

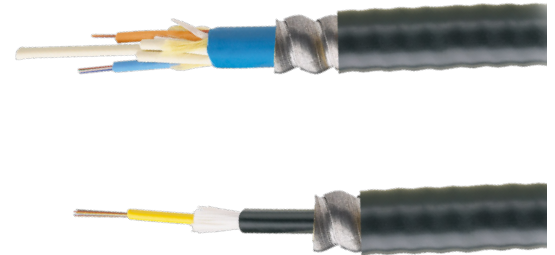
Opti-Core™ Gel-Free Indoor/Outdoor Interlocking Armored Cable

North America and Latin America



technical information

Opti-Core® Fiber Optic Indoor/Outdoor Interlocking Armored Cable shall be integral part of any end-to-end fiber optic solution, designed to support the data needs of today while meeting the ever-advancing network requirements of tomorrow. This cable construction shall provide UV resistance, water-blocking, high density and easy installation in outdoor applications and entrance facilities. Interlocking aluminum armor shall eliminate the need for inner duct or conduit to provide a smaller crush resistant pathway for improved design flexibility and lower installed cost. This cable shall be 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 shall be 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.



applications

The Opti-Core Fiber Optic Indoor/Outdoor Interlocking Armored Cable is for indoor and outdoor use. It can be used for areal applications if lashed to a messenger wire. It can be direct-buried (below the frost-line). Interlocking aluminum armor provides great rodent protection and reduces 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	✓ Telcordia GR-409
✓ RoHS Compliant	✓ Telcordia GR-20
✓ ANSI/ICEA S-83-596	✓ NFPA 262
✓ ANSI/ICEA S-104-696	✓ CSA 22.2 No. 23
✓ UL-1666	

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:	EC 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)

physical properties – armored

Fiber count:	6	12	24	48	72	96
Cable diameter inches:	0.56	0.56	0.65	0.65	0.68	0.76
Long term bend radius inches:	8.4	8.4	6.5	6.5	6.8	7.6
Installation bend radius inches:	11.2	11.2	12.9	12.9	13.6	15.2
Cable weight, lb./kft (kgm/km):	160	160	147	147	166	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	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

ordering information

Example: FOGZRZ12Y = OM4 12 Fiber Indoor-Outdoor Interlocking Armored Central Tube Cable, Riser (OF CR), 250µm Fibers

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

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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