



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

FEATURES / BENEFITS

• **Ultra Low Attenuation**

The reduced attenuation of CELLFLEX® coaxial cable results in extremely efficient signal transfer in your RF system, especially at high frequencies.

• **Complete Shielding**

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

• **Low VSWR**

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 Rating**

Due 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



[External Document Links](#)

[Notes](#)

[CELLFLEX Drum Selection Guide](#)

Technical features

INFORMATION

Applications		Main feed line, intended for outdoor usage
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STRUCTURE

Size		1-1/4
Inner Conductor Diameter	mm (in)	13.1 (0.516)
Inner Conductor Material		Copper Tube
Dielectric Diameter	mm (in)	32.7 (1.287)
Dielectric Material		Foam Polyethylene
Outer Conductor Diameter	mm (in)	35.9 (1.413)
Outer Conductor Material		Corrugated Copper
Jacket Diameter	mm (in)	39 (1.535)
Jacket Material		Black Polyethylene

TESTING AND ENVIRONMENTAL

Phase Stabilized		Phase stabilized and phase matched cables and assemblies are available upon request.
Compliance		DIN EN ISO 9001:2015 ISO 14001:2015 RoHS 2011/65/EU - China RoHS SJ/T 11364-2006 REACH (EC 1907/2006) UL1581 - UV Resistance Jacket IEC 60754-1/-2
Installation Temperature	°C(°F)	-40 to 60 (-40 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)	74 (22.6)
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)
Passive Intermodulation PIM	min. dBc	-160
Return Loss (VSWR) Performance	Standard 20dB (1.222) / Premium 23/24dB (1.152/1.135) on specified frequencies	

MECHANICAL SPECIFICATIONS

Cable Weight, Nominal	kg/m (lb/ft)	0.84 (0.56)
Minimum Bending Radius, Single Bend	mm (in)	200 (8)
Minimum Bending Radius, Repeated Bends	mm (in)	380 (15)
Bending Moment	Nm (lb-ft)	43 (30)
Tensile Strength	N (lb)	2490 (560)
Recommended / Maximum Clamp Spacing	m (ft)	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
1	0.08	0.02	139,17
100	0.82	0.25	13.46
200	1.17	0.36	9.37
450	1.81	0.55	6.09
700	2.29	0.70	4.80
800	2.47	0.75	4.46
900	2.63	0.80	4.18
1800	3.88	1.18	2.83
2000	4.12	1.26	2.67
2200	4.35	1.33	2.53
2400	4.58	1.39	2.40
2700	4.90	1.49	2.24
3000	5.21	1.59	2.11
3500	5.71	1.74	1.93
3700	5.90	1.80	1.86



RELATED PRODUCTS

Connector Interface	Standard Connector Series C02	Premium Connector Series E01	Premium Connector Series D01 / D02 *only on request
N Male	NM-LCF114-C02	NM-LCF114-E01	NM-LCF114-D01
N Female	NF-LCF114-C02	NF-LCF114-E01	NF-LCF114-D01
4.3-10 Male		43M-LCF114-E01	43M-LCF114-D02
4.3-10 Female		43F-LCF114-E01	43F-LCF114-D02
7/16 Male	716M-LCF114-C02	716M-LCF114-E01	716M-LCF114-D01
7/16 Female	716F-LCF114-C02	716F-LCF114-E01	716F-LCF114-D01
Mandatory Tool	TRIM-SET-L114-C02	TRIM-SET-L114-D01	
Tool Information	Universal Trimming Tool For *-C02 Connector Series	Universal Trimming Tool For *-D01 And *-E01 Connector Series	
Installation Video	**~LCF114-C02	**~LCF114-E01	**~LCF114-D01
General Accessories			
Hand Tool Kit		TRIM-T01	
Stripping Tool For Grounding Kits		JSTRIP-114-2	
Grounding Kit		GKSPEED20-114P	