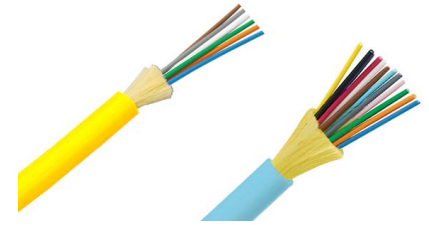


# Opti-Core® Fiber Optic Distribution Cable Indoor, LSZH

## 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.



## 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   |

## 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 300 meters for OM3 and up to 550 meters for OM4 with an 850nm source per IEEE 802.3ae 10 GbE standard

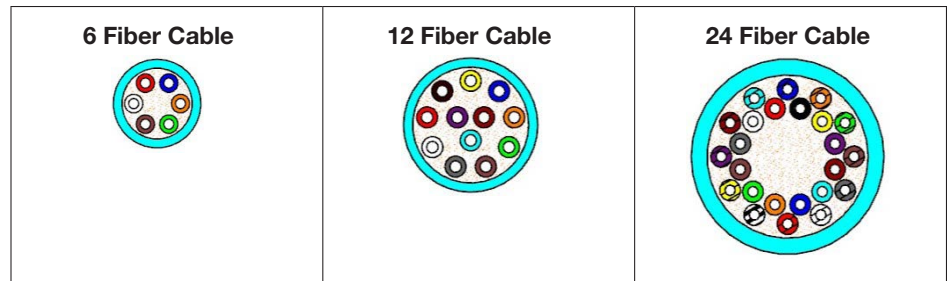
## fiber color sequence (TIA-598)

| 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.

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# Opti-Core® Fiber Optic Distribution Cable Indoor, LSZH



## PHYSICAL AND MECHANICAL PROPERTIES

|   |  |   |                      |
|---|--|---|----------------------|
| <b>Cable Construction</b>                           | 900µm tight buffered fibers with aramid strength members in an outer jacket (aqua for OM3 and OM4, yellow for OS2) |   |                      |
| <b>Outside Diameter (Nominal)</b>                   | 5.2mm (0.21 in.)   | 6.2mm (0.24 in.)  | 8.1mm (0.32 in.)     |
| <b>Bend Radius (Installation / Short Term)</b>      | 10.4cm (4.1 in.)   | 12.4cm (4.9 in.)  | 16.3cm (6.4 in.)     |
| <b>Bend Radius (Operation / Long Term)</b>          | 7.6cm (3.0 in.)  | 9.3cm (3.7 in.)   | 12.2cm (4.8 in.)     |
| <b>Weight</b>                                       | 29kg/km (22 lb./kft)   | 34kg/km (31 lb./kft)  | 67kg/km (45 lb./kft) |
| <b>Tensile Strength (Installation / Short Term)</b> | 660 N (150 lb.)  | 660 N (150 lb.)   | 1320 N (300 lb.)     |
| <b>Tensile Strength (Operation / Long Term)</b>     | 200 N (45 lb.)   | 200 N (45 lb.)  | 396 N (90 lb.)       |
| <b>Temperature Range</b>                            | Storage:<br>Installation:<br>Operation:  | -40°C to 80°C (-40°F to 176°F)<br>-10°C to 50°C (14°F to +122°F)<br>-20°C to 80°C (-4°F to 176°F) |                      |

## OPTICAL PROPERTIES: MAXIMUM ATTENUATION

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| <b>OS2 Singlemode (ITU-T G.652.D)</b> | 0.7dB/km @1310nm, 0.7dB/km @ 1550nm |
| <b>OM3 Multimode</b>                  | 3.5dB/km @ 850nm, 1.5dB/km @ 1300nm |
| <b>OM4 Multimode</b>                  | 3.5dB/km @ 850nm, 1.5dB/km @ 1300nm |

## 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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