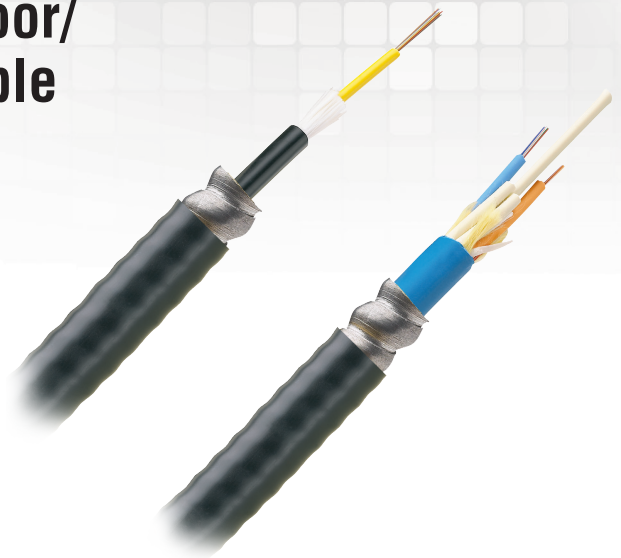


Panduit® Opti-Core® Gel-Free Indoor/Outdoor Interlocking Armored Cable

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. Opti-Core® Fiber Optic Indoor/Outdoor Interlocking Armored Cable provides UV resistance, water-blocking, high density and easy installation in transitional aerial and duct 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. Opti-Core® Fiber Optic Indoor/Outdoor Interlocking Armored Cable is tested in accordance with Telcordia GR-20, Issue 2, GR-409 and EIA/TIA-455 series FOTPs for fiber optic cables. Opti-Core® 10Gig™ Fiber Optic Indoor/Outdoor 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 6 and 12-fiber counts 6 in as a “central loose tube” design and in 24, 36, 48, 60, 72, 96 and 144-fiber counts in a “stranded loose tube” design.



Application

For use indoors or outdoors.

Central loose tube constructions. Interlocking aluminum armor eliminates the need for inner duct or conduit.

Construction

Water blocking	Yes – Dry
Inner sheath	PVC
Outer sheath	PVC/ or PVDF

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. 230

Mechanical Properties

Tensile strength (<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 (>12 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./inch	
Impact	3 at 8.83 N*m	
Torsion	10 cycles	
Kink	IEC 60794-1-2 Method G7	
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)

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Physical Properties—Armored

Fiber Count	Cable OD Inches	Long Term Bend Radius Inches	Installation Bend Radius Inches	Cable Weight Lb/kft
2	.56	8.4	11.2	160
4	.56	8.4	11.2	160
6	.56	8.4	11.2	160
8	.56	8.4	11.2	160
12	.56	8.4	11.2	160
24	.65	6.5	12.9	147
36	.65	6.5	12.9	147
48	.65	6.5	12.9	147
60	.77	7.7	11.6	220
72	.68	6.8	13.6	166
96	.76	7.6	15.2	214

Technical Properties

	Singlemode	OM1	OM2	OM3	OM4
Cabled Attenuation (maximum)					
850nm		3.0dB/km	3.0dB/km	3.0dB/km	3.0dB/km
1300nm		1.0dB/km	1.0dB/km	1.0dB/km	1.0dB/km
1310nm	.7dB/km				
1550nm	.7dB/km				
Core Diameter	8.2µm *				
Cladding Diameter	125µm ± 0.7µm	62.5µm ± 2.5µm	50µm ± 2.5µm	50µm ± 2.5µm	50µm ± 2.5µm
Coating Diameter	245µm ± 10µm	245µm ± 10µm	245µm ± 5µm	245µm ± 5µm	245µm ± 5µm
Overfilled Bandwidth- 850nm (MHz-km)	—	≥200	≥500	≥1500	≥3500
Overfilled Bandwidth- 1300nm (HMz-km)	—	≥500	≥500	≥500	≥500
Effective Modal Bandwidth- 850nm (MHz-km)	—	≥220	≥950	≥2000	≥4700
Compliance	ITU-T G.652 (A,B,C, D), ITU-T G.657.A1, 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	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

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

1 and 2- Fiber Product

FS = Fiber- OM1, OM2, OS1
FO = Fiber- OM3, 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
P- Plenum

5- Fiber Type

9 = OS2 9/125µm
6 = OM1 62.5/125µm
5 = OM2 50/125µm
X = OM3 50/125µm
Z = OM4 50/125µm

6 and 7- Fiber Product

02 = 2-fiber
04 = 4-fiber
06 = 6-fiber
08 = 8-fiber
12 = 12-fiber
24 = 24-fiber
36 = 36-fiber
48 = 48-fiber

6 and 7- Fiber Product (cont.)

60 = 60-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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