



1/2" Foam Dielectric, LDF Series – 75-ohm

LDF4-75A

Description	Type No.
Cable Ordering Information	
Standard Cable	
1/2" Standard superflexible	LDF4-75A
Fire Retardant Cables	
1/2" Fire Retardant Jacket (CATVX)	LDF4RN-75A
1/2" Fire Retardant Jacket (CATVR)	LDF4RN-75A

Characteristics

Electrical	
Impedance, ohms	75 ± 3
Maximum Frequency, GHz	10
Velocity, percent	88
Peak Power Rating, kW	26
dc Resistance, ohms/1000 ft (1000 m)	
Inner	1.15 (3.77)
Outer	0.58 (1.90)
dc Breakdown, volts	4000
Jacket Spark, volts RMS	8000
Capacitance, pF/ft (m)	15.4 (50.5)
Inductance, µH/ft (m)	0.087 (0.284)
Mechanical	
Outer Conductor	Copper
Inner Conductor	Copper-Clad Aluminum
Diameter over Jacket, in (mm)	0.63 (16)
Diameter over Copper Outer Conductor, in (mm)	0.55 (14)
Minimum Bending Radius, in (mm)	5 (125)
Number of Bends, minimum (typical)	15 (40)
Bending Moment, lb-ft (N·m)	2.8 (3.8)
Cable Weight, lb/ft (kg/m)	0.14 (0.21)
Tensile Strength, lb (kg)	200 (90.7)
Flat Plate Crush Strength, lb/in (kg/mm)	110 (2.0)

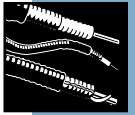
Attenuation and Average Power Ratings

Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100 m	Average Power, kW
0.5	0.042	0.138	24.5
1	0.060	0.196	17.3
1.5	0.073	0.240	14.1
2	0.084	0.277	12.2
10	0.190	0.624	5.43
20	0.270	0.887	3.82
30	0.333	1.09	3.10
50	0.432	1.42	2.39
88	0.579	1.90	1.78
100	0.618	2.03	1.67
108	0.644	2.11	1.60
150	0.764	2.51	1.35
174	0.826	2.71	1.25
200	0.889	2.92	1.16
300	1.10	3.62	0.937
400	1.29	4.22	0.803
450	1.37	4.50	0.753
500	1.45	4.76	0.712
512	1.47	4.82	0.702
600	1.60	5.26	0.644
700	1.74	5.72	0.592
800	1.88	6.16	0.550
824	1.91	6.26	0.541
894	2.00	6.55	0.517
960	2.08	6.81	0.497
1000	2.12	6.97	0.486
1250	2.41	7.90	0.429
1500	2.67	8.76	0.387
1700	2.87	9.41	0.360
1800	2.96	9.73	0.348
2000	3.15	10.3	0.328
2100	3.24	10.6	0.319
2200	3.33	10.9	0.310
2300	3.42	11.2	0.302
2500	3.59	11.8	0.288
3300	4.23	13.9	0.244
3400	4.30	14.1	0.240
4000	4.75	15.6	0.218
4900	5.37	17.6	0.192
6000	6.09	20.0	0.170
8000	7.29	23.9	0.142
10000	8.42	27.6	0.123

Standard Conditions:

For Attenuation, VSWR 1.0 ambient temperature 20°C (68°F).

For Average Power, VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F), no solar loading.



N Male
L4NM-7570



N Female
L4NF-7570

Connectors

Interface	Description	Type Number	Inner Contact Attachment	Outer Contact Attachment	Plating Code	Max. Length in (mm)	Max. Dia. in (mm)
N Male	50 Ohm Mating Pin	L4NM-7550-H	Solder	Self Flare	BB	2.5 (64)	0.94 (23.8)
N Male	70 Ohm Mating Pin	L4NM-7570-H	Solder	Self Flare	BB	2.5 (64)	0.94 (23.8)
N Male	50 Ohm Mating Pin, Right Angle	L4NR-7550	Solder	Self Flare	NB	3.2/1.5 (81/38)	0.95 (24.1)
N Female	50 Ohm Mating Pin	L4NF-7550	Solder	Self Flare	BB	2.5 (64)	0.91 (23.1)
N Female	70 Ohm Mating Pin	L4NF-7570	Solder	Self Flare	BB	2.3 (58)	0.91 (23.1)
UHF Male	-	L44P-75	Solder	Self Flare	BB	2.3 (58)	0.91 (23.1)
UHF Female	-	L44U-75	Solder	Self Flare	BB	2.3 (58)	0.91 (23.1)
CATV Equipment Housing Splice	-	48070	-	Self Flare	BB	2.0 (50)	0.91 (23.1)
		L44Z-75	Solder	Self Flare	BB	3.2 (81)	1.1 (27.9)

Plating Codes: BB - Brass Body and Pin, NB - Nickel Plated Body and Brass Pin.

Accessories

Description	Type No.
Hangers – For more hangers, adapters and mounting hardware see pages 599-607.	
Standard Hangers Kit of 10. Recommended maximum spacing is 3-ft (1 m). For different spacing recommendations, refer to Cable Hanger Spacing, pages 593-598.	43211A
Hardware Kit of 10. 3/8" bolts, lockwashers, nuts	
3/4" (19 mm) long	31769-5
1" (25 mm) long	31769-1
Snap-In Hangers Kit of 10. For prepunched 3/4" (19mm) holes on tower member or adapters, Recommended maximum spacing is 3-ft. For different spacing recommendations, refer to Cable Hanger Spacing, pages 593-598.	206706-1
Click-On Hangers Kit of 10. Recommended maximum spacing is 3-ft	L4CLICK
Mounting Hardware see page 605.	
Kwik-Clamps Kit of 10. See page 607 for hanger options	
Support/Hoisting Grip . Use at 200-ft (60m) intervals.	
Grip with one clamp	L4SGRIP
Support clamp kit of 10	L4SGRIP-4IK
Standard Hoisting Grip	43094
Grounding and Surge Protection – for additional grounding kits and our surge protection offerings, see pages 609-616.	
SureGround Grounding Kit with standard weatherproofing	
Factory attached one-hole lug, 600 mm (24") lead	SGL4-06B1
Factory attached two-hole lug, 600 mm (24") lead	SGL4-06B2
Field attached two-hole lug, 1500 mm (59") lead	SGL4-15B4

Description	Type No.	
SureGround Plus Grounding Kit with weatherproofing boot		
Factory attached one-hole lug, 600 mm (24") lead	SGPL4-06B1	
Factory attached two-hole lug, 600 mm (24") lead	SGPL4-06B2	
Field attached two-hole lug, 1500 mm (59") lead	SGPL4-15B4	
Weatherproofing – for additional weatherproofing information see pages 617, 618.		
Cold Shrink Weatherproofing Kit		
1/2" Coax N Connector to 1/2" Coax N Connector	241474-4	
5/8" Coax to 1/2" Coax	242475-13	
7/8" Coax to 1/2" Coax	241475-9	
1-1/4" or 1-5/8" Coax to 1/2" Coax	241475-5A	
2 1/4" Coax to 1/2" Coax	241475-8	
1/2" to 1-1/2" Omni/Panel base Type N or DIN	241548-8	
1/2" to 2" Omni/Panel base Type N or DIN	241548-9	
1/2" LDF4 to Antenna Type N interface	241548-4	
Connector/Splice Weatherproofing Kit	221213	
Entry Systems – For entry systems offerings see pages 619, 620.		
Standard Cable Entry Boots	4" Boots	5" Boots
One Hole:	204679A-5	48939A-6
Three Hole:	204679A-7	48939A-8
Four Hole	204679A-16	48939A-17
Tools – for additional tool offerings see pages 620-623.		
EASIA [®] Plus Automated Cable Prep Tool	CPT-L4ARC	
EASIA [®] Cutting Tool	207866	
Cable Flare Tool	224363	
DIN Connector Coupling Torque Wrench	244377	
N Connector Coupling Torque Wrench	244379	