

Opti-Core® IndustrialNet™ PCF Cable (Breakout)

technical information

Opti-Core® IndustrialNet™ Polymer Coated Fiber (PCF) Cables are designed with technicians in mind and are ideal for installation in harsh, industrial environments. Large diameter, high strength, highly durable graded-index PCF cables are suitable for applications that demand high mechanical integrity and reliability, and are easy to prepare and terminate using hand-held tools. Training takes minutes so it's suitable for electricians lacking experience with fiber optic networks. All Opti-Core® IndustrialNet™ Polymer Coated Fiber Cables are factory tested to deliver verified optical performance and reliability for improved network integrity. Provides 1 Gb/s network performance up to 275 meters using OM1 fiber, and up to 550 meters using OM2 fiber per IEEE 802.3z 1 GbE standard. This riser rated cable is also compliant with Low Smoke Zero Halogen requirements, and provides easy installation in utility control rooms, factory automation environments and manufacturing floors. Opti-Core® IndustrialNet™ Polymer Coated Fiber Cables are tested in accordance with Telcordia GR-409-CORE and/or ICEA S-83-596-2010. Available in two and four-fiber breakout cables, or two-fiber interconnect cables, (duplex zipcords). UV-resistance and water-blocking capability makes this cable suitable for use outdoors as well as indoors.



application

Allows installers to install high speed fiber optic permanent links quickly and with minimal training in harsh, industrial environments. Can be used external to the control panel or zone enclosure, and does not require closed pathway or conduit system.

construction

Cable type: Indoor/outdoor breakout
water blocked per: ANSI/TIA-455-828,
FOTP-82

Cable jacket ratings: OFNR and LSZH

Fiber types: Multimode: OM1 62.5/200/230µm
OM2 50/200/230µm

Fiber count: 2 or 4

Jacket color: Black

Sub-unit jacket colors (in order): Blue
Orange
Green
Brown

optical properties

Fiber attenuation: Multimode: OM1 <= 5.0 dB/km @ 850nm
OM1 <= 3.0 dB/km @ 1300nm
OM2 <= 5.0 dB/km @ 850nm
OM2 <= 3.0 dB/km @ 1300nm

physical properties

Cable outside diameter (OD): 8.0mm

Bend radius, minimum (installation): 120 mm

Cable tensile strength (installation): 2358N

Cable weight – 2 fiber cable: 65.0 kg/km

Cable weight – 4 fiber cable: 67.0 kg/km

Sub-unit jacket: 2.2mm

Bend radius, minimum (installed): 80mm

Cable tensile strength (installed): 1179N

environmental properties

Operating temperature: -20°C to 105°C

Storage and shipping temperature: -20°C to 80°C

ROHS 2002/95/EC Compliant

standards

Telcordia GR-409-CORE ICEAS-83-596-2010: Generic requirements for indoor fiber optic cable

IEC-60332-3: Test on electric and optical fibre cables under fire conditions – part 3

IEC 60754-1, 2: Test on gases evolved during combustion of materials from cables – part 1

IEC 61034-2 Measurement of smoke density of cables burning under defined conditions – part 2

ROHS 2002/95/EC Directive of the European parliament and council on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment

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part number

Example: Fiber, Opti-Core® IndustrialNet™ PCF (polymer coated fiber), indoor/outdoor breakout cable, OFNR/LSZH rated, 50/200/230, 04 fibers

| | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|
| Character | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Example | F | I | 2 | D | 2 | 0 | 4 | - | 0 | 5 | 0 | M |

1 – Fiber Product

F = Fiber

2 – Product Type

I = Opti-Core® IndustrialNet™
PCF Cable

3 – Cable Construction

I = Interconnect cable
(duplex zipcord)
2 = Indoor/outdoor breakout cable

4 – Flame/Smoke Rating

D = OFNR (Riser)/Low Smoke
Zero Halogen (LSZH)

5 – Fiber Size

1 = 62.5/200/230 graded-index
polymer coated fiber
2 = 50/200/230 graded-index
polymer coated fiber

6 and 7 – Fiber Count

02 = 2 fibers
04 = 4 fibers

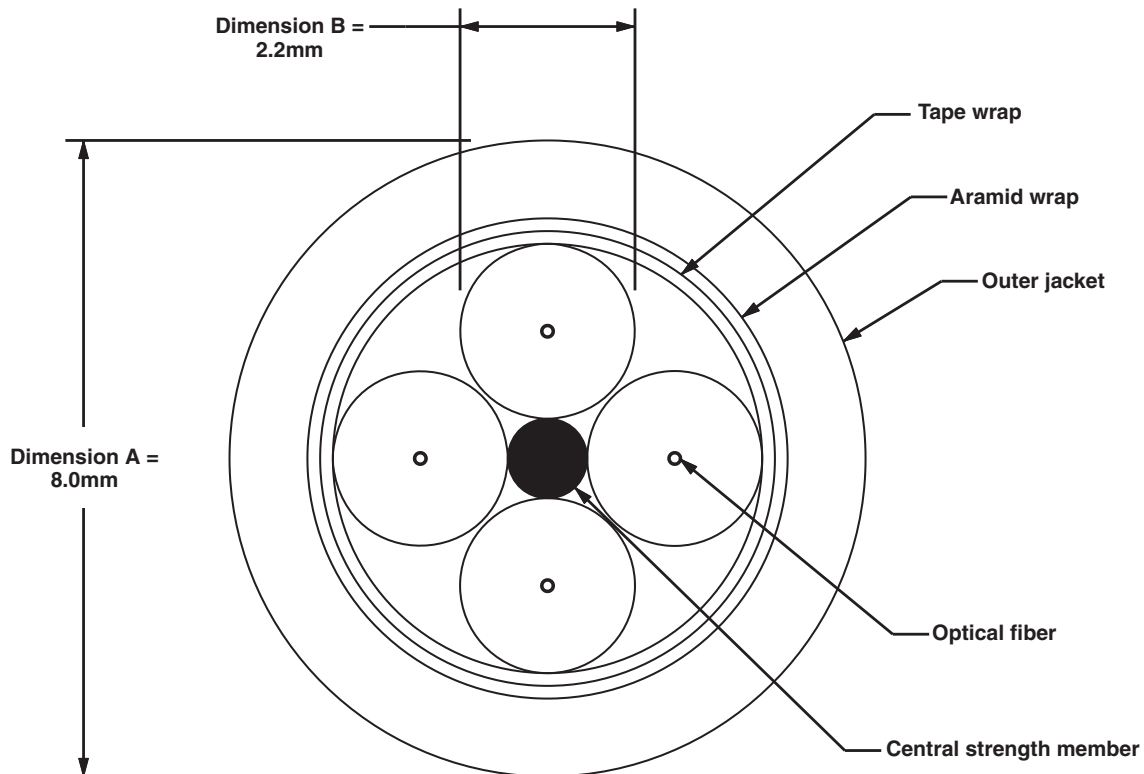
8 – Length

Blank = Length made-to-order
Dash (-) = Fixed Length Reel

9, 10, 11 and 12 – Reel Length

050M – 50 meter reel

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