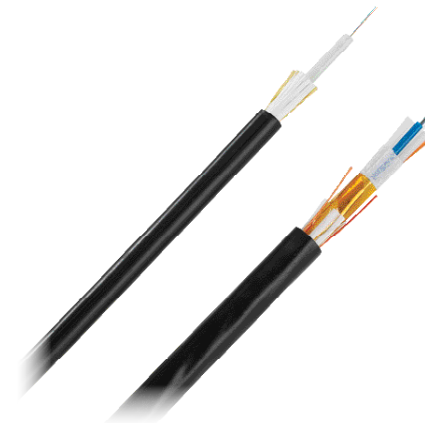


## technical information

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 144-fibres as a "stranded tube" design.



## application

For use indoors or outdoors. Suited for installation in ducts and on trays. May be used for direct burial with proper sand back-filling. Glass yarns provide a degree of rodent protection.

## standards

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

EuroClass Eca

## construction

Central Tube Cable (up to 24 Fibres)	Central tube contains up to 24 250um coated fibres and is water-blocked with gel. Cable is all-dielectric and includes water-blocking strength members and ripcord.
Stranded Tube Cable (>24 Fibres)	Each sub-unit tube contains 12 250um coated fibres and is water-blocked with gel. Cable is all-dielectric and has central strength member and ripcords; also filler tubes for certain fiber counts. Sub-units are surrounded by water-blocking tape, flame-retardant tape and strength members.
Outer sheath	Outer sheath is black, low smoke, halogen free and UV stabilised.

## fire ratings

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

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

## mechanical properties

<b>Tensile strength (Long Term)</b>	up to 24-fibre: 700 N >24-fibre: 3500 N (fibre strain <0.25%)
<b>Tensile strength (Installation)</b>	up to 24-fibre: 1500 N >24-fibre: 5000 N (fibre strain <0.5%)
<b>Compressive strength (crush)</b>	up to 24-fibre: 2000N/ 1000nm >24-fibre: 3000 N/ 100nm
<b>Impact</b>	20 J
<b>Torsion</b>	5 cycles ±1 turn
<b>Kink</b>	No kink when looped to a diameter of 200mm (central tube) or 12X the cable diameter (stranded tube)
<b>Temperature range</b>	Installation: -15°C to +40°C Operation: -30°C to +70°C (up to 24-fibre) Operation: -40°C to +70°C (>24-fibre) Storage: -40°C to +60°C

## physical properties

Fibre Count	Cable Diameter (mm)	Installation Bend Radius (mm)	Long Term Bend Radius (mm)	Cable Weight (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	230 mm	115 mm	104 kg/km
48	11 mm	230 mm	115 mm	105 kg/km
72	11 mm	230 mm	115 mm	130 kg/km
96	12 mm	260 mm	130 mm	165 kg/km
144	15 mm	310 mm	155 mm	205 kg/km

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

## fibre colour code

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

## ordering information

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

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

### 1 and 2 – Fibre Product

FA = Fibre Cable, EuroClass

### 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

X = OM3 10 GbE 50/125µm

Z = OM4 10 GbE 50/125µm

### 6 and 7 – Fibre Count

04 = 4-fibre

06 = 6-fibre

08 = 8-fibre

12 = 12-fibre

24 = 24-fibre

36 = 36-fibre

48 = 48-fibre

72 = 72-fibre

96 = 96-fibre

1A = 144-fibre

### 8 – Dash

### 9 and 10 – EuroClass Code

40 - Eca

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