

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

	tion low loss flex	kible cable					
FEATURES / BENEFITS							
Ultra Low Attenuation						B	
The further reduced attenuation of	of CELLFLEX® pr	emium attenu	ation coaxial cable resu	ults in		Contraction of the Institute of the Inst	
extremly efficient signal transfer i	n your RF syster	n, especially at	high frequencies.				
Complete Shielding							
The solid outer conductor of CELL	FLEX® coaxial c	able creates a	continuous RFI/EMI shi	eld that			
minimizes system interference.							
Low VSWR							
Special low VSWR versions of CELI		ables contribu	ite to low system noise			100 C	
Outstanding Intermodulation P							
CELLFLEX® coaxial cable  s solid			-				
Intermodulation performance is a factory.	iso confirmed w	/ith state-oi-th	e-art equipment at the	KFS			
High Power Rating							
Due to their low attenuation, outs	tanding heat tra	ansfer nronerti	es and temperature st	abilized			
dielectric materials, CELLFLEX® ca	-			1	-1/4" CELLFLEX	® Low-Loss Fo	am Dielectric
power levels.				15mm	C	Coaxial Cable	
• Wide Range of Application							
Typical areas of application are: fe	edlines for broa	adcast and terr	estrial microwave ante	nnas,			
wireless cellular, PCS and ESMR b							
interconnects.			-				
• Meets or Exceeds: IEC 60754-1, -	2; IEC 60332-1-1	, -2;IEC 61034	-1, -2; IEC 60332-3-24				
• Meets or Exceeds: IEC 60754-1, - (formerly IEC 60332-3-C)	2; IEC 60332-1-1	, -2;IEC 61034	-1, -2; IEC 60332-3-24				
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(formerly IEC 60332-3-C) Technical features	2; IEC 60332-1-1	, -2;IEC 61034	-1, -2; IEC 60332-3-24				
(formerly IEC 60332-3-C) Technical features APPLICATIONS	2; IEC 60332-1-1	l <b>, -2;IEC 61034</b>	Wireless	TV & Radio	HF Defense	Mobile Radio	Cable Solution
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications	2; IEC 60332-1-1			TV & Radio	HF Defense	Mobile Radio	Cable Solution
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE	2; IEC 60332-1-1		Wireless Communication			Mobile Radio	Cable Solution
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE Cable Type	2; IEC 60332-1-1		Wireless Communication	TV & Radio am-Dielectric, 1-1/2	Corrugated	Mobile Radio	Cable Solutior
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE Cable Type Size	2; IEC 60332-1-1		Wireless Communication	am-Dielectric,	Corrugated	Mobile Radio	Cable Solutior
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE Cable Type Size	2; IEC 60332-1-1		Wireless Communication	am-Dielectric, 1-1/4	Corrugated	Mobile Radio	Cable Solutior
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE Cable Type Size Jacket Option			Wireless Communication	am-Dielectric, 1-1/4 Black	Corrugated	Mobile Radio	Cable Solutior
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE Cable Type Size Jacket Option Inner Conductor Diameter			Wireless Communication	am-Dielectric, 1-1/4 Black 13.1 (0.	Corrugated 4 ( 52) Fube	Mobile Radio	Cable Solutior
(formerly IEC 60332-3-C) Technical features APPLICATIONS Applications STRUCTURE Cable Type Size Jacket Option Inner Conductor Diameter Inner Conductor Material	- - - - - - - - - - - - - - - - - - -		Wireless Communication	am-Dielectric, 1-1/4 Black 13.1 (0. Copper 1	Corrugated ( 52) Fube 29)	Mobile Radio	Cable Solutior

mm (in)

mm (in)

**Outer Conductor Diameter** 

**Outer Conductor Material** 

Jacket Diameter

Jacket Material

LCFS114-50JFNA

time of ordering

REV : K

REV DATE : 15 Dec 2023

35.9 (1.41)

Corrugated Copper

39 (1.54)

Polyethylene, PE, Metalhydroxite Filling



Fire Performance		Flame Retardant, LS0H
Flame Retardant Jacket Specifications		Meets/Exceeds: IEC 60754-1, -2; IEC 60332-1-1, -2; IEC 61034-1, -2; IEC 60332-3-24 (formerly IEC 60332-3-C); UL 1581; UL 1666; NEC type CATVR; CPR: https://www.rfsworld.com/searchengine/construction-products-regulation-cpr
Installation Temperature	°C(°F)	-25 to 60 (-13 to 140)
Storage Temperature	°C (°F)	-70 to 85 (-94 to 185)
Operation Temperature	°C(°F)	-50 to 85 (-58 to 185)
ELECTRICAL SPECIFICATIONS		
Impedance	Ω	50 +/- 1
Maximum Frequency	GHz	3.7
Velocity	%	89
Capacitance	pF/m (pF/ft)	75 (22.9)
Inductance	uH/m (uH/ft)	0.188 (0.057)
Peak Power Rating	kW	176
RF Peak Voltage	Volts	4200
Jacket Spark	Volt RMS	10000
Inner Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	0.83 (0.25)
Outer Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	0.73 (0.22)
Return Loss (VSWR) Performance		Standard (for 40-2700, 3300-3700 MHz) or Premium
Min. Return Loss (Max. VSWR)	dB (VSWR)	Standard 20 (1.222), Premium 24 (1.135)/ 23 (1.152)
Phase Stabilized		Phase stabilized and phase matched cables and assemblies are available upon request.
Temperature & Power		Standard
MECHANICAL SPECIFICATIONS		
Cable Weight, Nominal	kg/m (lb/ft)	0.97 (0.65)
Minimum Bending Radius, Single Bend	mm (in)	200 (8)
Minimum Bending Radius, Repeated Bends	mm (in)	380 (15)
Bending Moment	Nm (lb-ft)	43 (32)
Tensile Strength	N (lb)	2490 (560)
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)

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## PRODUCT DATASHEET

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Frequency, MHz	dB per 100m	dB per 100ft	Power, kW
1	0.08	0.02	139
100	0.82	0.25	13.50
200	1.17	0.36	9.40
450	1.81	0.55	6.07
700	2.29	0.70	4.80
800	2.47	0.75	4.45
900	2.63	0.80	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	4.90	1.49	2.24
3000	5.21	1.59	2.11
3300	5.51	1.68	2
3700	5.90	1.80	1.86

External Document Links

Notes

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