CELLFLEX® 3/8" superflexible cable; flame retardant/ halogen free jacket

FEATURES / BENEFITS

· Low Attenuation

The low attenuation of CELLFLEX® coaxial cable results in highly efficient signal transferin 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 so 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.

 Meets or Exceeds: IEC 60754-1, -2; IEC 60332-1-1, -2; IEC 61034-1, -2; IEC 60332-3-24 (formerly IEC 60332-3-C)

mm (in)

°C(°F)



3/8" CELLFLEX® Superflexible Foam Dielectric

Coaxial Cable

Technical features

Outer Conductor Material

Operation Temperature

Jacket Diameter

ADDITIONS

	Indoor	Wireless Communication	HF Defense	Microwave	Mobile Radio	Cable Solutions
	Foam-Dielectric, Superflexible					
	3/8					
	Black					
mm (in)	2.6 (0.1)					
	Copper-Clad Aluminum Wire					
mm (in)	6.3 (0.25)					
	Foam Polyethylene					
mm (in)	9.1 (0.36)					
	mm (in)	mm (in)	mm (in) Communication Formation Communication	Foam-Dielectric, 1 3/8 Black mm (in) Copper-Clad Alu mm (in) 6.3 (0.2 Foam Polye	Foam-Dielectric, Superflexible 3/8 Black mm (in) Copper-Clad Aluminum Wire mm (in) 6.3 (0.25) Foam Polyethylene	Foam-Dielectric, Superflexible 3/8 Black mm (in) Copper-Clad Aluminum Wire mm (in) Foam Polyethylene

Corrugated Copper

10.2 (0.4)

-50 to 85 (-58 to 185)

SCF38-50JFN REV: O REV DATE: 15 Dec 2023 www.rfsworld.com



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)	5.3 (1.68)	
Outer Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	5.6 (2.23)	
Return Loss (VSWR) Performance		Standard (for 40-2700, 3300-4200, 4400-5925 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)	0.12 (0.06)	
Minimum Bending Radius, Repeated Bends	mm (in)	25 (1)	
Bending Moment	Nm (lb-ft)	1.4 (1)	
Tensile Strength	N (lb)	600 (135)	
Recommended / Maximum Clamp Spacing	m (ft)	0.25 / 0.25 (0.8 / 0.8)	

SCF38-50JFN REV : O REV DATE : 15 Dec 2023 www.rfsworld.com



Frequency, MHz	dB per 100m	dB per 100ft	Power, kW
1	0.41	0.12	11.90
100	4.21	1.28	1.88
200	6.04	1.84	1.31
450	9.31	2.84	0.85
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	22.50	6.86	0.35
2400	23.70	7.21	0.33
3000	27	8.22	0.30
3500	29.50	8.22	0.29
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. Phase stabilized versions available upon request.

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