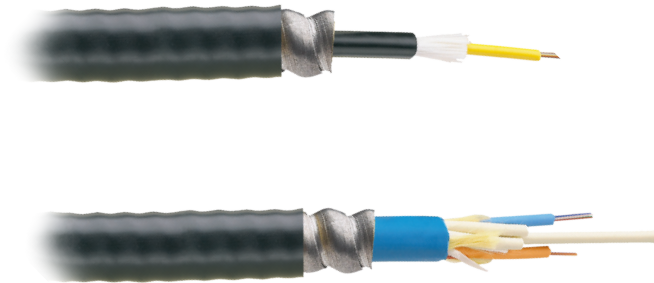


technical information

Panduit® Opti-Core® Fiber Optic Indoor/Outdoor 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. Its cable construction provides UV resistance, water-blocking, high density and easy installation in outdoor applications and entrance facilities. 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. This cable is available with OS2 Singlemode, OM1 Multimode, or 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 6 and 12-fiber counts as a "central loose tube" design and in 24, 48, 72, 96, and 144-fiber counts as a "stranded loose tube" design.



application

For use indoors or outdoors. Can be used for aerial applications if lashed to a messenger wire. Can be direct buried (below the frostline). Interlocking aluminum armor provides very good rodent protection and eliminates the need for inner duct or conduit.

construction

Water-blocking	Yes – Dry
Inner sheath	PVC
Loose Tube	Up to twelve 250µm coated fibers per tube
Armor	Aluminum interlocking armor
Outer sheath	PVC or PVDF, Black

standards

TIA/EIA-568
ROHS Compliant
ANSI/ICEA S-83-596
ANSI/ICEA S-104-696
UL-1666
Telcordia GR-409
Telcordia GR-20
NFPA 262
CSA 22.2 No. 23

mechanical properties

	Riser	Plenum
Tensile strength (up to 12 fibers)	Installation: 300 lbs. (1335 N) Long term: 90 lbs. (400 N)	Installation: 300 lbs. (1335 N) Long term: 90 lbs. (400 N)
Tensile strength (24 or more fibers)	Installation: 600 lbs. (2670 N) Long term: 180 lbs. (800 N)	Installation: 600 lbs. (2670 N) Long term: 180 lbs. (800 N)
Compressive strength (crush)	250 lbs./in.	
Impact	3 at 8.83 N*m	
Torsion	10 cycles	
Kink	IEC 60794-1-2 Method G7	
Temperature range	Storage: -40°F to +158°F (-40°C to +70°C) Operation: -40°F to +158°F (-40°C to +70°C) Installation: +14°F to +140°F (-10°C to +60°C)	-40°F to +158°F (-40°C to +70°C) -40°F to +158°F (-40°C to +70°C) +41°F to +140°F (+5°C to +60°C)

Panduit® Opti-Core® Gel-Free Indoor/Outdoor Interlocking Armored Cable, Americas

physical properties – armored

Fiber Count	Cable Diameter Inches	Long Term Bend Radius Inches	Installation Bend Radius Inches	Cable Weight Lbs/kft
12	0.56	8.4	11.2	160
12	0.56	8.4	11.2	160
24	0.65	6.5	12.9	147
48	0.65	6.5	12.9	147
72	0.68	6.8	13.6	166
96	0.76	7.6	15.2	214

technical properties

Cabled Attenuation (Maximum)	Singlemode	OM1	OM3	OM4
850nm	–	3.5dB /km	3.5dB /km	3.5dB /km
1300nm	–	1.5dB /km	1.5dB /km	1.5dB /km
1310nm	0.40dB /km	–	–	–
1550nm	0.30dB /km	–	–	–
Compliance	ITU-T G.652 (A,B,C,D), IEC 60793-2-50, ISO 11801 OS2, TIA-492-CAAB, Telcordia GR-20	TIA-492AAAA, IEC 60793-2-10	TIA-492AAAB, TIA-492AAAC, TIA-492AAAD, IEC 60793-2-10	TIA-492AAAB, TIA-492AAAC, TIA-492AAAD, IEC 60793-2-10

fiber color code

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

ordering information

Example: FOGZR12Y = OM4 12 Fiber Indoor-Outdoor Interlocking Armored Central Tube Cable, Riser (OFCR), 250µm Fibers

CHARACTER

1	2	3	4	5	6	7	8
F	O	G	R	Z	1	2	Y

EXAMPLE

1 and 2 – Fiber Product, Region

FS = Fiber Cable, Americas, OM1 and OS1
FO = Fiber Cable, Americas, OM3 and OM4

3 – Cable Construction

G = Indoor/Outdoor Interlocking
Armor Central (12 fibers or less)
M = Indoor/Outdoor Interlocking
Armor Stranded (24 fibers or greater)

4 – Flame Rating

R = Riser, OFCR (up to 48 fibers)
P = Plenum, OFCP

5 – Fiber Type

9 = OS2 9/125µm
6 = OM1 62.5/125µm (up to 24 fibers)
X = OM3 50/125µm (up to 24 fibers)
Z = OM4 50/125µm (up to 24 fibers)

6 and 7 – Fiber Product

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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For more information

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