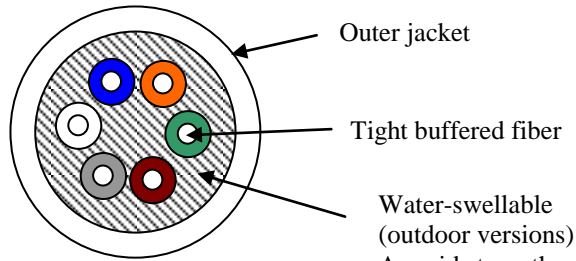
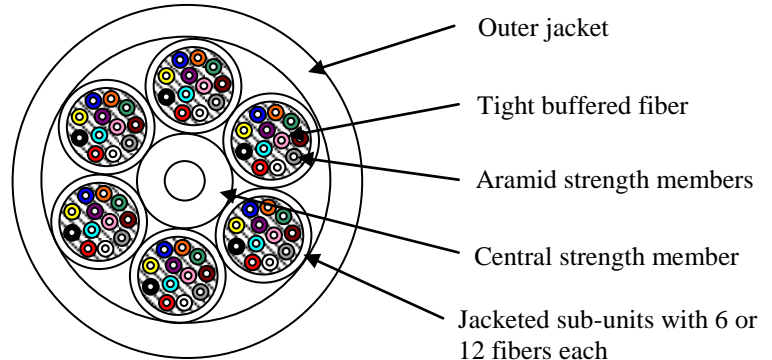


# TECHNICAL DATA INDOOR/OUTDOOR DISTRIBUTION CABLE

Revision Number: 0 Revision Date: 03/01/17



2-24\* Fibers



≥ 24 Fibers

Glass Type	OM1 - 62.5/125µm Multi-Mode	OM2 - 50/125µm Multi-Mode	OM3 - 50/125µm Multi-Mode	OM4 - 50/125µm Multi-Mode	OS2 - Single Mode <sup>2</sup>
Fiber Grade Code (x)	1	2	3	4	S
Legacy Fiber Grade Code (z)	B	A	C	E	W
Jacket <sup>5</sup>	Black	Black	Black	Black	Black
Sub-unit Color	Orange	Orange	Aqua	Erika Violet <sup>4</sup>	Yellow
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL <sup>1</sup> Bandwidth (MHz-km)	200/500	500/500	1500/500	3500/500	-
Min. Laser Bandwidth <sup>3</sup> (MHz-km)	220/-	950/-	2000/-	4700/-	-
Max Attenuation (dB/km)	3.5/1.25	3.5/1.5	3.25/1.2	3.0/1.2	0.5/0.5
1 Gigabit Ethernet Min. Link Length (meters)	275/550	600/600	1000/550	1100/550	5000/-
10 Gigabit Ethernet Min. Link Length (meters)	33/-	82/-	300/-	400/-	10,000/40,000

Fiber	
1	Blue
2	Orange
3	Green
4	Brown
5	Gray
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua
13-24	Like 1-12 with stripes

- OFL – Overfilled Launch
- Low water peak Single-mode suitable for CWDM use complies with ITU G.652c/d + G657-a1
- Effective Modal Bandwidth, determined by RML or DMD performance specifications
- OM4 is available in aqua subunits upon request.
- Other Jacket colors available on request.

Physical Specifications			
<b>Fiber Type:</b>	See table above		
<b>Buffer:</b>	Type: Thermoplastic Tight Buffer Diameter: 900 +35µm/-50µm		
<b>Assembly:</b>	Color coded fibers with strength members		
<b>Strength members:</b>	Aramid		
<b>Sub-unit Jacket</b>	Thermoplastic, same color as outer jacket,		
<b>Material:</b>	numbered		
<b>Jacket Material:</b>	Thermoplastic		
<b>Listing:</b>	See attached tables		
	<b>In/Outdoor OFNR</b>	<b>In/Outdoor LSZH OFNR</b>	<b>In/Outdoor OFNP</b>
<b>Operating Temp</b>	-40 to +70°C	-40 to +70°C	-40 to +70°C
<b>Storage Temp</b>	-40 to +70°C	-40 to +70°C	-40 to +70°C
<b>Installation Temp</b>	-20 to +70°C	-20 to +60°C	-20 to +70°C

# TECHNICAL DATA INDOOR/OUTDOOR DISTRIBUTION CABLE



Revision Number: 0 Revision Date: 03/01/17

## Indoor/Outdoor UL Type OFNR / C(UL) OFN FT4 / Suitable for Direct Burial

Fiber Count	Part Number <sup>5</sup>	Legacy Part Number <sup>6</sup>	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Min. Bend Radius Load in (cm)	Min. Long Term Bend Radius in (cm)
2	FDxD002R9	B9z037T	Black	0.18 (4.6)	12 (17)	300 (1335)	100 (440)	2.8 (7.1)	1.8 (4.5)
4	FDxD004R9	B9z038T	Black	0.20 (5.0)	16 (23)	300 (1335)	100 (440)	3.0 (7.6)	1.7 (4.3)
6	FDxD006R9	B9z039T	Black	0.22 (5.5)	20 (29)	300 (1335)	100 (440)	3.3 (8.3)	1.9 (4.8)
8	FDxD008R9	B9z040T	Black	0.23 (5.9)	22 (32)	300 (1335)	100 (440)	3.5 (8.8)	2.2 (5.5)
12	FDxD012R9	B9z042T	Black	0.26 (6.6)	29 (43)	300 (1335)	100 (440)	3.9 (9.9)	2.3 (5.8)
24*	FDxD024R9	B9z601T	Black	0.32 (8.2)	46 (68)	300 (1335)	100 (440)	4.9 (12.4)	3.3 (8.3)
24	FDxD024RJ	B9z602T	Black	0.50 (12.8)	174 (258)	600 (2670)	200 (880)	7.6 (19.3)	4.6 (11.6)
36	FDxD036RJ	B9z604T	Black	0.65 (16.6)	143 (212)	600 (2670)	200 (880)	9.8 (24.8)	5.9 (14.9)
48	FDxD048RK	B9z606T	Black	0.63 (16.2)	146 (217)	600 (2670)	200 (880)	9.6 (24.3)	6.0 (15.2)
72	FDxD072RK	B9z609T	Black	0.76 (19.3)	218 (324)	600 (2670)	200 (880)	11.4 (28.9)	7.5 (19.0)
96	FDxD096RK	B9z622T	Black	0.93 (23.7)	308 (458)	600 (2670)	200 (880)	14.0 (35.5)	9.0 (22.8)
144	FDxD144RK	B9z619T	Black	1.02 (25.8)	444 (660)	600 (2670)	200 (880)	15.3 (38.8)	10.7 (27.1)

<sup>5</sup> Substitute (x) with Fiber Grade Code

<sup>6</sup> Substitute (z) with Legacy Fiber Grade Code

\* Single jacket design.

## Indoor/Outdoor LSZH UL Type OFNR / C(UL) OFN FT4 / Suitable for Direct Burial

Fiber Count	Part Number <sup>5</sup>	Legacy Part Number <sup>6</sup>	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Min. Bend Radius Load in (cm)	Min. Long Term Bend Radius in (cm)
2	FDxD002L9	B9z100	Black	0.18 (4.6)	13 (19)	300 (1335)	100 (440)	2.8 (7.1)	1.8 (4.5)
4	FDxD004L9	B9z101	Black	0.20 (5.0)	17 (25)	300 (1335)	100 (440)	3.0 (7.6)	2.0 (5.0)
6	FDxD006L9	B9z102	Black	0.22 (5.5)	20 (29)	300 (1335)	100 (440)	3.3 (8.3)	2.2 (5.5)
8	FDxD008L9	B9z103	Black	0.23 (5.9)	23 (34)	300 (1335)	100 (440)	3.5 (8.8)	2.4 (6.0)
12	FDxD012L9	B9z104	Black	0.26 (6.6)	28 (41)	300 (1335)	100 (440)	3.9 (9.9)	2.6 (6.6)
24*	FDxD024L9	B9z107	Black	0.32 (8.2)	42 (62)	600 (2670)	200 (880)	4.9 (12.4)	3.3 (8.3)
36	FDxD036LK	B9z111	Black	0.66 (16.7)	186 (277)	600 (2670)	200 (880)	9.9 (25.1)	6.7 (17.0)
48	FDxD048LK	B9z112	Black	0.63 (16.2)	174 (258)	600 (2670)	200 (880)	9.6 (24.3)	6.4 (16.2)
72	FDxD072LK	B9z114	Black	0.76 (19.3)	222 (330)	600 (2670)	200 (880)	11.4 (28.9)	7.6 (19.3)
96	FDxD096LK	B9z116	Black	0.93 (23.7)	309 (459)	600 (2670)	200 (880)	14.0 (35.5)	9.4 (23.8)
144	FDxD144LK	B9z120	Black	1.079 (27.4)	340 (505)	600 (2670)	200 (880)	16.2 (41.1)	10.8 (27.4)

<sup>5</sup> Substitute (x) with Fiber Grade Code

<sup>6</sup> Substitute (z) with Legacy Fiber Grade Code

\* Single jacket design.

# TECHNICAL DATA INDOOR/OUTDOOR DISTRIBUTION CABLE



Revision Number: 0 Revision Date: 03/01/17

## Indoor/Outdoor UL Type OFNP/ C(UL) OFNP FT6 / Suitable for Direct Burial

Fiber Count	Part Number <sup>5</sup>	Legacy Part Number <sup>6</sup>	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Install Load lbs (N)	Max. Long Term Load lbs (N)	Min. Bend Radius Load in (cm)	Min. Long Term Bend Radius in (cm)
2	FDxD002P9	B9z043T	Black	0.18 (4.6)	12 (17)	300 (1335)	100 (440)	2.8 (71)	1.8 (45)
4	FDxD004P9	B9z044T	Black	0.17 (4.4)	12 (17)	300 (1335)	100 (440)	2.6 (66)	1.7 (43)
6	FDxD006P9	B9z045T	Black	0.19 (4.8)	14 (20)	300 (1335)	100 (440)	2.9 (73)	1.9 (48)
8	FDxD008P9	B9z046T	Black	0.22 (5.6)	23 (34)	300 (1335)	100 (440)	3.3 (83)	2.2 (55)
12	FDxD012P9	B9z048T	Black	0.23 (5.8)	24 (35)	300 (1335)	100 (440)	3.5 (88)	2.3 (58)
24*	FDxD024P9	B9z611T	Black	0.33 (8.3)	35 (52)	300 (1335)	100 (440)	5 (127)	3.3 (83)
24	FDxD024PJ	B9z612T	Black	0.46 (11.8)	86 (127)	600 (2670)	200 (880)	7 (177)	4.7 (119)
36	FDxD036PJ	B9z614T	Black	0.60 (15.3)	144 (214)	600 (2670)	200 (880)	9.1 (231)	6.1 (154)
48	FDxD048PK	B9z616T	Black	0.61 (15.4)	146 (217)	600 (2670)	200 (880)	9.2 (233)	6.1 (154)
72	FDxD072PK	B9z620T	Black	0.76 (19.4)	188 (279)	600 (2670)	200 (880)	11.5 (292)	7.7 (195)
96	FDxD096PK	B9z623T	Black	0.91 (23.2)	333 (495)	600 (2670)	200 (880)	13.7 (347)	9.2 (233)
144	FDxD144PK	B9z621T	Black	1.11 (28.2)	386 (574)	600 (2670)	200 (880)	16.7 (424)	11.1 (281)

5 Substitute (x) with Fiber Grade Code  
6 Substitute (z) with Legacy Fiber Grade Code  
\* Single jacket design.

F	D	x	D	nnn	R,L,P	9,J,K	( c )
Belden fiber cable	D: In/Outdoor	x Fiber type see table A	D: Distribution	Fiber count	R: RISER L: LSZH P: PLENUM	9: Single Tube J: 6 F/T K: 12 F/T	Special Color

**COLOR:**

Default color is Black Jacket and subunits fiber color Identifier (See Table Page 1)

Jackets Blu: B, Org: O, Grn: G, Brn: M, GRY: S:, Wht: W, Red: R, Blk: ( N\*), Yel: Y, Vio: V, Pnk: P, Aqu: A

OM4 with Black jacket and Aqua subunits : 3

\* N for black cables is not added since this is the default color

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