CELLFLEX® 3/8" low loss flexible cable

FEATURES / BENEFITS

Ultra Low Attenuation

The reduced attenuation of CELLFLEX® coaxial cable results in extremly 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

Technical features

INFORMATION

Applications		outdoor usage	
STRUCTURE			
Size		3/8	
Inner Conductor Diameter	mm (in)	3.1 (0.122)	
Inner Conductor Material		Copper-Clad Aluminum Wire	
Dielectric Diameter	mm (in)	7.2 (0.283)	
Dielectric Material		Foam Polyethylene	
Outer Conductor Diameter	mm (in)	9.5 (0.374)	
Outer Conductor Material		Corrugated Copper	
Jacket Diameter	mm (in)	11.2 (0.441)	
lacket Material		Black Polyethylene	

OEM jumpers, BTS inter-cabinet connections, GPS lines, Microwave IF cabling, intended for

TESTING AND ENVIRONMENTAL

Phase Stabilized		Phase stabilized and phase matched cables and accessories 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)
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)

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ELECTRICAL SPECIFICATIONS					
Impedance	Ω		50 +/- 1.5		
Maximum Frequency	GHz		13.5		
Velocity	%	88			
Capacitance	pF/m (pF/ft)	76 (23.2)			
Inductance	uH/m (uH/ft)	0.19 (0.058)			
Peak Power Rating	kW	15.4			
RF Peak Voltage	Volts	1240			
Jacket Spark	Volt RMS	5000			
Inner Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	3.8 (1.16)			
Outer Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	2.9 (0.88)			
Passive Intermodulation PIM	typ. 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)	0.13 (0.087)			
Minimum Bending Radius, Single Bend	mm (in)	50 (2)			
Minimum Bending Radius, Repeated Bends	mm (in)	95 (4)			
Bending Moment	Nm (lb-ft)	1.9 (1.4)			
Tensile Strength	N (lb)	530 (119)			
Recommended / Maximum Clamp Spacing	m (ft)	0.5 / 1 (1.75 / 3.25)			
ATTENUATION @ 20°C (68°F) AND	POWER RATIN	G @ 40°C (104°F)			
Frequency, MHz	dB per 100m		dB per 100ft	Power, kW	
100		3.43	1.04	2.12	
200	4.89		1.49	1.48	
450	7.44		2.27	0.97	
700	9.38		2.86	0.77	
800	10.06		3.07	0.72	
900	10.71		3.27	0.68	
1800	15.54		4.74	0.47	
2000	16.45		5.01	0.44	
2200	17.33		5.28	0.42	
2400	18.17		5.54	0.4	
2700	19.39		5.91	0.37	
3000	20.55		6.26	0.35	
3500	22.39		6.82	0.32	
4000	24.12		7.35	0.3	
5000	27.35		8.34	0.27	
13500	48.8		14.88	0.15	

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RELATED PRODUCTS			
Connector Interface	Premium Connector Series E01	Connector Series 070 / 071	
N Male	NM-LCF38-E01	NM-LCF38-070	
N Female	NF-LCF38-E01	NF-LCF38-070	
4.3-10 Male	43M-LCF38-E01		
Mandatory Tool		TRIM-38-L03	
Tool Information		Trimming Tool For *-070 And *-071 Connector Series	
Installation Video			
General Accessories			
Hand Tool Kit	TRIM-T01		

External Document Links

Grounding Kit

CELLFLEX Drum Selection Guide

Notes

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