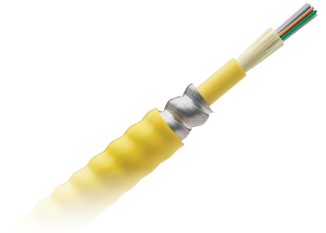


Opti-Core® Fiber Optic Cable, Distribution Interlocking Armored - Americas

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. This 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® Fiber Optic Interlocking Armored Cable features the highest quality singlemode, OM3, OM4 and OM5 laser optimized fiber. RoHS compliant 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
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construction

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 Diameter Inches	Long Term Bend Radius Inches	Installation Bend Radius Inches	Cable Weight Lbs./kft
6	0.56	5.6	11.2	132
12	0.59	5.9	11.8	146
24	0.63	6.3	12.6	161
48	0.96	9.6	19.2	381

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physical properties – plenum

Fiber Count	Cable Diameter Inches	Long Term Bend Radius Inches	Installation Bend Radius Inches	Cable Weight Lbs./kft
6	0.47	4.7	9.4	87.0
12	0.51	5.1	10.2	95
24	0.73	7.3	14.6	167
48	0.94	8.1	16.2	370
72	1.05	9.4	21.3	502
96	1.18	10.9	21.8	642
144	1.22	12.2	24.4	715

optical properties: maximum attenuation (cabled)

Singlemode (ITU-T G.652.D)	0.70 dB/km @ 1310 nm, 0.70 dB/km @ 1550 nm
OM3 Multimode	3.0 dB/km @ 850 nm, 1.5 dB/km @ 1300 nm
OM4 Multimode	3.0 dB/km @ 850 nm, 1.5 dB/km @ 1300 nm
OM5 Multimode	3.0 dB/km @ 850 nm, 1.5 dB/km @ 1300 nm

fiber color code

1 Blue 2 Orange 3 Green	4 Brown 5 Slate 6 White	7 Red 8 Black 9 Yellow	10 Violet 11 Rose 12 Aqua
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Sheath color is yellow for singlemode, aqua for OM3 & OM4, lime green for OM5.

ordering information

*Example: FOPPW24Y = Fiber Cable, Indoor Interlocking Armored, Plenum Rated, OM5, 24 Fibers

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

1 & 2 – Fiber Product

FS = Fiber Cable,
Americas, Singlemode

FO = Fiber Cable,
Americas, Multimode

3 – Cable Construction

P = Indoor Interlocking
Armored

4 – Flame Rating

R = Riser (up to 48 fibers)
P = Plenum

5 – Fiber Type

9 = Singlemode (ITU G.652.D)
X = Multimode OM3 (up to 48 fibers)
Z = Multimode OM4 (up to 48 fibers)
W = Multimode OM5 (up to 24 fibers,
plenum only)

6 & 7 – Fiber Count

06 = 6-Fiber
12 = 12-Fiber
24 = 24-Fiber
48 = 48-Fiber
72 = 72-Fiber
96 = 96-Fiber
1A = 144-Fiber

8 – RoHS

Y = Yes

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FBDS41--WW-ENG
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3/2022