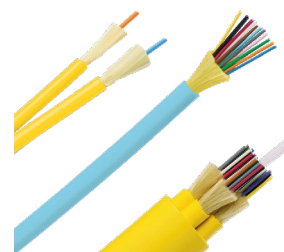


Opti-Core™ Fibre Optic Indoor Cable, 2 to 96-Fibres, EuroClass Eca and Dca for EMEA

specifications

This family of fibre optic distribution and interconnect cables shall be suitable for indoor applications, complying with IEC standards for low smoke / zero halogen (LSZH) and labeled as EuroClass Eca or Dca. It shall have options for singlemode (OS2) or multimode fibres (OM3 and OM4) to support 10 and 40 Gb/s network transmission and beyond. The optical fibres shall be tight-buffered for easy termination with field-installable connectors. Distribution cables shall contain up to 96 fibres. Interconnect cable shall consist of two single-fibre cables joined together by a web (duplex zipcord).



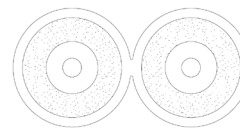
standards and flame rating

ISO 11801 (Generic Cabling)	EN 50575 (Cable reaction to fire)
EN 50173 (Generic Cabling)	IEC 60332-1-2 and IEC 60332-3-24 (Flame retardant)
IEC 60794-2 (Optical Fibre Cables, Indoor)	IEC 61034 and IEC 60754-2 (Low Smoke Zero Halogen)
RoHS Compliant	

cable construction (all-dielectric)

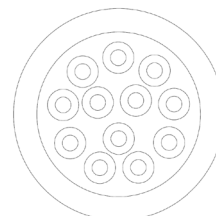
2-Fibre Interconnect Cable

Zipcord cable: each 900µm tight buffered fibre is protected by aramid yarns inside a 2.9 mm round jacket. The two jackets are linked together with a thin web between.



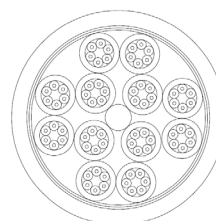
4 to 24 Fibre Distribution Cable

900µm tight buffered fibres are protected by aramid yarns and an outer jacket.



48 to 96 Fibre Distribution Cable with sub-units

8 to 16 sub-units x 6 fibres each. Sub-unit design has a central strength member made of fibreglass reinforced plastic (FRP). Each sub-unit contains six 900µm tight buffered fibres protected by aramid yarns and a jacket. Sub-units are surrounded by outer jacket.



Jacket Color

For all fibre counts, outer jacket is aqua for OM3 and OM4, yellow for OS2. For the sub-unitized construction, sub-unit jackets are aqua for OM4, yellow for OS2.

Cross sections are representative and not to scale.

Opti-Core™ Fibre Optic Indoor Cable, 2 to 96-Fibres, EuroClass Eca and Dca for EMEA

key features and benefits

Flame retardant LSZH jacket	Provides life safety benefits; meets industry standards for smoke and flame and is well-suited for indoor installations
900µm tight buffered fibre	Easy to handle, strip and connectorize
Sub-unit design for higher counts	Simplifies fibre identification, provides easy access and routing of the fibres, and increases cable durability with a dielectric central strength member
Highest quality OM4 laser optimized fibre	Supports 10 and 40 Gb/s applications while maintaining compatibility with existing 50µm multimode systems

applications

- For indoor use in intra-building backbone and horizontal installations.
- 2-fibre zipcord interconnect cable is used within buildings to extend or interconnect network segments for applications such as high-end workstations, secure networks and zone cabling.
- Interconnect cable can also be used for patch cords and jumpers.
- Distribution cable is used within buildings to provide high-density connectivity and ease of installation. Applications include data centres, intra-building backbones and routing between telecommunications rooms.
- Distribution cable can be installed in ducts and on trays.

Physical and Mechanical Properties (IEC 60794-1-21/22)

	Zipcord	Distribution					Sub-Unitized Distribution		
Fiber Count	2	4	6	8	12	24	48	72	96
Nominal Outside Diameter (mm)	2.9 x 5.8	5.0	5.5	6.0	6.5	8.5	14.5	20.0	19.0
Minimum Bend Radius	Installation / Short Term / With Load: 20X Cable Outside Diameter								
	Operation / Long Term / No Load: 10X Cable Outside Diameter								
Approximate Weight (kg/km)	15	26	30	35	45	65	230	375	325
Tensile strength, Installation / Short Term (N)	600	1000	1000	1000	1200	1500	4200	5400	6600
Tensile strength, Operation / Long Term (N)	300	280	280	280	340	400	1400	1800	2200
Compressive strength / Crush (N/10cm)	500	3000							
Operating Temperature	-10C to +60C								

optical properties: maximum attenuation (cabled)

OS2 Singlemode (ITU-T G.657.A1)	0.4 dB/km @1310 nm, 0.4 dB/km @1550 nm
OM3 & OM4 Multimode	3.5 dB/km @850 nm, 1.5 dB/km @1300 nm

Opti-Core™ Fibre Optic Indoor Cable, 2 to 96-Fibres, EuroClass Eca and Dca 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	Aqua	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.

ordering information

*Example: FADC912-37, OS2 12 Fibre Indoor Distribution Cable, Euroclass Dca, 900µm Buffered Fibres

Character	1	2	3	4	5	6	7	8	9	10
Example	F	A	D	C	9	1	2	-	3	7

1 and 2 – Fibre Product, Region

FA = Fibre Cable, CPR for EMEA

3 – Cable Construction

- I = Interconnect Duplex Zipcord (2-fibres, only Eca)
- D = Indoor Distribution (4-24 fibres, only Dca)
- E = Indoor Distribution with Sub-Units (48-96 fibres, only Eca with OS2 or OM4)

4 – Flame Rating

C = Euroclass Rated

5 – Fibre Type

- 9 = Singlemode OS2
- X = Multimode OM3
- Z = Multimode OM4

6 and 7 – Fibre Count

- 02 = 2-fibre
- 04 = 4-fibre
- 06 = 6-fibre
- 08 = 8-fibre
- 12 = 12-fibre
- 24 = 24-fibre
- 48 = 48-fibre
- 72 = 72-fibre
- 96 = 96-fibre

8 – Dash

9 and 10 – Euroclass Code

- 37 = Dca-s2-d2-a1
- 40 = Eca

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