

## 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 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 All-Dielectric 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 All-Dielectric Cable meets the IEC 60794-1 standard. Opti-Core™ Fiber Optic Indoor/Outdoor All-Dielectric Cable features the highest quality OM3 laser optimized fiber to support 10 Gb/s applications while maintaining compatibility with legacy 50µm multimode systems. Fiber Optic Indoor/Outdoor All-Dielectric Cable includes 300 OM3 cable for 300 meter reach requirements and 550 OM4 for 550 meter reach requirements. All standard RoHS compliant multimode and singlemode indoor/outdoor cable is available in 2, 4, 6, 8, and 12-fiber counts as a "central loose tube" design and in 24, 36, and 48-fiber counts in 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
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## construction

Central strength member (48 and 72 fiber cables)	Fiberglass Reinforced Plastic (FRP)
Water blocking	4-12-fiber: Water-blocking glass yarn 24-48-fiber: Water-blocking aramid yarn and tape
Outer sheath	LSZH or PVC Riser

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

## mechanical properties

Tensile strength (<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 OD (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 O.D. (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)
8	8.5	170	85	74(LSZH)/71(Riser)
12	8.5	170	85	74(LSZH)/71(Riser)
24	10.8	216	108	113(LSZH)/10(Riser)
48	10.8	216	108	113(LSZH)/10(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 OM1, OM2, OS2,  
OM3, OM4

### 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)  
6 = Multimode (OM1)  
5 = Multimode (OM2)  
X = Multimode (OM3)  
Z = Multimode (OM4)

### 6 and 7 – Fiber Count

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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