

Opti-Core™ Fibre Optic Indoor-Outdoor Cable with Tight Buffered Fibres – Cca/LSZH, 4km Reels for EMEA

specifications

The fibre cable shall contain 12 or 24 fibres with 900 micron tight buffering. It shall have an all-dielectric construction and be suitable for indoor applications, complying with IEC standards for low smoke/zero halogen and EuroClass Cca for fire protection. The cable shall also be UV resistant and 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. It shall be packaged as a single reel with 4km of cable.



standards and flame rating

ISO 11801 (Generic Cabling)

EN 50173 (Generic Cabling)

IEC 60794-2-20 (Optical Fibre Cables, Indoor)

RoHS Compliant

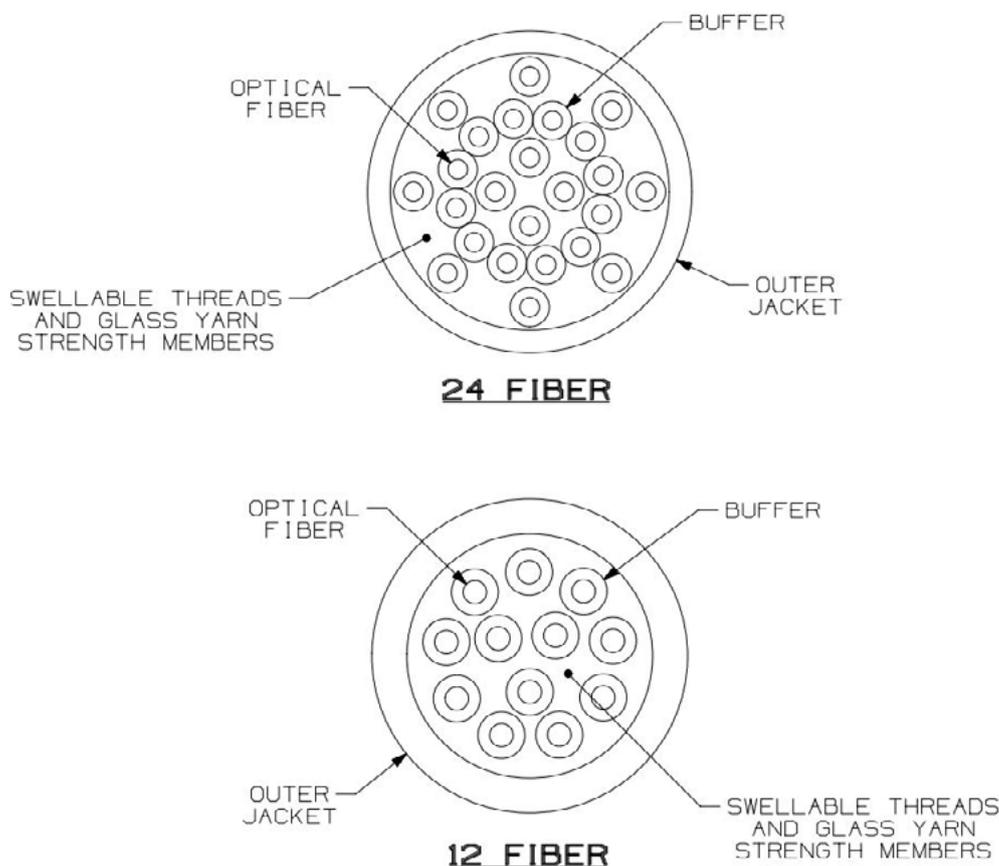
EN 50399, EN 50575 (EuroClass Cca-s1a-d1-a1)

IEC 60332-1-2 and IEC 60332-3-24 (Flame retardant)

IEC 61034 and IEC 60754-2 (Low Smoke Zero Halogen)

cable construction (all-dielectric)

- 900µm tight buffered fibers are surrounded by glass yarns and water-swellaable threads in an outer sheath.
- 1.5mm outer sheath is halogen free, flame resistant, and UV stabilised. One ripcord.
- Sheath color is yellow for OS2 singlemode and aqua for OM4 multimode.



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key features and benefits

EuroClass CPR Cca	High flame-retardant performance for indoor use
900µm tight buffered fibres	Easy to handle, strip and connectorize in the field
Outer sheath with UV stabilization and resistance to water and moisture	Resists degradation due to sunlight and water exposure; suitable for short outdoor runs
Water-swellable thread	Blocks water from entering the cable and damaging the optical fibres (longitudinally water-blocked)
4km reels	Ideal package size for distributors to stock and offer with Panduit's end-to-end fibre-optic connectivity solutions
G.657.A1 singlemode fibres	Deliver high bit rate data transmission and are bend insensitive
OM4 laser optimized fibres	Support 10 Gb/s applications and beyond, while maintaining compatibility with existing 50µm multimode systems

applications

- This distribution cable can be used for many indoor applications. It is also suitable for shorter outdoor runs.
- Typical applications include data centre backbones, LAN and WAN backbones and central office interconnections.
- This cable is suited for installation in ducts and on trays.

physical and mechanical properties

Fibre count	12	24
Cable diameter, mm	8.0	9.3
Bend radius (Installation/Short Term), mm	160	186
Bend radius (Operation/Long Term), mm (0.2 dB per ±5 turn)	80	93
Approximate cable weight, kg/km	66	90
Tensile strength (Installation/Short Term), N (fibre strain <0.6%)	800	1300
Tensile strength (Operation/Long Term), N (fibre strain <0.2%)	200	325
Compressive strength (Crush), N/100mm	1000	
Impact, J	10	
Torsion	5 cycles ±1 turn	
Kink	Cable does not form a kink when loop is drawn together to a diameter 12 times the cable diameter	
Temperature range	Storage: -20°C – 60°C Installation: -20°C – 60°C Operation: -20°C – 60°C	

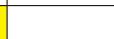
Tested according to IEC 60794-21/22 Methods

optical properties: maximum attenuation

OS2 Singlemode (ITU-T G.657.A1)	0.7dB/km @1310nm, 0.7dB/km @1550nm
OM4 Multimode	3.5dB/km @850nm, 1.5dB/km @1300nm

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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
											

Fibres 13 to 24 use same sequence as 1 to 12 and have a mark every 70mm. Fiber 22 is white with a mark every 35mm.

reel size and weight

- For 12-fiber cables, the reel will be no larger than 1000mm x 730mm (Flange Diameter x Outer Reel Width) and weigh no more than 350 kg, including the cable.
- For 24-fiber cables, the reel will be no larger than 1100mm x 740mm (Flange Diameter x Outer Reel Width) and weigh no more than 450 kg, including the cable.

ordering information

Fibre	Part Number	Description
OS2	FAAC912-24-4K	OS2 12 Fibre Indoor-Outdoor Cable, EuroClass Cca-s1a-d1-a1, 900µm Buffered, 4km reel
	FAAC924-24-4K	OS2 24 Fibre Indoor-Outdoor Cable, EuroClass Cca-s1a-d1-a1, 900µm Buffered, 4km reel
OM4	FAACZ12-24-4K	OM4 12 Fibre Indoor-Outdoor Cable, EuroClass Cca-s1a-d1-a1, 900µm Buffered, 4km reel
	FAACZ24-24-4K	OM4 24 Fibre Indoor-Outdoor Cable, EuroClass Cca-s1a-d1-a1, 900µm Buffered, 4km reel

Unit of Measure (UOM) is Meters.
 Minimum Ordering Quantity (MOQ) is 4000m.
 Minimum Ordering Increment (MOI) is 4000m.
 4km reel contains 4000m with tolerance -0/+10m.

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