LCF78-50JL

7/8" CELLFLEX® Lite Low-

7/8" CELLFLEX [®] Lite Low-Loss Foam-Dielectric Coaxial Cable								
Product Desc	ription				Π			
CELLFLEX [®] Lite 7/8" low loss flexible cable					-			
Application: Main feed line								
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						1		
				7/8" CELLFLEX® Lite Low-Loss Foam Dielectric				
					Coaxial Cable			
Features/Benefits								
		no colution						
 It represents a light-weight transmission line solution The light weight of CELLFLEX® Lite coaxial cable results in reduced work-force and lifting gear. 				Frequency		uation	Power	
 It is easy to transport, handle and install 				[MHz]	[dB/100m	[dB/100ft]	[kW]	
	te coaxial cables enable savin	gs in shipping cost.		0.5	0.0871	0.0266	85.0	
 It exhibits a cost-efficient alternative to copper transmission line 			1.0	0.123	0.0376	85.0		
CELLFLEX® Lite coaxial cable helps to reduce CAPEX spending.			1.5 2.0	0.151 0.175	0.0461 0.0532	70.2 60.6		
 It offers a user 	-friendly compatibility with	RFS's existing range of accesso	ries	10	0.392	0.119	27.0	
CELLFLEX® Lite coaxial cable requires less inventory additions, thus reduced OPEX.			20	0.556	0.170	19.1		
It enables trouble-free installation and operation CELLELEVENT is acayial achieve and reduces OPEX				<u>30</u> 50	0.683	0.208	15.5 12.0	
CELLFLEX® Lite coaxial cable avoids downtime and reduces OPEX.				88	1.18	0.360	8.98	
 The attenuation is comparable to the industry standard in traditional cable CELLFLEX® Lite coaxial cable maintains uncompromised coverage. 				100	1.26	0.384	8.41	
Specially developed connectors exhibit low and stable intermodulation performance				<u>108</u> 150	1.31 1.55	0.400 0.473	8.09 6.84	
CELLFLEX® Lite coaxial cable exceeds present PIM standards ensuring no dropped calls.				174	1.67	0.510	6.35	
 It is available with UV-resistant polyethylene or flame-retardant jackets 				200	1.80 2.22	0.549 0.677	5.89 4.77	
CELLFLEX® Lite coaxial cable can be used outside and in indoor applications where restrictions apply.				400	2.58	0.786	4.11	
 It exceeds industry standard for return loss performance 				450	2.74	0.837	3.87	
CELLFLEX® Lite coaxial cable means zero risk in network planning.				500 512	2.90 2.94	0.884	3.66 3.61	
Technical Fea	itures			600	3.19	0.973	3.32	
Structure				700	3.46	1.06	3.06	
Inner conductor:	Copper Tube	[mm (in)]	9.32 (0.37)	750 800	3.59 3.72	1.10 1.13	2.95 2.85	
Dielectric:	Foam Polyethylene	[mm (in)]	22.4 (0.88)	824	3.78	1.15	2.80	
Outer conductor:	Corrugated Aluminium	[mm (in)]	25.2 (0.99)	- <u>894</u> 900	3.95 3.96	1.20 1.21	2.68 2.68	
Jacket:	Polyethylene, PE	[mm (in)]	27.8 (1.09)	- 925	4.02	1.22	2.64	
Mechanical Prop			0.04 (0.00)	960	4.10	1.25	2.59	
Weight, approximate Minimum bending ra		[kg/m (lb/ft)] [mm (in)]	0.34 (0.23) 120 (5)	1000	4.19 4.72	1.28	2.53 2.25	
	idius, repeated bending	[mm (in)]	250 (10)	1400	5.02	1.53	2.11	
Bending moment		[Nm (lb-ft)]	13 (9.6)	- <u>1500</u> - 1700	5.21 5.58	1.59 1.70	2.03 1.90	
Max. tensile force		[N (lb)]	1440 (324)		5.56	1.70	1.90	
	ximum clamp spacing	[m (ft)]	0.8 / 1 (2.75 / 3.25)	2000	6.10	1.86	1.74	
Electrical Proper				2100 2200	6.27 6.43	1.91 1.96	1.69 1.65	
Characteristic imped		[Ω]	50 +/- 1	- 2400	6.75	2.06	1.57	
Relative propagation	i velocity	[%] [pF/m (pF/ft)]	90	2500	6.90	2.10	1.54	
Inductance		[pF/m (pF/π)] [μH/m (μH/ft)]	75 (22.9) 0.1875 (0.057)	<u> </u>	7.05	2.15 2.20	1.50 1.47	
Max. operating frequ	iency	[GHz]	5	3000	7.64	2.20	1.39	
Jacket spark test RM		[V]	8000	3500	8.33	2.54	1.27	
Peak power rating		[kW]	85	4000	8.98 10.1	2.74 3.07	1.18 1.05	
RF Peak voltage rati		[V]	2920	5000	10.2	3.11	1.04	
DC-resistance inner DC-resistance outer		[Ω/km (Ω/1000ft)] [Ω/km (Ω/1000ft)]	<u>1.54 (0.47)</u> 1.42 (0.43)			able temperatu (104°F) ambient		
-	Conductor		1. 12 (0.70)			, amoion		
Storage temperature		[°C (°F)]	-70 to 85 (-94 to 185)					
Installation temperat		[°C (°F)]	-40 to 60 (-40 to 140)	_				
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-50 to 85 (-58 to 185)

24 (1.135)

Features/Benefits

Storage temperature Installation temperature Operation temperature

VSWR Performance:

Other Options:

Other Characteristics Fire Performance:

- The light weight of CELLFLEX® L It is easy to transport, handle ar •
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All

Halogene Free

Standard

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Phase stabilized and phase matched cables and assemblies are available upon request.

[°C (°F)]

[dB (VSWR)]

