

Opti-Core® Dielectric Conduited Fiber Cable

technical information

Opti-Core® Dielectric Conduited Fiber (DCF) 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. This fiber cable is used within buildings to provide high-density connectivity and ease of installation. Rugged conduit extruded over cable outer jacket eliminates the need for additional channel protection and provides a smaller crush resistant pathway for improved design flexibility and lower installed cost. All-dielectric construction eliminates the need for grounding and bonding, thereby reducing installation time and cost. All Opti-Core® Dielectric Conduited Fiber (DCF) are Riser rated (OFNR) and compliant with Low Smoke Zero Halogen (LSZH) specifications. Opti-Core® Dielectric Conduited Fiber (DCF) fiber types include OM1 and OM2 multimode, OS1/OS2 singlemode and are available in 2, 4, 8, and 12 fiber counts.



application

Designed for use in horizontal installations and backbones within buildings to provide high-density connectivity and ease of installation. Rugged, durable, with crush resistance six times greater than unarmored cable, the need to route through conduit is eliminated.

construction

Cable type:	Dielectric conduited fiber cable
Cable jacket ratings:	Riser, Low Smoke Zero Halogen
Fiber types:	Singlemode: OS1/OS2 9/125µm Multimode: OM1 62.5/125µm OM2 50/125µm
Fiber count:	2, 4, 8, 12
Conduit rating:	C(UL)/UL listed riser UL 2024
Conduit color:	Black

optical properties

Fiber attenuation:	Multimode: OM1 ≤ 3.0 dB/km @ 850nm OM1 ≤ 0.7 dB/km @ 1300nm OM2 ≤ 2.5 dB/km @ 850nm OM2 ≤ 0.8 dB/km @ 1300nm Singlemode: OS1/OS2 ≤ 0.34 dB/km @ 1310nm OS1/OS2 ≤ 0.31 dB/km @ 1383nm OS1/OS2 ≤ 0.22 dB/km @ 1550nm
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standards

Dual-Rated LSZH Inner Cable		Conduit	
NEC article 770:	NEC compliance	NEC article 770:	NEC compliance
UL 1666:	North American flame test	UL 2024:	North American flame test
OFNR-LS (UL) OFN-LS (UL):	North American fire safety listing	C(UL)/UL listed riser UL 2024:	North American fire safety listing
RoHS 2002/95/EC:	Compliant	RoHS 2002/95/EC:	Compliant
ICEA-S-83-596:	Compliant	ICEA-S-83-596:	Compliant
NES-713:	Toxicity index of inner cable/conduit	NES-713:	Toxicity index of inner cable/conduit
MIL-PRF-85045F:	Compliant	MIL-PRF-85045F:	Compliant
IEC-60332-3C:	Test on electric and optical fibre cables under fire conditions – Part 3	EN 50389, Euroclass C:	Limited contribution to fire. Non-combustibility test, gross calorific potential test, single burning item test, ignitability test, radiant panel test
IEC 60754-2:	Acid gas generation of inner jacket		
IEC 61034-2:	Measurement of smoke density of cables burning under defined conditions – Part 2		
GR-409:	Horizontal backbone cable		
TIA/EIA-568-C.1:	Compliant		
ICEA-S-596:	Compliant		
TIA-598-B:	Compliant		

Opti-Core® Dielectric Conduited Fiber Cable

part number

Character	1	2	3	4	5	6	7	8	9	10	11	12
Example	F	S	P	D	5	1	2	—	0	5	0	M

1 and 2 – Fiber Product

FS = Fiber

3 – Cable Construction

P = Dielectric conduited distribution (indoor)

4 – Flame/Smoke Rating

D = Riser, Low Smoke Zero Halogen

5 – Fiber Type

6 = OM1 62.5/125µm

5 = OM2 50/125µm

9 = OS1/OS2 9/125µm

6 and 7 – Fiber Count

02 = 2-fiber

04 = 4-fiber

08 = 8-fiber

12 = 12-fiber

8 – Length

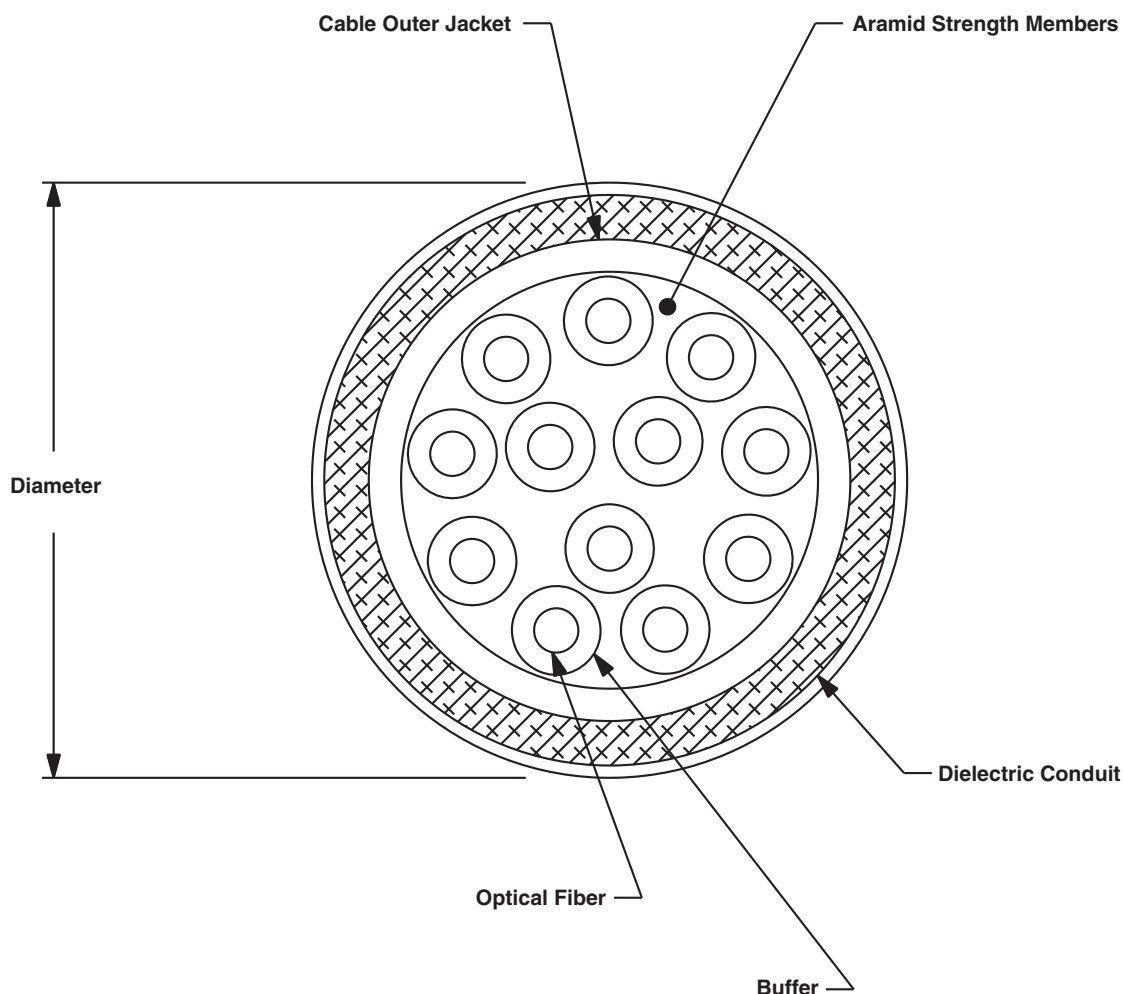
Blank = Length made-to-order

Dash (—) = Fixed Length Reel

9, 10, 11, and 12 – Reel Length

050M - 50 meter reel

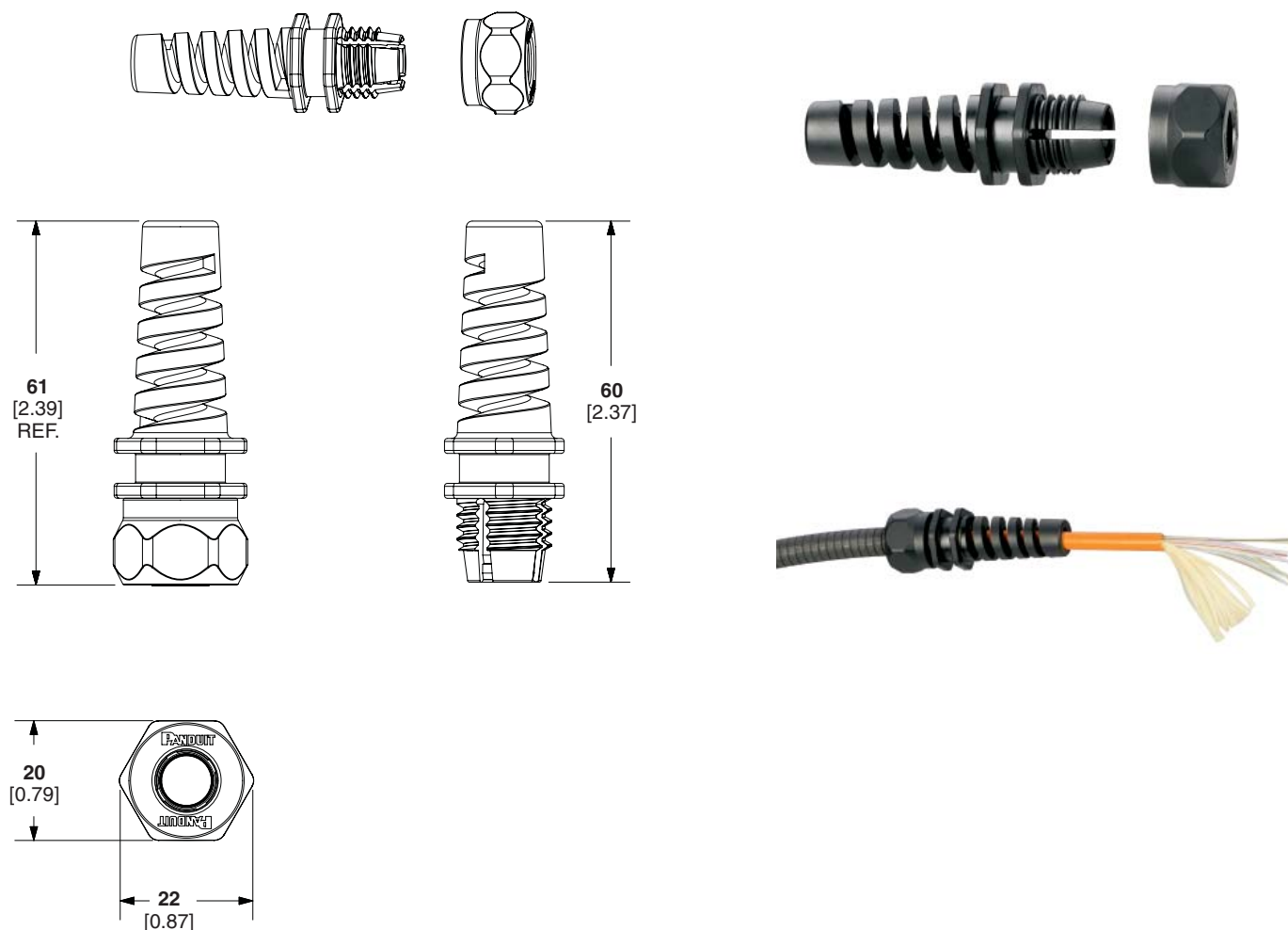
Dielectric Conduited Fiber Cable



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DCF Fiber Strain Relief

The DCF Fiber Strain Relief (FCCSR10BL) is used with the DCF (Dielectric Conduited Fiber Cable) to control the bend radius at the transition of fiber distribution or breakout cables where they exit an armored conduit. The armored conduit fiber cable will be typically installed inside a zone enclosure or at a machine center panel. Installing the DCF Fiber Strain Relief with the DCF fiber cables can prevent any possible reliability issues related to bend radius.



Dimensions are in inches. [Dimensions in brackets are metric].

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