

SPECIFICATIONS

Opti-Core Indoor/Outdoor Armored Cable with tight buffered fibers shall provide water blocking technology, high density, and easy installation in transitional aerial and duct applications and entrance facilities. The 900µm tight-buffered fibers shall provide easy connectorization. Cables with greater than 24 fibers shall provide easy access and routing of the fibers via a sub-unit design. Opti-Core Fiber Optic Indoor/Outdoor Riser (OFCR) and Plenum (OFCP) Rated Cable with tight buffered fibers shall be tested in accordance with Telcordia GR-20, Issue 2, GR-409 and with relevant EIA/TIA-455 series FOTPs for fiber optic cable. All multimode and singlemode cable shall be available in 6-, 12-, and 24-fiber counts as a non-subunitized design while 48-, 72-, and 96-fiber counts (144 for Riser) shall be available in singlemode as a sub-unitized design.

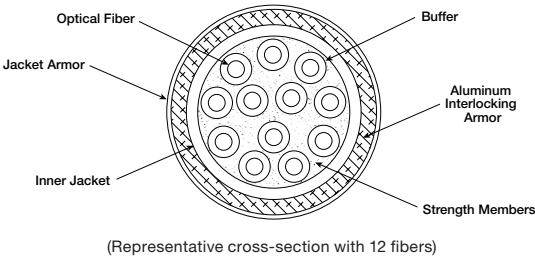


STANDARDS

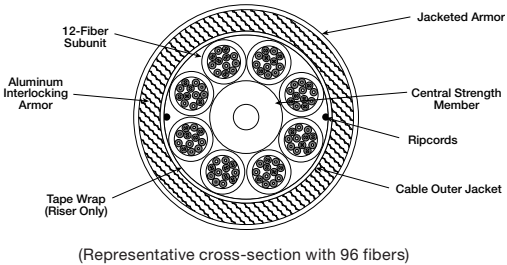
TIA/EIA-568	ANSI/ICEA S-83-596
ANSI/ICEA S-104-696	CSA 22.2
UL-1666	Telcordia GR-409
NFPA 262	Telcordia GR-20
RoHS Compliant	

CONSTRUCTION (ALL-DIELECTRIC)

6 to 24 fibers: 900µm tight buffered fibers, aramid strength members and dry water blocking elements are contained in a flame-retardant inner jacket (black). Aluminum interlocking armor is applied over the inner jacket and covered with a flame rated jacket (black).



48 to 144 fibers: 4 to 12 sub-units with 12 fibers per sub-unit. A glass reinforced (GRP) anti-buckling member is centrally located within the cable. Subunits are wrapped in tape (riser only) and held together with an outer jacket (black) that contains ripcords. Aluminum interlocking armor is applied over the outer jacket and covered with a flame rated jacket (black). Each sub-unit has twelve 900µm tight buffered fibers, aramid strength members and dry water blocking elements in a flame-retardant jacket (black).



APPLICATIONS

Opti-Core Indoor/Outdoor Armored Cable with tight buffered fibers are an 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 provides water blocking technology, high density, and easy installation in transitional aerial and duct applications and entrance facilities. The 900µm tight-buffered fibers offer easy connectorization. The tight-buffered fibers surrounded by aramid yarn strength members combine usability indoors and out. Interlocking aluminum armor can eliminate the need for inner duct or conduit to provide a smaller crush resistant pathway for improved design flexibility and lower installed cost. Cables with greater than 24 fibers feature a sub-unit design that simplifies fiber identification, providing easy access and routing of the fibers. It also increases cable durability with a dielectric central strength member.

Opti-Core™ Fiber Optic Indoor/Outdoor Armored Cable with Tight Buffered Fibers

PHYSICAL AND MECHANICAL PROPERTIES (RISER)

<i>Fiber count:</i>	6	12	24	48	72	96	144
Cable outside diameter:	0.56 in. (14.2mm)	0.59 in. (14.9mm)	0.65 in. (16.5mm)	0.95 in. (24.1mm)	1.10 in. (27.9mm)	1.29 in. (32.7mm)	1.35 in. (34.3mm)
Long-term bend radius:	5.6 in. (14.3cm)	5.9 in. (15.0cm)	6.5 in. (16.6cm)	9.5 in. (24.2cm)	11.0 in. (28.0cm)	12.9 in. (32.8cm)	13.5 in. (34.3cm)
Installation bend radius:	11.2 in. (28.5cm)	11.8 in. (30.0cm)	13.0 in. (33.1cm)	19.0 in. (48.3cm)	22.0 in. (55.9cm)	25.8 in. (65.6cm)	27.0 in. (68.6cm)
Cable weight:	132 lbs./kft. (196 kg/km)	146 lbs./kft. (217 kg/km)	158 lbs./kft. (235 kg/km)	368 lbs./kft. (547 kg/km)	472 lbs./kft. (703 kg/km)	569 lbs./kft. (847 kg/km)	676 lbs./kft. (1006 kg/km)
Tensile strength (installation):	6- to 12-fibers: 100 lbs. 24-fibers: 300 lbs. 48- to 144-fibers (sub-unitized): 600 lbs.						
Tensile strength (long-term):	6- to 12-fibers: 30 lbs. 24-fibers: 90 lbs. 48- to 144-fibers (sub-unitized): 180 lbs.						
Compressive strength:	440 N/cm						
Impact:	Per FOTP 25						
Torsion:	Per FOTP 85						
Kink:	Per FOTP 104						
Temperature range:	Shipping/Storage: -40°F to 158°F (-40°C to 70°C) Installation: 14°F to 140°F (-10°C to 60°C) Operation: -40°F to 158°F (-40°C to 70°C)						

PHYSICAL AND MECHANICAL PROPERTIES (PLENUM)

<i>Fiber count:</i>	6	12	24	48	72	96
Cable outside diameter:	0.44 in. (11.3mm)	0.46 in. (11.8mm)	0.54 in. (13.7mm)	0.94 in. (23.8mm)	1.08 in. (27.43mm)	1.19 in. (30.2mm)
Long-term bend radius:	4.4 in. (11.2cm)	4.7 in. (11.8cm)	5.4 in. (13.7cm)	8.1 in. (20.6cm)	9.4 in. (23.9cm)	10.9 in. (27.7cm)
Installation bend radius:	6.7 in. (16.9cm)	6.9 in. (17.7cm)	8.1 in. (20.6cm)	16.2 in. (41.2cm)	18.8 in. (47.8cm)	21.8 in. (55.4cm)
Cable weight:	73 lbs./kft. (109 kg/km)	84 lbs./kft. (125 kg/km)	112 lbs./kft. (166 kg/km)	243 lbs./kft. (363 kg/km)	383 lbs./kft. (570 kg/km)	511 lbs./kft. (760 kg/km)
Tensile strength (installation):	6- to 12-fibers: 150 lbs. 24-fibers: 300 lbs. 48-fibers (sub-unitized): 400 lbs. 72- to 96-fibers (sub-unitized): 600 lbs.					
Tensile strength (long-term):	6- to 12-fibers: 45 lbs. 24-fibers: 90 lbs. 48-fibers (sub-unitized): 120 lbs. 72- to 96-fibers (sub-unitized): 180 lbs.					
Compressive strength:	440 N/cm					
Impact:	Per FOTP 25					
Torsion:	Per FOTP 85					
Kink:	Per FOTP 104					
Temperature range:	Shipping/Storage: -40°F to 158°F (-40°C to 70°C) Installation: 32°F to 140°F (0°C to 60°C) Operation: -40°F to 158°F (-40°C to 70°C)					

Opti-Core™ Fiber Optic Indoor/Outdoor Armored Cable with Tight Buffered Fibers

OPTICAL PROPERTIES

Max. attenuation:	Singlemode:	0.7dB/km @ 1310nm 0.7dB/km @ 1550nm	Multimode OM1, OM3, & OM4:	3.0dB/km @ 850nm 1.0dB/km @ 1300nm
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FIBER COLOR SEQUENCE

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

Fibers 13 to 24 repeat this sequence and have a black tracer. Fiber 20 is black with a white tracer.

ORDERING INFORMATION LIST

Part Number	Description
FSLP606	62.5µm OM1 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLP612	62.5µm OM1 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLR606	62.5µm OM1 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR612	62.5µm OM1 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FOLPX06	50µm OM3 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FOLPX12	50µm OM3 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FOLPX24	50µm OM3 24 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FOLRX06	50µm OM3 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FOLRX12	50µm OM3 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FOLRX24	50µm OM3 24 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FOLPZ06	50µm OM4 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FOLPZ12	50µm OM4 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FOLPZ24	50µm OM4 24 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FOLRZ06	50µm OM4 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FOLRZ12	50µm OM4 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FOLRZ24	50µm OM4 24 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLP906	9µm OS2 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLP912	9µm OS2 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLP924	9µm OS2 24 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLP948	9µm OS2 48 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLP972	9µm OS2 72 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLP996	9µm OS2 96 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Plenum (OFCP), 900µm Buffered Fibers
FSLR906	9µm OS2 6 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR912	9µm OS2 12 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR924	9µm OS2 24 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR948	9µm OS2 48 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR972	9µm OS2 72 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR996	9µm OS2 96 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers
FSLR91A	9µm OS2 144 Fiber Indoor-Outdoor Armored Tight Buffer Cable, Riser (OFCR), 900µm Buffered Fibers

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