

## 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 EuroClass Cca-s1a-d1-a1, B2ca-s1a-d1-a1 rated cable provides gel water-blocking, and easy installation in duct applications and entrance facilities. Glass yarn strength members also offer a limited degree of rodent protection. 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.



## application

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

## standards

ISO 11801 2nd edition  
EN 50173-1:2002  
IEC 60794-1  
EN 50173

EuroClass Cca-s1a-d1-a1  
B2ca-s1a-d1-a1

## construction

Central strength member	E- glass yarns
Water blocking	The core is water blocked using gel
Sheath	EN 50290-2-27

## fire ratings

IEC 60332-1-2  
IEC 60332-3-24  
UEC 60754-2  
IEC 61034  
EN 50399 covers applications for class: Cca-s1a-d1-a1, B2ca-s1a-d1-a1

# Opti-Core™ Fibre Optic Indoor/Outdoor Cable – EMEA – EuroClass Cca-s1a-d1-a1, B2ca-s1a-d1-a1

## mechanical properties

Tensile strength (Long Term)	2 - 24-fibre: Cca: 1500 N B2ca: 1000 N
Tensile strength (Installation)	2 - 24-fibre: 3000 N
Max Installation load	2 - 24-fibre: 1500 N
Compressive strength (crush)	2 - 24-fibre: 2000N/ 100mm
Impact	20 Nm
Torsion	5 cycles ±1 turn
Kink	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
Temperature range	Installation: -40°C to +70°C Operation: -40°C to +70°C Storage: -40°C to +70°C

## physical properties

Fibre Count	Cable O.D. (mm)	Installation Bend Radius (mm)	Long Term Bend Radius (mm)	Cable Weight (kg/km)
2 - 24	Cca: 9.0 mm B2ca: 10.0 mm	180 mm	90 mm	Cca: 100 kg/km B2ca: 112 kg/km

## 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: FACC912-24 Fibre, Indoor/Outdoor Central Tube, EuroClass, OS2, 12-fibre, Cca-s1a-d1-a1

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

### 3 – Cable Construction

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    08 = 8-fibre  
04 = 4-fibre    12 = 12-fibre  
06 = 6-fibre    24 = 24-fibre

### 8 – Dash

### 9 and 10 – EuroClass Code

24- Cca-s1a-d1-a1  
14- B2ca-s1a-d1-a1

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