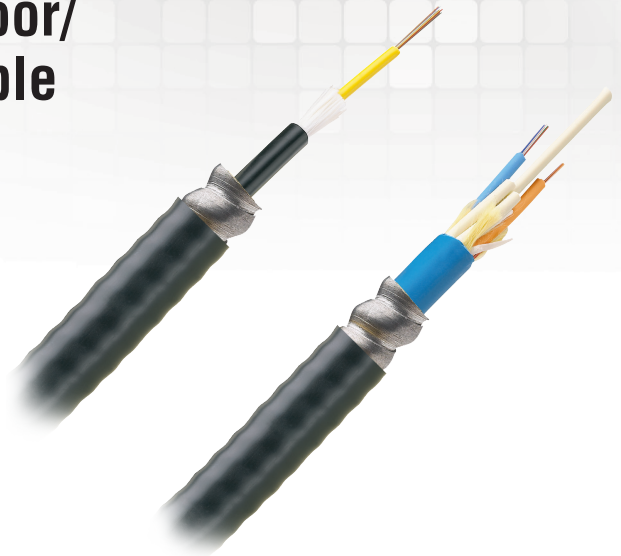


# Panduit® Opti-Core® Gel-Free Indoor/Outdoor Interlocking Armored Cable

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

<b>Water blocking</b>	Yes – Dry
<b>Inner sheath</b>	PVC
<b>Outer sheath</b>	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

<b>Tensile strength (&lt;12 fibers)</b>	Installation: 300 lbs. (1335 N) Long term: 90 lbs. (400 N)	Installation: 300 lbs. (1335 N) Long term: 90 lbs. (400 N)
<b>Tensile strength (&gt;12 fibers)</b>	Installation: 600 lbs. (2670 N) Long term: 180 lbs. (800 N)	Installation: 600 lbs. (2670 N) Long term: 180 lbs. (800 N)
<b>Compressive strength (crush)</b>	250 lbs./inch	
<b>Impact</b>	3 at 8.83 N*m	
<b>Torsion</b>	10 cycles	
<b>Kink</b>	IEC 60794-1-2 Method G7	
<b>Temperature range</b>	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 more information

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