

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 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
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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, class Dca, class Eca
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Opti-Core™ Fibre Optic Indoor/Outdoor Cable – EMEA - EuroClass Cca-s1a-d1-a1

mechanical properties

Tensile strength (Long Term)	2 - 24-fibre : 1500 N
Tensile strength (Installation)	2 - 24-fibre: 3000 N
Max Installation load	2 - 24-fibre: 1500 N
Compressive strength (crush)	2-24-fibre: 2000N/ 1000nm
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 (2 - 24-fibre) 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	9.0 mm	180 mm	90 mm	100 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

04 = 4-fibre

06 = 6-fibre

08 = 8-fibre

12 = 12-fibre

24 = 24-fibre

8 – Dash

9 and 10 - EuroClass Code

24- Cca-s1a-d1-a1

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
EMEA-CustomerService@
panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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