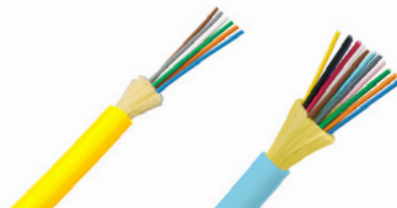


Opti-Core® Fiber Optic Distribution Cable Indoor, LSZH

specifications

The fiber cable shall contain 6, 12, or 24 fibers and have 900µm tight-buffered construction. The cable shall comply with common industry standards for indoor applications. To meet indoor safety requirements, the cable shall use materials that comply with IEC standards for low smoke and zero halogen content. The cable shall have options for singlemode (OS2) or multimode fibers (OM3, OM4) to support 10 Gb/s network transmission.



applications

- For intra-building use as backbone cabling between telecommunication rooms or as horizontal cabling to support zone distribution and high-end workstations
- For confined or crowded indoor spaces that require the additional safety of low smoke and flame retardance without the use of halogenated materials
- Suitable for risers, ducts, and cable trays
- Supports network transmission speeds up to 10 Gb/s for link lengths up to 300m for OM3 and up to 550m for OM4 with an 850nm source per IEEE 802.3ae 10 GbE standard

standards and flame rating

- ✓ ANSI/ICEA S-83-596 (Indoor Fiber Cable)
- ✓ Telcordia GR-409 (Indoor Fiber Optic Cable)
- ✓ IEC 60332-3-24 Category C (Vertical Flame Spread)
- ✓ IEC 61034 (Low Smoke)
- ✓ IEC 60754-1 and 2 (Halogen Free)
- ✓ RoHS Compliant

key features and benefits

Flame retardant LSZH jacket:	Provides life safety benefits, is halogen free and meets industry standards for low smoke generation
900µm tight buffered fiber:	Easy to handle, strip, and connectorize
Small cable size:	Allows for installation in space-constrained pathways
Highest quality OM3 and OM4 laser optimized fiber:	Supports 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems

optical properties: maximum attenuation

OS2 singlemode (ITU-T G.652.D):	0.7dB/km @ 1310nm, 0.7dB/km @ 1550nm
OM3 multimode:	3.5dB/km @ 850nm, 1.5dB/km @ 1300nm
OM4 multimode:	3.5dB/km @ 850nm, 1.5dB/km @ 1300nm

physical & mechanical properties

Fiber count:	6	12	24
			
Cable construction:	900µm tight buffered fibers with aramid strength members in an outer jacket (aqua for OM3 and OM4, yellow for OS2)		
Cable outside diameter, in. (mm):	0.21 (5.3)	0.24 (6.1)	0.32 (8.1)
Bend radius (Installation/short term), in. (cm):	4.2 (10.6)	4.8 (12.2)	6.4 (16.2)
Bend radius (Operation/long term), in. (cm):	2.1 (5.3)	2.4 (6.1)	3.2 (8.1)
Approximate cable weight, lb./kft (kg/km):	22 (29)	31 (34)	45 (67)
Tensile strength (Installation/short term), lb. (N):	150 (660)	150 (660)	300 (1320)
Tensile strength (Operation/long term), lb. (N):	45 (200)	45 (200)	90 (396)
Temperature range:	Storage: -40°F to 158°F (-40°C to 70°C) Installation: 14°F to 140°F (-10°C to 60°C) Operation: -40°F to 176°F (-40°C to 80°C)		

Opti-Core® Fiber Optic Distribution Cable Indoor, LSZH

fiber color sequence (TIA-598)

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

Fibers 13 through 24 repeat this color sequence and have a black stripe.

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

For more information visit us at www.panduit.com.

ordering information

Fiber Type	Part Number	Part Description
50µm OM3	FODLX06	50µm OM3 6 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
	FODLX12	50µm OM3 12 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
	FODLX24	50µm OM3 24 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
50µm OM4	FODLZ06	50µm OM4 6 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
	FODLZ12	50µm OM4 12 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
	FODLZ24	50µm OM4 24 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
9µm OS2	FSDL906	9µm OS2 6 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
	FSDL912	9µm OS2 12 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers
	FSDL924	9µm OS2 24 Fiber Indoor Distribution Cable, LSZH, 900µm Buffered Fibers

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