Dielectric Double Jacketed Fiber Cable, Americas

PANDUIT®
SPECIFICATION SHEET

technical information

Dielectric Double Jacketed Fiber (DDJ) 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. The dry buffer tubes are protected by Kevlar re-enforced double jacketing eliminating the need for additional conduit or pathway installation and provides a smaller, crush resistant cable 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 cables are Riser rated (OFNR) and compliant with Low Smoke Zero Halogen (LSZH) specifications. Fiber types include OM4 multimode available in 6, 12, and 24 fiber counts as well as OS2 singlemode available in 6, 12, 24, 48, and 96 fiber counts.



applications

Designed for Indoor/Outdoor use, the UV-resistant double jacketing tolerates the rigors of environmental exposure allowing the cable to be installed in aerial applications, using a lashing/messenger cable. The rigid design allows DDJ to be installed indoors using J-Hooks, not requiring a defined/solid cable channel. UL1277 also permits installation in direct bury applications, as well as providing tray rating for Industrial environments. Aramid yarns provide additional strength reinforcement, as well as water-blocking.

construction

Cable type:	Dielectric, Double Jacket	
Cable jacket ratings:	Riser, Low Smoke Zero Halogen	
Fiber types:	Singlemode: Multimode:	OS2 9/125µm OM4 50/125µm
Fiber count:	Multimode: Singlemode:	6, 12, & 24 6, 12, 24, 48, & 96

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

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
UL1277 & CSA 22.2 No. 230:	Aerial, Direct Bury, & Tray Rating
IEC 60754-2:	Acid gas generation of inner jacket
GR-20:	Horizontal backbone cable

physical & mechanical properties

Fiber Count:	6	12	24	48	96
Cable outside diameter, in. (mm):	.52 (13.2)	.52 (13.2)	.52 (13.2)	.52 (13.2)	.62 (15.8)
Number of Sub-Unit Tubes/Filler Tubes:	1/4	1/4	2/3	4/1	8/0
Bend Radius Operation/Long Term, in. (cm):	5.2 (13.2)	5.2 (13.2)	5.2 (13.2)	5.2 (13.2)	6.2 (15.8)
Bend Radius Installation / Short Term, in. (cm):	10.4 (26.5)	10.4 (26.5)	10.4 (26.5)	10.4 (26.5)	12.4 (31.5)
Approximate Cable Weight, kg/km:	174kg/km				
Tensile strength (Installation/Short Term), N:	4450				
Tensile strength (Operation/Long Term), N:	1330				
Compressive strength (Crush), N/cm:	220				
Temperature range:	Storage: -50°C to +70°C Installation: -30°C to +60°C Operation: -50°C to +70°C				

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part number

Character	1	2	3	4	5	6	7
Example	F	S	J	D	9	1	2

1 and 2 – Fiber Product
FS = OS2 Fiber Cable, Americas
FO = OM4 Fiber Cable, Americas

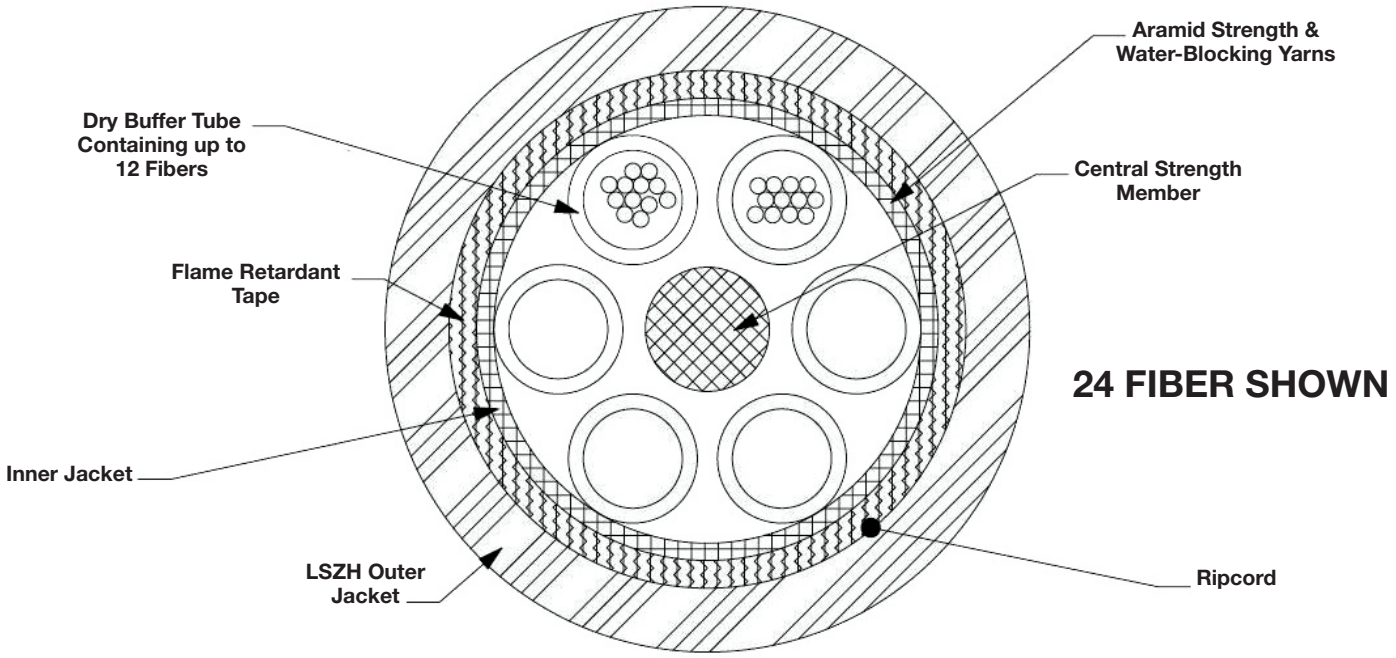
3 – Cable Construction
J = Dielectric Double Jacketed (indoor/outdoor)

4 – Flame/Smoke Rating
D = Riser, Low Smoke Zero Halogen

5 – Fiber Type
9 = Singlemode (OS2 ITU G.652.D)
Z = Multimode (OM4), up to 24 fibers

6 and 7 – Fiber Count
06 = 6-Fiber
12 = 12-Fiber
24 = 24-Fiber
48 = 48-Fiber
96 = 96-Fiber

engineering drawing



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