Dielectric Double Jacketed Fiber Cable

technical information

Dielectric Double Jacketed Fiber 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. Kevlar re-enforced double jacketing eliminates the need for additional conduit or pathway installation 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 Dielectric Double Jacketed Fiber (DDJ) are Riser rated (OFNR) and compliant with Low Smoke Zero Halogen (LSZH) specifications. Fiber types include OM4 multimode, and OS2 singlemode. Available in 6, 12, and 24 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 greater than unarmored cable, the need to route through conduit is eliminated.

construction

Cable type:	Dielectric, Double Jacket
Cable jacket ratings:	Riser, Low Smoke Zero Halogen
Fiber types:	Singlemode: OS2 9/125µm Multimode: OM4 50/125µm
Fiber count:	6, 12, 24

physical properties

Outside diameter (OD):	.52 in. (13.2mm)
Bend radius:	10.4 in. (26.5cm)
Cable tensile strength (installation):	4450N
Cable tensile strength (installed):	1330N
Cable impact resistance, maximum:	454 kg/f
0-60 fiber cable weight:	174 kg/km

optical properties

Fiber attenuation:	Multimode:	3.0dB/km @ 850nm 1.0dB/km @ 1300nm
	Singlemode:	0.35dB/km @ 1310nm 0.35dB/km @ 1383nm 0.25dB/km @ 1550nm

environmental properties

Operating temperature:	-50°C to +70°C (-58°F to 158°F)
Installation temperature:	-30°C to +60°C (-22°F to 140°F)
Storage and shipping temperature:	-50°C to +70°C (-58°F to 158°F)

standards

UL 1666:	North American flame test
OFNR-LS/FT4 ST1 (UL) OFCR-LS (UL):	North American fire safety listing
ICEA-S-104-696:	Compliant
IEC 60754-2:	Acid gas generation of inner jacket
GR-20:	Horizontal backbone cable

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part number

Character	1	2	3	4	5	6	7
Example	F	S	A	D	5	1	2

1 and 2 – Fiber Product
FS = OS2 Fiber
FO = OM4 Fiber

3 – Cable Construction
J = Dielectric Double Jacketed (indoor/outdoor)
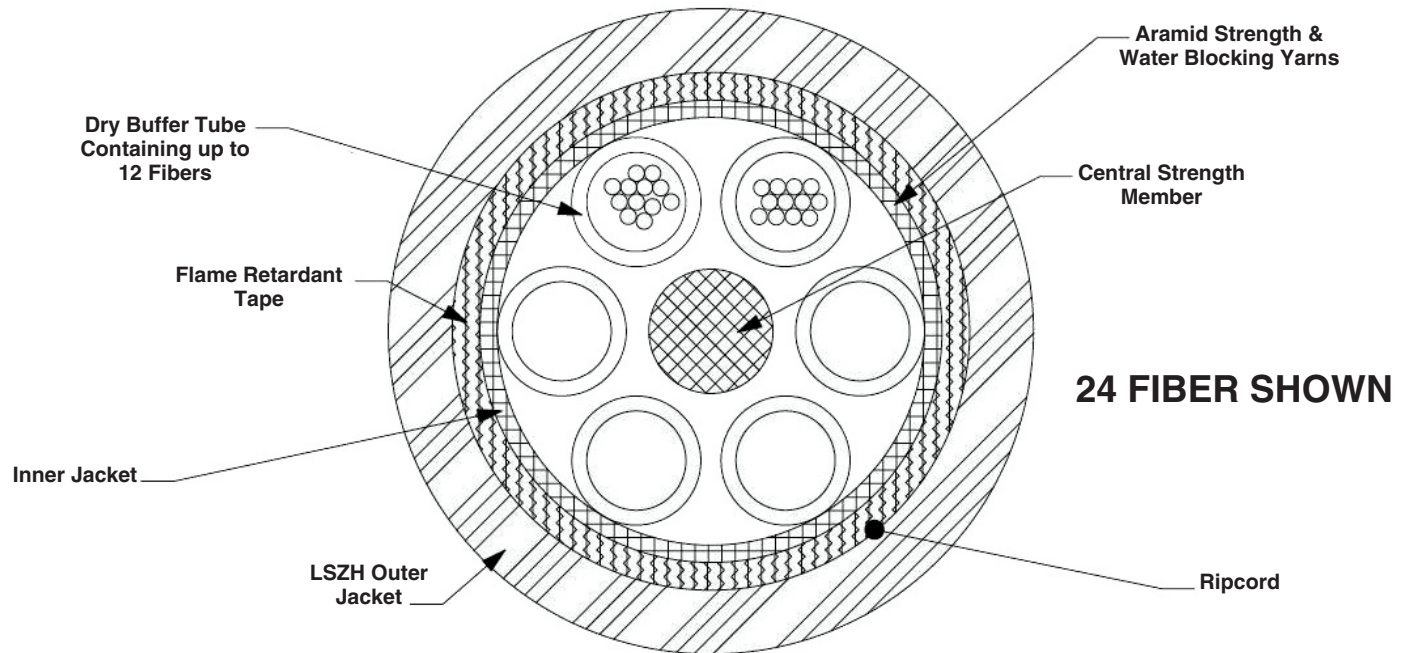
4 – Flame/Smoke Rating
D = Riser, Low Smoke Zero Halogen

5 – Fiber Type
9 = Singlemode (OS2 ITU G.652.D)
Z = Multimode (OM4)

6 and 7 – Fiber Count
06 = 6-fiber
12 = 12-fiber
24 = 24-fiber

Aramid Strength & Water Blocking Yarns

Central Strength Member

Dry Buffer Tube Containing up to 12 Fibers

Flame Retardant Tape

Inner Jacket

LSZH Outer Jacket

Ripcord

24 FIBER SHOWN

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

For more information
Visit us at www.panduit.com
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or by phone: 800.777.3300

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