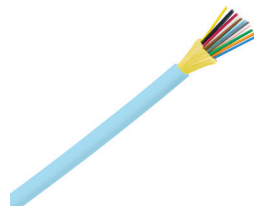


technical information

Panduit™ Opti-Core™ Fiber Optic Indoor Cable is an integral part of the Panduit end-to-end fiber optic solution, designed to support today's data needs while meeting tomorrow's ever-advancing network requirements. Standard RoHS compliant singlemode and multimode indoor cable is available in fiber counts from 2 to 48 fibers. 2 and 4-fiber interconnect cable is used within buildings to extend or interconnect network segments. The small cable size allows for installation in space-restricted areas for applications that include horizontal cabling systems in support of high-end workstations, secure networks, and zone cabling. Interconnect cable can also be used for patch cords and jumpers. 6 thru 48-fiber distribution cable is used within buildings to provide high-density connectivity and ease of installation. Applications include intra-building backbones, routing between telecommunications rooms, and connectorized cables in riser and low smoke zero halogen environments. Distribution cable in 6 and 12-fiber designs have 900µm tight-buffered fibers surrounded by aramid yarn strength members. Larger distribution cables (24 fibers and greater) feature a sub-unit design that simplifies fiber identification, provides easy access and routing of the fibers and increases cable durability with a dielectric central strength member. Opti-Core™ Fiber Optic Indoor Cable features the highest quality OM3 laser optimized fiber to support 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems. Fiber Optic Indoor Cable includes 300 OM3 Cable for 300 meter reach requirements and OM4 Cable for 550 meter reach requirements. 150 OM2+ Cable for 150 meter reach requirements and OM4 Cable for 550 meter reach requirements.



application

For indoor use in intrabuilding backbone and horizontal installations.

standards

| | |
|-----------------------|--------------------------|
| IEC 60754-2 UL1666 | IEC 60332-1 IEC 61034 |
|-----------------------|--------------------------|

construction

| | |
|-------------------------|--|
| Central strength member | FRP (for fiber count > 24F strand sub-unit structure) |
| Wrapping | Polyester (for fiber count >24F strand sub-unit structure) |
| Inner sheath | Subunit sheath is PVC or LSZH (for fiber count >24F) |
| Outer sheath | LSZH or PVC Riser |

mechanical properties

| | |
|-------------------------------|---|
| Tensile strength (<12 fibers) | Installation: 660 N Long Term: 165 N |
| Tensile strength (>12 Fibers) | Installation: 1300 N Long Term: 330 N |
| Compressive strength (crush) | 350 N (2 fiber) 500 N (4F-12F, 24F singlepass) 1000 N (>24 strand sub-unit structure) |
| Impact | 2.9 Nm |
| Torsion | 100 N, +/- 180°, 10 cycles |
| Kink | R = 20 x OD |
| Temperature range | Shipping and Storage: -40°C to +70°C Installation: -20°C to +70°C Operation: -20°C to +70°C |

Opti-Core™ Fiber Optic Indoor Cable – Asia Pacific

physical properties

| Fiber Count | Cable O.D. (mm) | Installation Bend Radius (mm) | Long-Term Bend Radius (mm) | Cable Weight (kg/km) |
|-------------|-----------------|-------------------------------|----------------------------|----------------------|
| 2 | 2.9 | 58 | 29 | 14(LSZH)/14(Riser) |
| 4 | 4.8 | 96 | 48 | 20 (LSZH)/19(Riser) |
| 6 | 4.8 | 96 | 48 | 22(LSZH)/21(Riser) |
| 8 | 4.8 | 108 | 54 | 27(LSZH)/26(Riser) |
| 12 | 6.2 | 124 | 62 | 33(LSZH)/32(Riser) |
| 24 | 8.5 | 290 | 145 | 60(LSZH)/60(Riser) |
| 48 | 18 | 360 | 180 | 245(LSZH)/237(Riser) |

fiber color code 4 to 24 fibers

| | | |
|------------------|----------|-----------|
| Fiber color code | 1 Blue | 7 Red |
| | 2 Orange | 8 Black |
| | 3 Green | 9 Yellow |
| | 4 Brown | 10 Violet |
| | 5 Grey | 11 Pink |
| | 6 White | 12 Aqua |

ordering information

Example: FLDRZ12Y- Fiber, Indoor Unarmored, Riser Rated, OM4, 12-fiber

| | | | | | | | | |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Character | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Example | F | L | D | R | Z | 1 | 2 | Y |

1 and 2 – Fiber Product

FL = Fiber OM1, OM2, OS2, OM3, OM4

3 – Cable Construction

I = Interconnect cable (2 & 4 fiber only)
D = Indoor Distribution (6-48 fibers)

4 – Flame Rating

R - Riser
L - Low Smoke Zero Halogen

5 – Fiber Type

9 = Singlemode (OS2 ITU G.652.D)
6 = Multimode (OM1)
5 = Multimode (OM2)
X = Multimode (OM3)
Z = Multimode (OM4)

6 and 7 – Fiber Count

02 = 2-Fiber
04 = 4-Fiber
06 = 6-Fiber
08 = 8-Fiber
12 = 12-Fiber
24 = 24-Fiber
48 = 48-Fiber

8 – RoHS Compliant

Y-Yes

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