LCFS114-50CPR (LCFS114-50JFNA EXP, LCFS114-50CPR+)

1-1/4" CELLFLEX® Premium Attenuation Low-Loss Foam-Dielectric Coaxial Cable



CELLFLEX®1-1/4" premium attenuation low loss flexible cable

Feature / Benefits

Low Attenuation

The low attenuation of CELLFLEX® coaxial cable results in highly efficient signal transfer in your RF system.

Complete ShieldingThe solid outer conductor of CELLFLEX® coaxial cable creates a continuous RFI/EMI shield that minimizes system interference.

Special low VSWR versions of CELLFLEX® coaxial cables contribute to low system noise.

Outstanding Intermodulation Performance

CELLFLEX® coaxial cable's solid inner and outer conductors virtually eliminate intermods. Intermodulation performance is also confirmed with state-of-the-art equipment at the RFS factory.

High Power RatingDue to their low attenuation, outstanding heat transfer properties and temperature stabilized dielectric materials, CELLFLEX® cable provides safe long term operating life at high transmit power levels.

Wide Range of Application

Typical areas of application are: feedlines for broadcast and terrestrial microwave antennas, wireless cellular, PCS and ESMR base stations, cabling of antenna arrays, and radio equipment interconnects.

Meets/Exceeds: IEC 60754-1, -2; IEC 60332-1-1; IEC 61034-1, -2; IEC 60332-3-24; EN50575

Technical features

APPLICATIONS

Applications Indo	or Wireless Communication	TV & Radio	HF Defense	Mobile Radio	Cable Solutions	l
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STRUCTURE

Cable Type	Foam-Dielectric, Corrugated
Size	1-1/4
Jacket Option	Black
Inner Conductor Diameter	13.1mm (0.52in)
Inner Conductor Material	Copper Tube
Dielectric Diameter	32.7mm (1.29in)
Dielectric Material	Foam Polyethylene
Outer Conductor Diameter	35.9mm (1.41in)
Outer Conductor Material	Corrugated Copper
Jacket Diameter	39mm (1.54in)
Jacket Material	Polyethylene, PE, Metalhydroxite Filling

TESTING AND ENVIRONMENTAL

Fire Performance	Flame Retardant, LS0H
Installation Temperature	-15°C to 60°C (5°F to 140°F)
Storage Temperature	-70°C to 85°C (-94°F to 185°F)
Operation Temperature	-50°C to 85°C (-58°F to 185°F)

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ELECTRICAL SPECIFICATIONS

Impedance	50 +/- 1 Ω
Maximum Frequency	3.7 GHz
Velocity	89 %
Capacitance	75pF/m (22.9pF/ft)
Inductance	0.188μH/m (0.057μH/ft)
Peak Power Rating	176 kW
RF Peak Voltage	4200 Volts
Jacket Spark	10000 Volt RMS
Inner Conductor dc Resistance	0.83ohm/1000 m (0.25ohm/1000 ft)
Outer Conductor dc Resistance	0.73ohm/1000 m (0.22ohm/1000 ft)
Return Loss (VSWR) Performance	Standard (for 40-2700, 3300-3700 MHz) or Premium
Phase Stabilized	Phase stabilized and phase matched cables and assemblies are available upon request.

MECHANICAL SPECIFICATIONS

Cable Weight	0.97kg/m (0.65lb/ft)
Minimum Bending Radius	200mm (8in)
Minimum Bending Radius	380mm (15in)
Bending Moment	43 (32)
Tensile Strength	2490N (560lb)
Recommended / Maximum Clamp Spacing	1 / 1.2 (3.25 / 4)

ATTENUATION @ 20°C (68°F) AND POWER RATING @ 40°C (104°F)

Frequency, MHz	dB per 100m	dB per 100ft	Power, kW	
100	0.817	0.249	13.5	
200	1.17	0.358	9.4	
450	1.81	0.55	6.07	
700	2.29	0.699	4.8	
800	2.47	0.752	4.45	
900	2.63	0.802	4.18	
1900	4	1.22	2.75	
2000	4.12	1.26	2.67	
2200	4.35	1.33	2.53	
2500	4.69	1.43	2.34	
2700	4.9	1.49	2.24	
3000	5.21	1.59	2.11	
3600	5.8	1.77	1.9	
3700	5.9	1.8	1.86	

External Document Links

Notes

Related Documents

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Web URL to CPR resources Other Documents WINS Value Proposition Value Propositions TML Value Proposition Value Propositions

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