CELLFLEX® 3/8" superflexible 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		OEM jumpers, BTS inter-cabinet connections, GPS lines, intended for outdoor usage			
STRUCTURE					
Size		3/8			
Inner Conductor Diameter	mm (in)	2.6 (0.102)			
Inner Conductor Material		Copper-Clad Aluminum Wire			
Dielectric Diameter	mm (in)	6.3 (0.248)			
Dielectric Material		Foam Polyethylene			
Outer Conductor Diameter	mm (in)	9.1 (0.358)			
Outer Conductor Material		Corrugated Copper			
Jacket Diameter	mm (in)	10.2 (0.402)			
Jacket Material		Black Polyethylene			
TECTINIC AND ENVIRONMENTAL					

TESTING AND ENVIRONMENTAL

Phase Stabilized		Phase stabilized and phase matched cables and accessories are available upon request.	
		DIN EN ISO 9001:2015	
Compliance		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)	

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ELECTRICAL SPECIFICATIONS				
Impedance	Ω		50 +/- 1	
Maximum Frequency	GHz		13.4	
Velocity	%		81	
Capacitance	pF/m (pF/ft)		82 (25)	
Inductance	uH/m (uH/ft)		0.207 (0.063)	
Peak Power Rating	kW		11.9	
RF Peak Voltage	Volts	1090		
Jacket Spark	Volt RMS		5000	
Inner Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	5.52 (1.68)		
Outer Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	7.3 (2.23)		
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)	0.1 (0.06)		
Minimum Bending Radius, Repeated Bends	mm (in)	25 (0.984)		
Tensile Strength	N (lb)	600 (135)		
Recommended / Maximum Clamp Spacing	m (ft)	0.25 / 0.25 (0.8 / 0.8)		
ATTENUATION @ 20°C (68°F) AND F	POWER RATING	6 @ 40°C (104°F)		
Frequency, MHz	dB per 100m		dB per 100ft	Power, kW
1	0.41		0.12	19.43
100	4.21		1.28	1.88
200	6.04		1.84	1.31
450	9.31		2.84	0.85
700	11.83		3.61	0.67
800	12.73		3.88	0.62
900		13.58	4.14	0.58
1800	20.05		6.11	0.39
2000		21.30	6.49	0.37
2200		22.51	6.86	0.35
2400	23.67		7.21	0.33
2700	25.35		7.73	0.31
3000	26.97		8.22	0.29
3500	29.55		9.01	0.27
4000	32.00		9.75	0.25
5000	36.62		11.16	0.22
13400	68.30		20.82	0.12

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RELATED PRODUCTS			
Connector Interface	Premium Connector Series E01	Premium Connector Series D01 *only on request	
N Male	NM-SCF38-E01	NM-SCF38-D01	
N Female	NF-SCF38-E01	NF-SCF38-D01	
4.3-10 Male	43M-SCF38-E01		
Mandatory Tool	TRIM-SET-S38-D01		
Tool Information	Universal Trimming Tool For *-D01 And *-E01 Connector Series		
Installation Video			
General Accessories			
Hand Tool Kit	TRIM-T01		
Grounding Kit	EAR-38-S		

External Document Links
CELLFLEX Drum Selection Guide

Notes

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