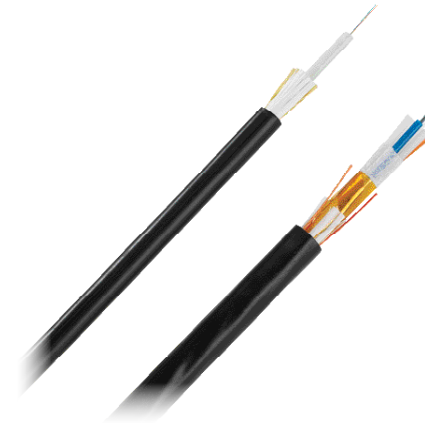


technical information

Opti-Core™ Fibre Optic Indoor/Outdoor Cable is an integral part of the Panduit end-to-end fibre optic solution, designed to support today's data needs while meeting tomorrow's ever-advancing network requirements. This low smoke zero halogen (LSZH) rated cable provides water-blocking, high density, and easy installation in duct applications and entrance facilities. Opti-Core™ Fibre Optic Indoor/Outdoor Cable meets the IEC 60794-1 standards. Opti-Core™ 10 GbE Fibre Optic Indoor/Outdoor Cable features the highest quality OM3 and OM4 laser optimised fibre to support 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems. Standard multimode and singlemode indoor/outdoor cables are available in fibre counts up to 24 fibres as a "central tube" design and up to 72-fibres as a "stranded tube" design.



application

For use indoors or outdoors. Central and stranded loose tube constructions are all-dielectric.

standards

ISO 11801
EN 60794-2-20
IEC 60794-2-20
EN 50173

EuroClass Eca

construction

Central strength member	2-24-fibre – None 36-72-fibre – FRP
Water blocking	The core is water blocked using swellable tape
Wrapping	2-24-fibre- None 36-72-fibre- Polyester
Sheath	LSZH/LSHF-FR/FRNC according to EN 50290-2-27

fire ratings

IEC 60332-1-2
IEC 60794-2
IEC 61034

Opti-Core™ Fibre Optic Indoor/Outdoor Cable – EMEA

mechanical properties

Tensile strength (Long Term)	<24-fibre: 700 N >24-fibre: 1200 N
Tensile strength (Installation)	<24-fibre: 1500 N >24-fibre: 1800 N
Max Installation load	2-24-fibre: 1500 N 36-72-fibre: 5000 N
Compressive strength (crush)	2-24-fibre: 2000N/ 1000nm 36-72-fibre: 3000 N/ 100nm
Impact	20 Nm
Torsion	5 cycles ±1 turn
Kink	Pass
Temperature range	Installation: -15°C to +40°C Operation: -30°C to +70°C (<24-fibre) Operation: -40°C to +60°C (>24-fibre) Storage: -40°C to +60°C

physical properties

Fibre Count	Cable O.D. (mm)	Installation Bend Radius (mm)	Long Term Bend Radius (mm)	Cable Weight (kg/km)
2	7.5 mm	100 mm	60 mm	75 kg/km
4	7.5 mm	100 mm	60 mm	75 kg/km
6	7.5 mm	100 mm	60 mm	75 kg/km
8	7.5 mm	100 mm	60 mm	75 kg/km
12	7.5 mm	100 mm	60 mm	75 kg/km
24	8 mm	100 mm	60 mm	85 kg/km
36	11 mm	150 mm	150 mm	150 kg/km
48	11 mm	150 mm	150 mm	150 kg/km
72	11 mm	150 mm	150 mm	150 kg/km

Opti-Core™ Fibre Optic Indoor/Outdoor Cable – EMEA

fibre colour code 2-24 fibres

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

ordering information

*Example: FACC912-40, Fibre, Indoor/Outdoor Central Tube, EuroClass, OS2, 12-fibre-Eca

Character	1	2	3	4	5	6	7	8	9	10
Example*	F	A	C	C	9	1	2	-	4	0

1 and 2 – Fibre Product

FA = Fibre

3 – Cable Construction

N = Indoor/Outdoor Stranded Tube
(greater than 24 fibre)

C = Indoor/Outdoor Central Tube
(up to 24 Fibre)

4 – Flame Rating

C = EuroClass rated

5 – Fibre Type

9 = OS2 9/125µm

6 = OM1 62.5/125µm

5 = OM2 50/125µm

X = OM3 10 GbE 50/125µm

Z = OM4 10 GbE 50/125µm

6 and 7 – Fibre Count

02 = 2-fibre

04 = 4-fibre

06 = 6-fibre

08 = 8-fibre

12 = 12-fibre

24 = 24-fibre

36 = 36-fibre

48 = 48-fibre

72 = 72-fibre

8 – Dash

9 and 10 – EuroClass Code

40 - Eca

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