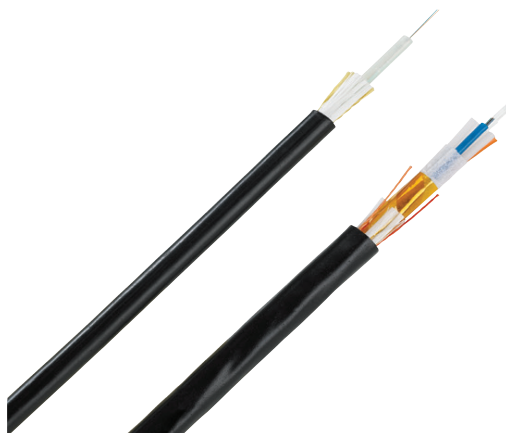


technical information

Panduit™ Opti-Core™ Indoor/Outdoor All-Dielectric 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. This gel-filled cable provides water-blocking, high density, and easy installation in transitional aerial and duct applications and entrance facilities. Opti-Core™ Fiber Optic Indoor/Outdoor Riser (OFNR) Rated Cable is tested in accordance with Telcordia GR-20, Issue 2, GR-409 and with relevant EIA/TIA-455 series FOTPs for fiber optic cable. Opti-Core™ Fiber Optic Indoor/Outdoor Low Smoke Zero Halogen (LSZH) Rated Cable meets the IEC 60794-1 standard. This cable is available with OM3, OM4 or Singlemode fiber to support 10 Gb/s applications and beyond. OM3 cable supports 300 meter reach requirements, while OM4 supports 550 meter reach requirements. This RoHS compliant cable is available with 4, 6, or 12-fibers as a "central loose tube" design and 24 or 48-fibers as a "stranded loose tube" design.



application

Used for aerial duct and duct applications and features a non-metallic construction that eliminates the need to ground or bond.

standards

Telcordia GR-20 Issue 2
GR-409
EIA/TIA-455

IEC 60794-1
FOTPs series

construction

Central strength member (24 and 48 fiber cables)	Fiberglass Reinforced Plastic (FRP)
Water blocking	4 to 12-fibers: Gel-filled tube, water-blocking glass yarn 24 and 48-fibers: Gel-filled tubes, water-swellaable core wrap
Outer sheath	LSZH or PVC Riser

Opti-Core™ Fiber Optic Indoor/Outdoor All Dielectric Cable - Asia Pacific

mechanical properties

Tensile strength (up to 12 fibers)	Installation: 1340 N Long Term: 400 N
Tensile strength (>12 Fibers)	Installation: 2700 N Long Term: 810 N
Compressive strength (crush)	2000 N up to 12 fibers 2200 N greater than 12 fibers
Impact	4.4 Nm
Torsion	100 N, +/- 180°, 10 cycles
Kink	R = 20 x Cable diameter
Temperature range	Shipping and Storage: -40 °C to +75 °C Installation: -30 °C to +60 °C Operation: -40 °C to +70 °C

physical properties

Fiber Count	Cable Diameter (mm)	Installation Bend Radius (mm)	Long-Term Bend Radius (mm)	Cable Weight (kg/km)
4	8.5	170	85	74(LSZH) / 71(Riser)
6	8.5	170	85	74(LSZH) / 71(Riser)
12	8.5	170	85	74(LSZH) / 71(Riser)
24	10.8	216	108	113(LSZH) / 110(Riser)
48	10.8	216	108	113(LSZH) / 110(Riser)

fiber color code

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

Opti-Core™ Fiber Optic Indoor/Outdoor All Dielectric Cable - Asia Pacific

ordering information

Example: FLCRZ12Y- Fiber, Indoor/Outdoor Unarmored, Central Tube, Riser rated, OM4, 12-Fiber

Character	1	2	3	4	5	6	7	8
Example	F	L	C	R	Z	1	2	Y

1 and 2 – Fiber Product

FL = Fiber Cable, APAC

3 – Cable Construction

C = I/O Central Tube
(up to 12 fibers)

N = I/O Stranded Tube
(24 fiber & greater)

4 – Flame Rating

R = Riser

L = Low Smoke Zero Halogen

5 – Fiber Type

9 = Singlemode (OS2 ITU G.652.D)

X = Multimode (OM3)

Z = Multimode (OM4)

6 and 7 – Fiber Count

04 = 4-Fiber

06 = 6-Fiber

12 = 12-Fiber

24 = 24-Fiber

48 = 48-Fiber

8 – RoHs Compliant

Y = Yes

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

For more information

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Contact Customer Service by email: cs@panduit.com
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