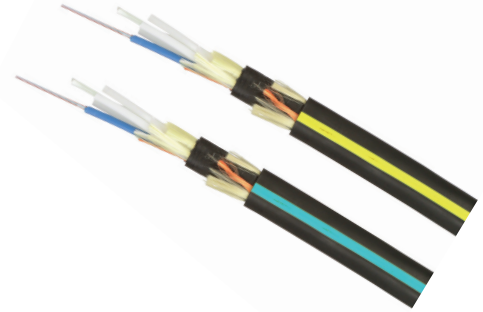


## technical information

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

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

## optical properties

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

## standards

<b>UL 1666:</b>	North American flame test
<b>OFNR-LS/FT4 ST1 (UL) OFCR-LS (UL):</b>	North American fire safety listing
<b>ICEA-S-104-696:</b>	Compliant
<b>UL1277 &amp; CSA 22.2 No. 230:</b>	Aerial, Direct Bury, & Tray Rating
<b>IEC 60754-2:</b>	Acid gas generation of inner jacket
<b>GR-20:</b>	Horizontal backbone cable

## physical & mechanical properties

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

# Dielectric Double Jacketed Fiber Cable, Americas

## 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

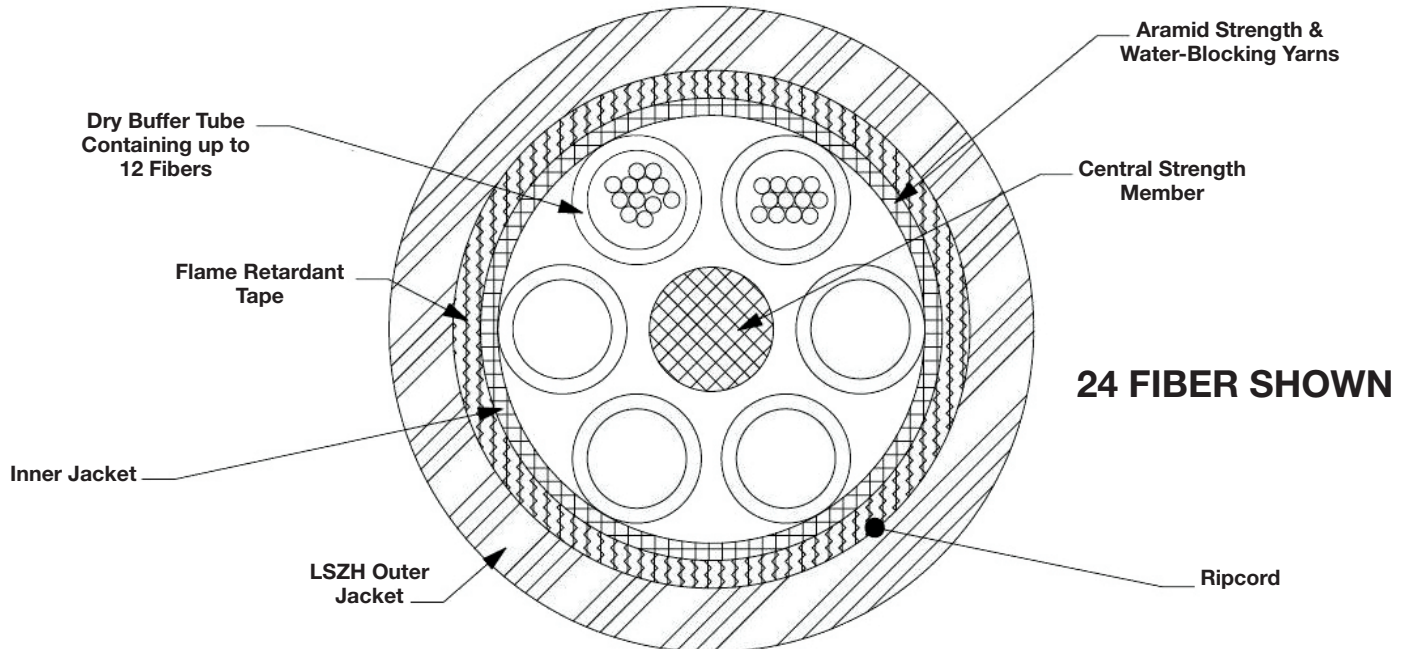
### 5 – Fiber Type

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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