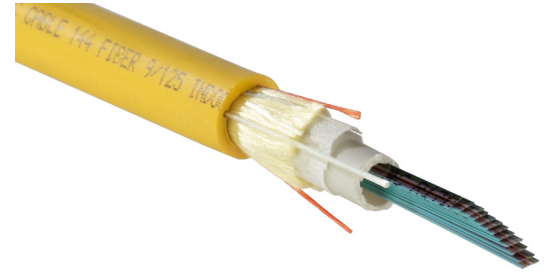# Opti-Core® 144-Fiber Indoor Ribbon Cable, OFNR, LSZH and EuroClass

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specifications

Fibers shall be ribbonized for easy mass fusion splicing and termination with 12-fiber MPO style connectors. Cable shall contain 144 singlemode fibers and be flame rated for indoor spaces that require compliance with riser, low smoke zero halogen, and EuroClass standards. Construction shall be robust, compact and all-dielectric.
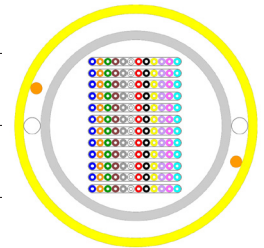
standards and flame rating

✔ Tested per applicable requirements of ISO-IEC 11801 and ICEA S83-596

✔ ITU G.657.A2/B2

✔ TIA 568 and 598

✔ RoHS Compliant

✔ Telcordia GR-409

✔ Ribbon dimensions comply with Telcordia GR-20

Flame ratings: UL 1666 (riser), IEC 60332, IEC 60754, IEC 61034, EuroClass CPR B2ca

construction

Fiber Ribbon	12 color-coded fibers are arranged in a flat ribbon matrix; ribbons are sequentially marked for easy identification
Core Tube	12 ribbons are stacked in a flame-retardant central core tube wrapped in barrier tape
Strength Members	Core is surrounded by aramid strength yarns and two dielectric strength rods
Sheath	Yellow jacket is flame-retardant; 2 ripcords

key features and benefits

Ribbonized fibers	Allow the installer to splice or terminate 12 fibers at a time; reduced installation time; compatible with MPO connectors and pigtails
Compact design	Has smaller diameter and bend radius than non-ribbonized loose tube cables; easier to install
Aramid yarn and dielectric strength rods	Offers excellent strength, durability, and compression resistance
Flame retardant LSZH/OFNR/EuroClass materials	Provides life safety benefits and meets industry standards for EMEA, Asia Pacific, and Americas
G.657.A2/B2 singlemode fibers	Deliver high bit rate data transmission and are bend insensitive

applications

• Suitable for a variety of indoor applications including data centers, colocation facilities and vertical backbones

• 12-fiber ribbons are ideal for mass fusion splicing and MPO multi-fiber connectors

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PHYSICAL AND MECHANICAL PROPERTIES

Cable Diameter		0.48 in. (12.1mm)
Cable Weight		82 lbs./kft (122kg/km)
Minimum Bend Radius (installation / load)		20 x cable diameter
Minimum Bend Radius (long term / no load)		8 x cable diameter
Maximum Tensile Rating		300 lbs. (1335 N)
Temperature Range	**Shipping and Storage:**	-40 to 158°F (-40 to 70°C)
	Installation:	-40 to 140°F (-40 to 60°C)
	Operation:	-4 to 158°F (-20 to 70°C)

OPTICAL PROPERTIES: (Singlemode ITU G.657.A2/B2)

Attenuation, max. 1310 nm (cabled)	0.4 dB/km
Attenuation, max. 1550 nm (cabled)	0.3 dB/km

ribbon fiber color sequence (TIA-598)

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

ordering information

Part Number	Description	Unit of Measure
FFDDBF144-18M	OS2 144 Fiber Indoor Dist. Cable, OFNR-LSZH CPR B2ca-s1a-d0-a1, Flat Ribbon, MT	Meters
FFDCBF144-14F	OS2 144 Fiber Indoor Dist. Cable, LSZH CPR B2ca-s1a-d1-a1, Flat Ribbon, FT	Feet

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

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Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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