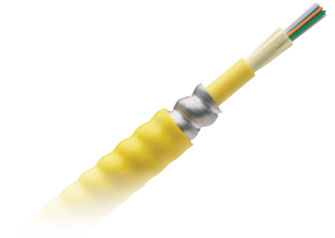


Panduit® Opti-Core® Fiber Optic Indoor Distribution Interlocking Armored Cable

technical information

Panduit® Opti-Core® Fiber Optic Indoor Interlocking Armored 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. Opti-Core® Fiber Optic Indoor Interlocking Armored Cable is used within buildings to provide high-density connectivity and ease of installation. Interlocking aluminum armor eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway for improved design flexibility and lower installed cost. Applications include intra-building backbones, building backbones, and horizontal installations for riser (OFCR), plenum (OFCP), and harsh environments. Opti-Core® 10Gig™ Fiber Optic Indoor Interlocking Armored Cable features the highest quality OM3 and OM4 laser optimized fiber to support 10 Gb/s applications while maintaining compatibility with existing 50µm multimode systems. RoHS compliant singlemode and multimode cable is available in fiber counts from 6 to 144 fibers.



application

Used in intrabuilding backbone, building backbone, and horizontal installations and harsh environments.

standards

UL-1666
NFPA 262
ROHS Compliant

ANSI/ICEA S-83-596
CSA 22.2
Telcordia GR-409

construction

Water blocking	NA
Inner sheath	PVC
Outer sheath	PVC or PVDF

mechanical properties

Mechanical Properties	Riser	Plenum
Tensile strength(<12 fibers)	Installation: 150 lbs. (667 N) Long term: 450 lbs. (200 N)	Installation: 100 lbs. (440 N) Long term: 30 lbs. (132 N)
Tensile strength (>12 fibers)	Installation: 300 lbs. (1335N) Long term: 90 lbs. (400 N)	Installation: 150 lbs. (667 N) Long term: 40 lbs. (200 N)
Compressive strength (crush)	250lb/inches	
Impact	3 at 8.83 N*m	
Temperature range	Storage: -40°F to +185°F (-40°C to 85°C) Operation:- 40°F to +167°F (-40°C to 75°C) Installation: -4°F to +140°F (-20°C to +60°C)	-40°F to 185°F (-40°C to 85°C) -40°F to 167°F (-40°C to 75°C) 32°F to 140°F (-0°C to 60°C)

physical properties – riser

Fiber Count	Cable OD Inches	Installation Bend Radius Inches	Long Term Bend Radius Inches	Cable Weight Lbs./kft
2	0.52	5.2	10.4	121
4	0.55	5.5	11.0	128
6	0.56	5.6	11.2	132
8	0.58	5.8	11.6	135
12	0.59	5.9	11.8	146
24	0.63	6.3	12.6	161
36	0.97	9.8	19.5	398
48	0.96	9.6	19.2	381
72	1.12	11.2	22.4	495
96	1.25	12.5	25.0	632
144	1.28	12.8	25.6	703

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physical properties – plenum

Fiber Count	Cable OD Inches	Installation Bend Radius Inches	Long Term Bend Radius Inches	Cable Weight Lbs./kft
2	0.47	4.5	9.4	84.0
4	0.47	4.5	9.4	87.0
6	0.47	4.7	9.4	87.0
8	0.48	4.8	9.5	91
12	0.51	5.1	10.2	95
24	0.73	7.3	14.6	167
36	0.94	8.0	16.0	380
48	0.94	8.1	16.2	370
72	1.05	9.4	21.3	502
96	1.18	10.9	21.8	642

fiber color code

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

ordering information

*Example: FOPRZ12Y- Fiber, Armored Distribution, Riser Rated, OM4, 12-Fiber

Character	1	2	3	4	5	6	7	8
Example*	F	O	P	R	Z	1	2	Y

1 & 2 – Fiber Product

FS = Fiber – OM1, OM2, OS1

FO = Fiber – OM3, OM4

3 – Cable Construction

P = Indoor Interlocking Armored

4 – Flame Rating

R = Riser

P = Plenum

5 – Fiber Type

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

6 = Multimode (OM1)

5 = Multimode (OM2)

X = Multimode (OM3)

Z = Multimode (OM4)

6 & 7 – Fiber Count

02 = 2-Fiber

04 = 4-Fiber

06 = 6-Fiber

08 = 8-Fiber

12 = 12-Fiber

24 = 24-Fiber

36 = 36-Fiber

48 = 48-Fiber

72 = 72-Fiber

96 = 96-Fiber

1A = 144-Fiber

8 – RoHS

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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