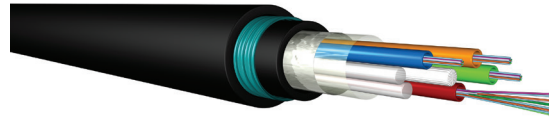


Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2ca for EMEA

specifications

The fibre cable shall contain 48 to 144 fibres and have an armoured loose tube construction. It shall be suitable for indoor applications, complying with IEC standards for low smoke/zero halogen and EuroClass (Cca or B2ca) for fire protection. The cable shall also be water-blocked for use in outdoor environments. It shall have options for singlemode (OS2) or multimode fibres (OM4) to support 10 Gb/s network transmission and beyond.



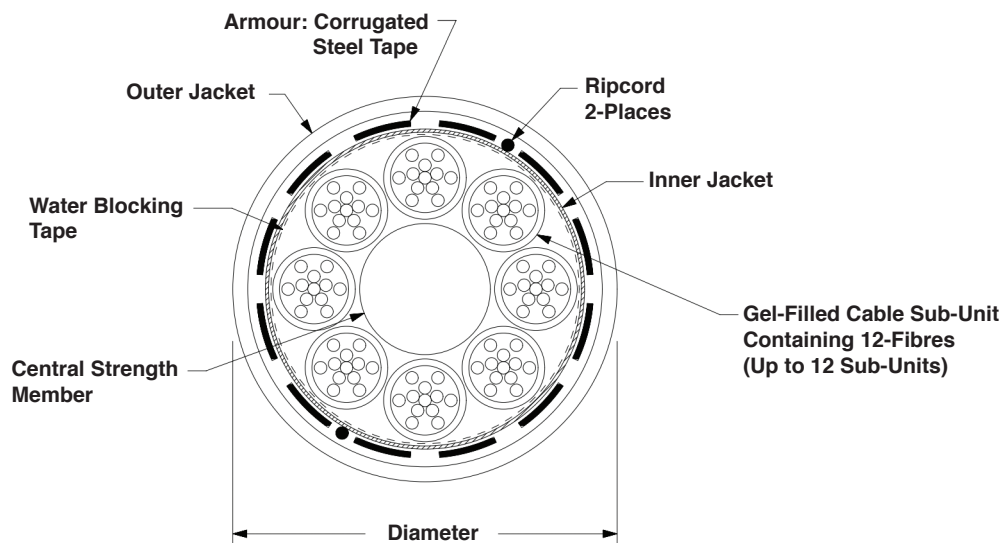
standards and flame rating

ISO 11801 (Generic Cabling)	EN 50575 (Reaction to fire)
EN 50173 (Generic Cabling)	EN 50399 (EuroClass Cca-s1a-d1-a1 and B2ca-s1a-d1-a1)
IEC 60794-1 and 2 (Optical Fibre Cables)	IEC 60332-1-2 and IEC 60332-3-24 (Flame retardant)
RoHS Compliant	IEC 61034 and IEC 60754 (Low Smoke Zero Halogen)

cable construction

Standard loose tube:	Each tube contains twelve 250µm coated fibres
Water blocking:	Each tube is water-blocked with gel; the core is wrapped with swellable tape
Strength members:	Central strength member (FRP rod)
Armour	0.155mm corrugated steel tape
Inner and outer sheaths/jackets:	Inner sheath and 1.5mm outer sheath are both Black and comply with EN 50290-2-27 (halogen free, flame retardant); two ripcords

cross section (representative, not to scale)



Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2ca for EMEA

key features and benefits

Gel-filled tube and water-blocking tape	Blocks water from entering the cable and damaging the optical fibres
EuroClass CPR Cca and B2ca	High flame-retardant performance
Steel tape armour	Makes the cable rodent proof
Highest quality OM4 laser optimized fibre	Supports 10 Gb/s applications and beyond, while maintaining compatibility with existing 50µm multimode systems

applications

- This cable can be used for outdoor data communications connections including CATV, telecom trunk and access lines.
- The intended installation environment is in tunnels and subways, where flame retardance is required.
- The cable is armoured for direct burial and conditions with risk of severe rodent attacks.

physical and mechanical properties

Fibre Count	48	72	96	144
Cable Outside Diameter, mm	14.5	14.5	14.5	19
Number of Sub-Unit Tubes/Filler Tubes	4/2	6/0	8/0	12/0
Bend Radius (Installation/Short Term), mm	145	145	145	190
Bend Radius (Operation/Long Term), mm	290	290	290	380
Approximate Cable Weight, kg/km	260	266	235	404
Tensile strength (Installation/Short Term), N	1800 (fibre strain ≤ 0.5%)			
Tensile strength (Operation/Long Term), N	1200 (fibre strain ≤ 0.25%)			
Compressive strength (Crush), N/100 mm	3000			
Impact, J	20			
Torsion	5 cycles ± 1 turn			
Kink	Cable does not form a kink when loop is drawn to a diameter 12 times the cable diameter			
Temperature range	Storage: -40°C to +60°C Installation: -30°C to +60°C Operation: -40°C to +60°C			

optical properties: maximum attenuation (cabled)

OS2 Singlemode (ITU-T G.657.A1)	0.5 dB/km @1310 nm, 0.5 dB/km @1550 nm
OM4 Multimode	3.0 dB/km @850 nm, 1.0 dB/km @1300 nm

Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2ca for EMEA

fibre colour code

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

ordering information

EuroClass	Fibre	Part Number	Description
Cca	OS2	FAMC948-24	OS2 48-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
		FAMC972-24	OS2 72-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
		FAMC996-24	OS2 96-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
		FAMC91A-24	OS2 144-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
	OM4	FAMCZ48-24	OM4 48-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
		FAMCZ72-24	OM4 72-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
		FAMCZ96-24	OM4 96-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
		FAMCZ1A-24	OM4 144-fibre indoor-outdoor armoured stranded, EuroClass Cca-s1a-d1-a1, 250µm fibres.
B2ca	OS2	FAMC948-14	OS2 48-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
		FAMC972-14	OS2 72-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
		FAMC996-14	OS2 96-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
		FAMC91A-14	OS2 144-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
	OM4	FAMCZ48-14	OM4 48-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
		FAMCZ72-14	OM4 72-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
		FAMCZ96-14	OM4 96-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.
		FAMCZ1A-14	OM4 144-fibre indoor-outdoor armoured stranded, EuroClass B2ca-s1a-d1-a1, 250µm fibres.

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