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



technical information

Opti-Core Fibre Optic Indoor/Outdoor Cable shall be an integral part of any end-to-end fibre optic solution, designed to support the data needs of today while meeting the ever-advancing network requirements of tomorrow. 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 shall meet the IEC 60794-1 standards. Opti-Core[™] 10 GbE Fibre Optic Indoor/Outdoor Cable shall feature 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 shall be available in fibre counts up to 24 fibres as a central tube design and up to 72-fibres as a stranded tube design.



applications

Opti-Core Fibre Optic Indoor/Outdoor Cable is for use indoors or outdoors. It is suited for installation in ducts and on trays. It may be used for direct burial with proper sand back-filling. The glass yarns provide a degree of rodent protection.

cable construction

Central tube cable (up to 24 Fibres):	Central tube contains up to 24 250µm 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.

physical and mechanical properties

physical	unu	IIIU	0110		ar	101		103	
Fibre count:	4	6	8	12	24	48	72	96	144
Cable Diameter (mm):	7.3	7.3	7.3	7.3	7.3	11.5	11.5	13	15.5
Installation Bend Radius (mm):	146	146	146	146	146	230	230	260	310
Long Term Bend Radius (mm):	73	73	73	73	73	115	115	130	155
Cable Weight (kg/km):	51.7	51.7	51.7	51.7	51.7	105	130	165	205
Tensile strength (Long Term):		up to 24-fibre: 1000 N >24-fibre: 3500 N (fibre strain <0.25%)							
Tensile strength (Installation):		up to 24-fibre: 3000 N >24-fibre: 5000 N (fibre strain <0.5%)							
Compressive strength (crush):		up to 24-fibre: 3,500 N/10cm >24-fibre: 3000 N/100nm							
Impact:	20 J								
Torsion:	5 cycl	5 cycles ±1 turn							
Kink:	tube)	No kink when looped to a diameter of 200mm (central tube) or 12X the cable diameter (stranded tube)							
Temperature range*:	Opera Opera	Installation: -15°C to +40°C Operation: -30°C to +60°C (up to 24-fibre) Operation: -40°C to +70°C (>24-fibre) Storage: -40°C to +60°C							

standards and flame rating

ISO 11801	EuroClass Eca	
EN 60794-2-20	_	
IEC 60794-2-20	_	
EN 50173	-	
Flame ratings:	IEC 60332-1-2	
	IEC 60794-2	
	IEC 61034	

fibre colour code

1	2	3	4	5	6	7	8	9	10	11	12
Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Black	Orange	Pink

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ordering information

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

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Charac	cter
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Example

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 – Fiber Type

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- 9 = OS2 9/125µm
- X = OM3 10 GbE 50/125µm

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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
- 48 = 48-fibre (OS2 Only) 72 = 72-fibre (OM4 and OS2 only)**
- 96 = 96-fibre (OS2 Only)
- 1A = 144-fibre (OS2 Only)

8 – Dash N = Blunt end

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9 and 10 - EuroClass Code"

40 - Eca

Dimensions are in inches. [Dimensions in brackets are metric].
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