7/8" CELLFLEX® Lite Low-Loss Foam-Dielectric Coaxial Cable

Product Description

CELLFLEX® Lite 7/8" low loss flexible cable

Application: Main feed line, Riser-rated In-Building



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Attenuation

Frequency

Features/Benefits

- It represents a light-weight transmission line solution
- The light weight of CELLFLEX® Lite coaxial cable results in reduced work-force and lifting gear.
- . It is easy to transport, handle and install
 - CELLFLEX® Lite coaxial cables enable savings in shipping cost.
- . It exhibits a cost-efficient alternative to copper transmission line CELLFLEX® Lite coaxial cable helps to reduce CAPEX spending.
- It offers a user-friendly compatibility with RFS's existing range of accessories CELLFLEX® Lite coaxial cable requires less inventory additions, thus reduced OPEX.
- It enables trouble-free installation and operation
- CELLFLEX® Lite coaxial cable avoids downtime and reduces OPEX.
- The attenuation is comparable to the industry standard in traditional cable CELLFLEX® Lite coaxial cable maintains uncompromised coverage.
- Specially developed connectors exhibit low and stable intermodulation performance CELLFLEX® Lite coaxial cable exceeds present PIM standards ensuring no dropped calls.
- It is available with UV-resistant polyethylene or flame-retardant jackets
 - CELLFLEX® Lite coaxial cable can be used outside and in indoor applications where restrictions apply.
- It exceeds industry standard for return loss performance CELLFLEX® Lite coaxial cable means zero risk in network planning.

	[MHz]	[dB/100m]	[dB/100ft]	[kW]
İ	0.5	0.0871	0.0266	85.0
İ	1.0	0.123	0.0376	85.0
İ	1.5	0.151	0.0461	70.2
İ	2.0	0.175	0.0532	60.6
İ	10	0.392	0.119	27.0
Ī	20	0.556	0.170	19.1
Ī	30	0.683	0.208	15.5
Ī	50	0.885	0.270	12.0
Ī	88	1.18	0.360	8.98
Ī	100	1.26	0.384	8.41
Ī	108	1.31	0.400	8.09
Ī	150	1.55	0.473	6.84
ſ	174	1.67	0.510	6.35
ſ	200	1.80	0.549	5.89
ſ	300	2.22	0.677	4.77
ſ	400	2.58	0.786	4.11
	450	2.74	0.837	3.87
	500	2.90	0.884	3.66
	512	2.94	0.895	3.61
	600	3.19	0.973	3.32
	700	3.46	1.06	3.06
L	750	3.59	1.10	2.95
L	800	3.72	1.13	2.85
L	824	3.78	1.15	2.80
Į	894	3.95	1.20	2.68
Į	900	3.96	1.21	2.68
ļ	925	4.02	1.22	2.64
ļ	960	4.10	1.25	2.59
ļ	1000	4.19	1.28	2.53
ļ	1250	4.72	1.44	2.25
1	1400	5.02	1.53	2.11
1	1500	5.21	1.59	2.03
ļ	1700	5.58	1.70	1.90
ļ	1800	5.76	1.76	1.84
ļ	2000	6.10	1.86	1.74
ļ	2100	6.27	1.91	1.69
ļ	2200	6.43	1.96	1.65
ļ	2400	6.75	2.06	1.57
ļ	2500	6.90	2.10	1.54
-	2600	7.05	2.15	1.50
ļ	2700	7.20	2.20	1.47
ŀ	3000	7.64	2.33	1.39
ŀ	3500	8.33	2.54	1.27
ŀ	4000	8.98	2.74	1.18
-	4900	10.1	3.07	1.05
	5000	10.2	3.11	1.04

Attenuation at 20°C (68°F) cable temperature
Mean nower rating at 40°C (104°F) ambient temperature

	te coaxial cable means zero fisk in networ	k plaining.	
Technical Fea	tures		
Structure			
Inner conductor:	Copper Tube	[mm (in)]	9.32 (0.37)
Dielectric:	Foam Polyethylene	[mm (in)]	22.4 (0.88)
Outer conductor:	Corrugated Aluminium	[mm (in)]	25.2 (0.99)
Jacket:	Polyethylene, PE, Metalhydroxite Filling	[mm (in)]	27.8 (1.09)
Mechanical Prop	erties		
Weight, approximate	ly	[kg/m (lb/ft)]	0.41 (0.28)
Minimum bending ra	dius, single bending	[mm (in)]	120 (5)
Minimum bending ra	dius, repeated bending	[mm (in)]	250 (10)
Bending moment		[Nm (lb-ft)]	13 (9.6)
Max. tensile force		[N (lb)]	1440 (324)
Recommended / ma	ximum clamp spacing	[m (ft)]	0.8 / 1 (2.75 / 3.25)
Electrical Proper	ties		
Characteristic imped	ance	[Ω]	50 +/- 1
Relative propagation	velocity	[%]	90
Capacitance		[pF/m (pF/ft)]	75 (22.9)
Inductance		[µH/m (µH/ft)]	0.1875 (0.057)
Max. operating frequ	ency	[GHz]	5
Jacket spark test RM	IS	[V]	8000
Peak power rating		[kW]	85
RF Peak voltage rati	ng	[V]	2920
DC-resistance inner	conductor	[Ω/km (Ω/1000ft)]	1.54 (0.47)

Installation temperature Operation temperature

Recommended Temperature Range

DC-resistance outer conductor

Storage temperature

Fire Performance: Flame Retardant, LS0H

VSWR Performance: 24 (1.135) Other Options: Phase stabilized and phase matched cables and assemblies are available upon request.

Other Characteristics

nformation contained in the present datasheet is subject to confirmation at time of ordering

[Ω/km (Ω/1000ft)]

[°C (°F)]

[°C (°F)]

1.42 (0.43)

-70 to 85 (-94 to 185)

-25 to 60 (-13 to 140)

-50 to 85 (-58 to 185)