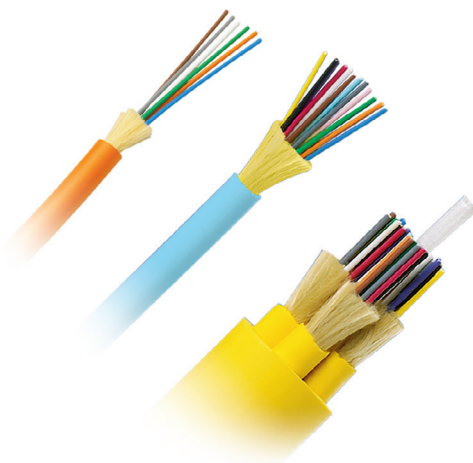


technical information

Opti-Core™ Fibre Optic Indoor 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. These fibre optic indoor cables are used within buildings to provide high-density connectivity and ease of installation. Applications include intra-building backbones, routing between telecommunications rooms and connectorised cables that require Low Smoke Zero Halogen (LSZH) ratings. Opti-Core™ 10 GbE Fibre Optic Indoor 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 singlemode and multimode indoor cable is available in fibre counts from 4 to 24 fibres. Larger distribution cable features a 6 fibre per sub-unit design that simplifies fibre identification, provides easy access and routing of the fibres and increases cable durability with a dielectric central strength member.



application

For indoor use in intra-building backbone and horizontal installations.

standards

IISO 11801 2nd edition
EN 187 000
EN 50173-1
IEC 60794-2-20
EuroClass B2ca-s1-d1-a1 and Cca-s1-d1-a1

construction

Central strength member	2-24-fibre -None 36-72-fibre- FRP
Tight Buffer	PBT
Water blocking	None
Wrapping	2-24-fibre- None 36-72-fibre- Polyester
Sheath	LSZH/LSHF-FR/FRNC according to EN50290-2-27

fire ratings

IEC 60332-1-2
IEC 60332-3-24
IEC 60754-2
IEC 61034

Opti-Core™ Fibre Optic Indoor Distribution Cable – EMEA - Class B2ca and Cca

mechanical properties

Tensile strength (Long Term)	2-8 fibre: 560 N 12-16 fibre: 680 N 24 fibre: 800 N
Tensile strength (Installation)	2-8 fibre: 1000 N 12-16 fibre: 1200 N 24 fibre: 1500 N
Max Installation load	2-24-fibre: 1000 N-1500 N depending on fibre count
Compressive strength (crush)	3000 N/ 100 mm
Impact	20 J
Torsion	5 cycles ±1 turn
Kink	Pass
Temperature range	Installation: -20°C to +70°C Operation: -20°C to +70°C Storage: -40°C to +70°C (2-24-fibre)

physical properties

Fibre Count	Cable O.D. (mm)	Installation Bend Radius (mm)	Long Term Bend Radius (mm)	Cable Weight (kg/km)
2	5.3 mm	100 mm	50 mm	21 kg/km
4	5.7 mm	100 mm	50 mm	26 kg/km
6	6.1 mm	100 mm	50 mm	30 kg/km
8	6.8 mm	100 mm	50 mm	35 kg/km
12	7.2 mm	130 mm	75 mm	45 kg/km
24	8.6 mm	230 mm	115 mm	65 kg/km

Opti-Core™ Fibre Optic Indoor Distribution Cable – EMEA - Class B2ca and Cca

fibre colour code 2-24 fibres

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

ordering information

*Example: FADC912-24 - Indoor distribution stranded tube fibre, EuroClass rated, OS2, 12-fibre, Cca-s1-d1-a1

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

1 and 2 – Fibre Product

FA = Fibre

3 – Cable Construction

D- Indoor Distribution Central Tube
(up to 24 fibre)

4 – Flame Rating

C = EuroClass Rated

5 – Fibre Type

9 = OS2 9/125µm

5 = OM2 50/125µm

6 = OM1 62.5/125µm

X = OM3 10 GbE 50/125µm

Z = OM4 10 GbE 50/125µm

8 – Dash

9 and 10 - EuroClass Code

14- B2ca-s1-d1-a1

24- Cca-s1-d1-a1

6 and 7 – Fibre Count

04 = 4-fibre

12 = 12-fibre

24 = 24-fibre

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