



CELLFLEX® 3/8" superflexible cable

FEATURES / BENEFITS

• **Low Attenuation**

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

• **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.



3/8" CELLFLEX® Superflexible Foam Dielectric Coaxial Cable

Technical features

APPLICATIONS

Applications	OEM jumpers, BTS inter-cabinet connections, GPS lines, intended for outdoor usage
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STRUCTURE

Cable Type		Foam-Dielectric, Superflexible
Size		3/8
Jacket Option		Black
Inner Conductor	mm (in)	4 (0)
Dielectric	mm (in)	6 (0)
Outer Conductor	mm (in)	9 (0)
Jacket	mm (in)	10 (0)

TESTING AND ENVIRONMENTAL

Fire Performance		Halogene Free
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, Ohm	Ω	50 +/- 1
Maximum Frequency	GHz	13.4
Velocity, percent	%	82
Capacitance	pF/m (pF/ft)	82 (25)
Inductance, uH/m (uH/ft)	μH/m (μH/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/km (Ω/kft)	Ω/1000 m (Ω/1000 ft)	5.3 (1.62)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	Ω/1000 m (Ω/1000 ft)	5.6 (1.71)
Return Loss (VSWR) Performance		Standard for 40-2700, 3300-4200, 4400-5925 MHz, Premium according to B-Class
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)	0.12 (0.08)
Minimum Bending Radius, Repeated Bends	mm (in)	25 (1)
Bending Moment, Nm (lb-ft)	Nm (lb*ft)	1 (1)
Tensile Strength	N (lb)	600 (135)
Recommended / Maximum Clamp Spacing	m (ft)	0.25 / 0.25 (0.8 / 0.8)



ATTENUATION AND POWER RATING

Frequency, MHz	dB per 100m	dB per 100ft	Power, kW
0.5	0.29	0.09	11.90
1	0.41	0.12	11.90
1.5	0.50	0.15	11.90
2	0.58	0.18	11.90
10	1.30	0.40	6.10
20	1.84	0.56	4.29
30	2.27	0.69	3.49
50	2.94	0.90	2.68
88	3.94	1.20	2.01
100	4.21	1.28	1.88
108	4.38	1.34	1.80
150	5.20	1.58	1.52
174	5.62	1.71	1.41
200	6.04	1.84	1.31
300	7.49	2.28	1.05
400	8.74	2.66	0.90
450	9.31	2.84	0.85
500	9.85	3	0.80
512	9.88	3.04	0.79
600	10.87	3.31	0.73
700	11.83	3.61	0.67
800	12.73	3.88	0.62
824	12.94	3.94	0.61
894	13.53	4.12	0.58
900	13.58	4.14	0.58
925	13.79	4.20	0.57
960	14.08	4.29	0.56
1000	14.40	4.39	0.55
1250	16.31	4.97	0.48
1500	18.08	5.51	0.44
1700	19.41	5.92	0.41
1800	20.05	6.11	0.39
2000	21.30	6.49	0.37
2100	21.90	6.68	0.36
2200	22.50	6.86	0.35
2400	23.70	7.21	0.33
3000	27	8.22	0.29
3500	29.50	9.01	0.27
4000	32	9.75	0.25
5000	36.60	11.16	0.22



6000	41	12.48	0.19
7000	45.10	13.74	0.18
8000	49	14.94	0.16
9000	52.80	16.09	0.15
10000	56.50	17.21	0.14
12000	63.50	19.37	0.12
13400	68.30	20.82	0.12

External Document Links

Notes

Phase stabilized versions available upon request.

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