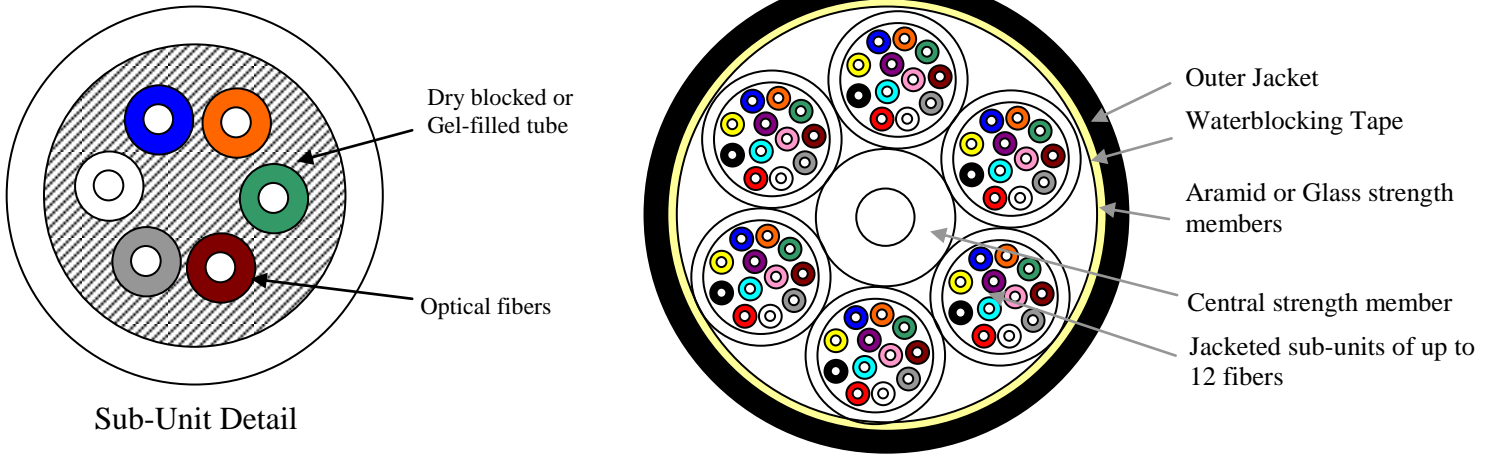


Loose Tube Single Jacket All Dielectric Cable

Revision Number: 0 Revision Date: 04/10/2017



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 ²	OS2 Single Mode ³
Fiber Grade Code (x)	1	2	3	4	S	D
Legacy Fiber Grade Code (z)	B	A	C	E	W	-
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550	1310/1550
Min. OFL ¹ Bandwidth (MHz-km)	200/500	500/500	1500/500	3500/500	-	-
Min. Laser Bandwidth ⁴ (MHz-km)	220/-	950/-	2000/-	4700/-	-	-
Max Attenuation (dB/km)	3.5/1.2	3.5/1.0	3.0/1.0	3.0/1.0	.40/.30	.40/.30
1 Gigabit Ethernet Min. Link Length (meters)	300/550	600/600	900/550	1040/550	5000/-	5000/-
10 Gigabit Ethernet Min. Link Length (meters)	32/-	82/-	300/-	550/-	10,000/40,000	10,000/40,000

Fiber & Sub-unit	
1	Blue
2	Orange
3	Green
4	Brown
5	Gray
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

- OFL – Overfilled Launch
- Low water peak Single-mode suitable for CWDM use; complies with ITU G.652.c/d & G.657.a1
- Low water peak Single-mode suitable for CWDM use; complies with ITU G.652.c/d
- Effective Modal Bandwidth, determined by RML or DMD performance specifications

Physical Specifications	
Fiber Type:	See attached tables
Buffer Type:	Dry blocked or Gel-filled buffer tubes
Assembly:	Color coded fibers in color coded loose tubes, around a central member
Strength members:	Aramid / E-Glass (central member)
Sub-unit Jacket Material:	Thermoplastic
Outer Jacket Material:	Thermoplastic
Listings:	See attached tables

Temperature Ranges				
	Indoor/Outdoor OFNR	Indoor/Outdoor OFNP	Indoor/ Outdoor LSZH	Outdoor
Operating Temp	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C
Storage Temp	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C
Installation Temp	-30 to +70°C	0 to +60°C	-30 to +70°C	-30 to +70°C

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Loose Tube Single Jacket All Dielectric Cable

Revision Number: 0 Revision Date: 04/10/2017

Indoor/Outdoor (UL) Type OFNR / c(UL) OFNR / FT4 (Dry Blocked Tubes)								
Fiber Count	SPN Part Number ⁵	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
2	FDxL002RC	Black	0.48 (12.3)	100 (148)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
4	FDxL004RC	Black	0.48 (12.3)	100 (148)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
6	FDxL006RC	Black	0.48 (12.3)	100 (148)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
12	FDxL012RD	Black	0.48 (12.3)	99 (147)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
24	FDxL024RD	Black	0.48 (12.3)	99 (147)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
36	FDxL036RD	Black	0.48 (12.3)	99 (147)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
48	FDxL048RD	Black	0.48 (12.3)	98 (146)	600 (2670)	200 (890)	9.7 (25)	4.8 (12)
72	FDxL072RD	Black	0.52 (13.1)	103 (146)	600 (2670)	200 (890)	10.3 (26)	5.2 (13)
96	FDxL096RD	Black	0.58 (14.7)	138 (205)	600 (2670)	200 (890)	11.6 (29)	5.8 (15)
144	FDxL144RD	Black	0.72 (18.2)	198 (295)	600 (2670)	200 (890)	14.3 (37)	7.2 (18)

⁵ Substitute (x) with Fiber Grade Code
Compliant to GR-20, ICEA S-104-696, NFPA 70 Article 770, UL-1666, IEEE 1202

Indoor/Outdoor (UL) Type OFNP / c(UL) OFNP / FT6 (Dry Blocked Tubes)									
Fiber Count	SPN Part Number ⁵	Legacy Part Number ⁶	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
2*	FDxL002P0	B9z200	Black	0.26 (6.7)	33 (49)	320 (1425)	90 (400)	5.3 (13.5)	4.0 (10.2)
4*	FDxL004P0	B9z201	Black	0.26 (6.7)	33 (49)	320 (1425)	90 (400)	5.3 (13.5)	4.0 (10.2)
6*	FDxL006P0	B9z202	Black	0.26 (6.7)	33 (49)	320 (1425)	90 (400)	5.3 (13.5)	4.0 (10.2)
12*	FDxL012P0	B9z204	Black	0.26 (6.7)	33 (49)	320 (1425)	90 (400)	5.3 (13.5)	4.0 (10.2)
24	FDxL024PD	B9z205	Black	0.37 (9.4)	55 (81)	600 (2670)	180 (800)	7.4 (18.8)	3.7 (9.4)
36	FDxL036PD	B9z206	Black	0.37 (9.4)	55 (81)	600 (2670)	180 (800)	7.4 (18.8)	3.7 (9.4)
48	FDxL048PD	B9z207	Black	0.37 (9.4)	55 (81)	600 (2670)	180 (800)	7.4 (18.8)	3.7 (9.4)
72	FDxL072PD	B9z209	Black	0.44 (11.2)	67 (100)	600 (2670)	180 (800)	8.0 (20.3)	4.0 (10.1)
96	FDxL096PD	B9z211	Black	0.48 (12.2)	97 (144)	600 (2670)	180 (800)	9.6 (24.3)	4.8 (12.1)
144	FDxL144PD	B9z215	Black	0.61 (15.5)	138 (205)	600 (2670)	180 (800)	12.2 (31.0)	6.1 (15.5)

Max Attenuation (dB/km):
Fiber Grade Code (x): 1 2 3 4 W D
 3.5/1.25 3.5/1.25 3.25/1.2 3.0/1.2 .50/.50 .50/.50

* Single jacket design
⁵ Substitute (x) with Fiber Grade Code
⁶ Substitute (z) with Legacy Fiber Grade Code
Compliant to GR-20, ICEA S-104-696, NFPA 70 Article 770, NFPA 262

Loose Tube Single Jacket All Dielectric Cable

Revision Number: 0 Revision Date: 04/10/2017

Outdoor (Dry Blocked Tubes)								
Fiber Count	SPN Part Number ⁵	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
6	FSxL006NC	Black	0.41 (10.5)	56 (83)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
12	FSxL012ND	Black	0.41 (10.5)	56 (84)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
24	FSxL024ND	Black	0.41 (10.5)	57 (85)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
36	FSxL036ND	Black	0.41 (10.5)	58 (86)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
48	FSxL048ND	Black	0.41 (10.5)	59 (87)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
72	FSxL072ND	Black	0.45 (11.5)	71 (106)	600 (2670)	180 (800)	8.4 (21)	4.2 (11)
96	FSxL096ND	Black	0.52 (13.3)	91 (136)	600 (2670)	180 (800)	9.6 (25)	4.8 (12)
144	FSxL144ND	Black	0.67 (17.1)	148 (220)	600 (2670)	180 (800)	12.4 (32)	6.2 (16)
192	FSxL192ND	Black	0.62 (15.8)	110 (163)	600 (2670)	180 (800)	12.4 (32)	6.2 (16)
216	FSxL216ND	Black	0.62 (15.8)	110 (163)	600 (2670)	180 (800)	12.4 (32)	6.2 (16)
288	FSxL288ND	Black	0.69 (17.6)	150 (225)	600 (2670)	180 (800)	15.0 (38)	7.5 (19)

⁵ Substitute (x) with Fiber Grade Code
Compliant to GR-20

Indoor/Outdoor LSZH -- (ETL) Type OFNG-LS c(ETL) / FT4 (Dry Blocked Tubes)								
Fiber Count	SPN Part Number ⁵	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
6	FSxL006MC	Black	0.39 (9.8)	49 (73)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
12	FSxL012MD	Black	0.39 (9.8)	49 (73)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
24	FSxL024MD	Black	0.39 (9.8)	49 (73)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
36	FSxL036MD	Black	0.39 (9.8)	48 (72)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
48	FSxL048MD	Black	0.39 (9.8)	48 (71)	600 (2670)	180 (800)	7.8 (20)	3.9 (10)
72	FSxL072MD	Black	0.42 (10.6)	55 (82)	600 (2670)	180 (800)	8.4 (21)	4.2 (11)
96	FSxL096MD	Black	0.48 (12.3)	75 (118)	600 (2670)	180 (800)	9.6 (25)	4.8 (12)
144	FSxL144MD	Black	0.62 (15.8)	119 (178)	600 (2670)	180 (800)	12.4 (32)	6.2 (16)
216	FSxL216MD	Black	0.62 (15.8)	110 (163)	600 (2670)	180 (800)	12.4 (32)	6.2 (16)
288	FSxL288MD	Black	0.75 (19.1)	148 (220)	600 (2670)	180 (800)	15.0 (38)	7.5 (19)

⁵ Substitute (x) with Fiber Grade Code
Compliant to GR-20, ICEA S-104-696, NFPA 70 Article 770, UL-1666, IEEE 1202

Loose Tube Single Jacket All Dielectric Cable

Revision Number: 0 Revision Date: 04/10/2017

Indoor/Outdoor (UL) Type OFNR / c(UL) OFNR / FT4 (Gel-filled Tubes)

Fiber Count	SPN Part Number ⁵	Legacy Part Number ⁶	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
4	FDxL004RF	N/A	Black	0.38 (9.7)	80 (118)	600 (2670)	200 (890)	7.6 (19.4)	5.7 (14.6)
6*	FDxL006RF	B9z810	Black	0.38 (9.7)	81 (120)	600 (2670)	200 (890)	7.6 (19.4)	5.7 (14.6)
12*	FDxL012RF	B9z811	Black	0.38 (9.7)	81 (120)	600 (2670)	200 (890)	7.6 (19.4)	5.7 (14.6)
12	FDxL012RG	N/A	Black	0.41 (10.4)	60 (89)	600 (2670)	200 (890)	8.2 (20.8)	6.2 (15.7)
24*	FDxL024RF	B9z812	Black	0.38 (9.7)	81 (120)	600 (2670)	200 (890)	7.6 (19.4)	5.7 (14.6)
24	FDxL024RG	N/A	Black	0.41 (10.4)	60 (89)	600 (2670)	200 (890)	8.2 (20.8)	6.2 (15.7)
36*	FDxL036RF	B9z813	Black	0.38 (9.7)	81 (120)	600 (2670)	200 (890)	7.6 (19.4)	5.7 (14.6)
36	FDxL036RG	N/A	Black	0.41 (10.4)	60 (89)	600 (2670)	200 (890)	8.2 (20.8)	6.2 (15.7)
48	FDxL048RG	B9z814	Black	0.48 (12.2)	105 (155)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
72	FDxL072RG	B9z815	Black	0.48 (12.2)	105 (155)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
96	FDxL096RG	B9z816	Black	0.55 (14.0)	131 (193)	600 (2670)	200 (890)	11.0 (28.0)	8.3 (21.0)
144	FDxL144RG	B9z817	Black	0.70 (17.8)	218 (322)	600 (2670)	200 (890)	14.0 (35.6)	10.5 (26.7)

* 6F/Tube Design
⁵ Substitute (x) with Fiber Grade Code
⁶ Substitute (z) with Legacy Fiber Grade Code
 Compliant to GR-20, ICEA S-104-696, NFPA 70 Article 770, UL-1666, IEEE 1202

Indoor/Outdoor LSZH – ABS Approved – (UL) Type OFNR / c(UL) OFNR / FT4 (Gel-filled Tubes)

Fiber Count	SPN Part Number ⁵	Legacy Part Number ⁶	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
6*	FDxL006LF	B9z830	Black	0.48 (12)	107 (159)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
12*	FDxL012LF	B9z831	Black	0.48 (12)	107 (159)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
24*	FDxL024LF	B9z832	Black	0.48 (12)	107 (159)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
36*	FDxL036LF	B9z833	Black	0.48 (12)	107 (159)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
48	FDxL048LG	B9z834	Black	0.48 (12)	107 (159)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
72	FDxL072LG	B9z835	Black	0.48 (12)	107 (159)	600 (2670)	200 (890)	9.6 (24.4)	7.2 (18.3)
96	FDxL096LG	B9z836	Black	0.55 (14.0)	138 (205)	600 (2670)	200 (890)	11.0 (28.0)	8.3 (21.0)
144	FDxL144LG	B9z837	Black	0.70 (17.8)	228 (339)	600 (2670)	200 (890)	14.0 (35.6)	10.5 (26.7)

* 6F/Tube Design
⁵ Substitute (x) with Fiber Grade Code
⁶ Substitute (z) with Legacy Fiber Grade Code
 Compliant to GR-20, ICEA S-104-696, NFPA 70 Article 770, UL-1666, IEEE 1202

Loose Tube Single Jacket All Dielectric Cable

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Outdoor (Gel-filled Tubes)									
Fiber Count	SPN Part Number⁵	Legacy Part Number⁶	Jacket Color	Nom. Jacket Dia. in (mm)	Weight lbs/1000ft (kg/km)	Max. Tensile Load Install lbs (N)	Max. Tensile Load Long Term lbs (N)	Min. Bend Radius Load in (cm)	Min. Bend Radius Long Term in (cm)
6*	FSxL006NF	B9z510T	Black	0.36 (9.1)	59 (87)	600 (2670)	200 (890)	7.2 (18.2)	5.4 (13.7)
12*	FSxL012NF	B9z511T	Black	0.36 (9.1)	59 (87)	600 (2670)	200 (890)	7.2 (18.2)	5.4 (13.7)
12	FSxL012NG	N/A	Black	0.41 (10)	56 (83)	600 (2670)	200 (890)	8.2 (20.8)	4.1 (10.4)
24*	FSxL024NF	B9z500T	Black	0.36 (9.1)	59 (87)	600 (2670)	200 (890)	7.2 (18.2)	5.4 (13.7)
24	FSxL024NG	N/A	Black	0.41 (10)	56 (83)	600 (2670)	200 (890)	8.2 (20.8)	4.1 (10.4)
36*	FSxL036NF	B9z502T	Black	0.36 (9.1)	61 (90)	600 (2670)	200 (890)	7.2 (18.2)	5.4 (13.7)
36	FSxL036NG	N/A	Black	0.41 (10)	56 (83)	600 (2670)	200 (890)	8.2 (20.8)	4.1 (10.4)
48	FSxL048NG	B9z505T	Black	0.46 (11.7)	83 (123)	600 (2670)	200 (890)	9.2 (23.4)	6.9 (17.6)
72	FSxL072NG	B9z507T	Black	0.46 (11.7)	84 (124)	600 (2670)	200 (890)	9.2 (23.4)	6.9 (17.6)
96	FSxL096NG	B9z513T	Black	0.53 (13.5)	102 (151)	600 (2670)	200 (890)	10.6 (27.0)	7.95 (20.3)
144	FSxL144NG	B9z509T	Black	0.68 (17.3)	155 (229)	600 (2670)	200 (890)	13.6 (34.6)	10.2 (26.0)
216	FSxL216NG	B9z520T	Black	0.69 (17.0)	150 (223)	600 (2670)	200 (890)	13.8 (35.1)	6.9 (17.5)

* 6F/Tube Design
⁵ Substitute (x) with Fiber Grade Code
⁶ Substitute (z) with Legacy Fiber Grade Code
 Compliant to GR-20