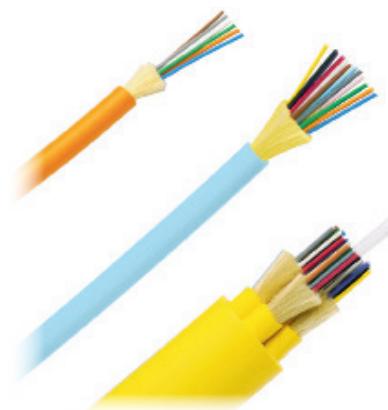


Opti-Core™ Fibre Optic Indoor Distribution Cable

– EMEA - Class B2c and Cca

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 singlmode and multimode indoor cable is available in fibre counts from 4 to 72 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

ISO 11801 2nd edition
EEN 187 000
EN 50173-1

IEC 60794-2-20
EuroClass B2caS1D1A1 and CcaS1AD1A1

construction

Central strength member	4-24-fibre -None
Tight Buffer	PBT
Water blocking	None
Wrapping	4-24-fibre- None
Sheath	LSZH/LSHF-FR/FRNC according to EN50290-2-27

fire ratings

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

Opti-Core™ Fibre Optic Indoor Distribution Cable – EMEA

mechanical properties

Tensile strength (Long Term)	4-8 fibre: 560 N 12-16 fibre: 680 N 24 fibre: 800 N
Tensile strength (Installation)	4-8 fibre: 1000 N 12-16 fibre: 1200 N 24 fibre: 1500 N
Max Installation load	4-24-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)
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

fibre colour code 2-24 fibres

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

ordering information

*Example: FADC912-24 - Indoor distribution stranded tube fiber, EuroClass rated, OS2, 12-fiber, CcaS1AD1A1

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 12 fiber)

I- Interconnect zipcord cable (only 2 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

6 and 7 – Fibre Count

04 = 4-fibre

12 = 12-fibre

06 = 6-fibre

24 = 24-fibre

08 = 8-fibre

8 – Dash

9 and 10 - EuroClass Code

14- B2caS1AD1A1

24- CcaS1AD1A1

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