### 1-1/4" CELLFLEX® Premium Attenuation Low-Loss Foam-Dielectric Coaxial Cable

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

#### **FEATURES / BENEFITS**

#### · Low Attenuation

The low attenuation of  $CELLFLEX^{\otimes}$  coaxial cable results in highly efficient signal transfer in your RF system.

#### · Complete Shielding

The solid outer conductor of CELLFLEX<sup>®</sup> 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.

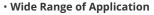
#### · Outstanding Intermodulation Performance

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,  $\mathsf{CELLFLEX}^{\otimes}$  cable provides safe long term operating life at high transmit power levels.



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/Exceeds: IEC 60754-1, -2; IEC 60332-1-1; IEC 61034-1, -2; IEC 60332-3-24; EN50575



1-1/4" CELLFLEX® Low-Loss Foam Dielectric
Coaxial Cable

#### Technical features

**Operation Temperature** 

#### **APPLICATIONS**

Applications		Indoor	Wireless Communication	TV & Radio	HF Defense	Mobile Radio	Cable Solutions
STRUCTURE							
Cable Type		Foam-Dielectric, Corrugated					
Size		1-1/4					
Jacket Option		Black					
Inner Conductor Diameter	mm (in)	13.1 (0.52)					
Inner Conductor Material		Copper Tube					
Dielectric Diameter	mm (in)	32.7 (1.29)					
Dielectric Material		Foam Polyethylene					
Outer Conductor Diameter	mm (in)	35.9 (1.41)					
Outer Conductor Material		Corrugated Copper					
Jacket Diameter	mm (in)	39 (1.54)					
Jacket Material		Polyethylene, PE, Metalhydroxite Filling					
TESTING AND ENVIRONMENTAL							
Fire Performance		Flame Retardant, LS0H					

# Installation Temperature °C(°F) -15 to 60 (5 to 140) Storage Temperature °C (°F) -70 to 85 (-94 to 185)

-50 to 85 (-58 to 185)

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°C(°F)



## 1-1/4" CELLFLEX® Premium Attenuation Low-Loss Foam-Dielectric Coaxial Cable

Impedance	Ω	50 +/- 1		
Maximum Frequency	GHz	3.7		
/elocity	%	89		
Capacitance	pF/m (pF/ft)	75 (22.9)		
nductance	uH/m (uH/ft)	0.188 (0.057)		
Peak Power Rating	kW	176		
RF Peak Voltage	Volts	4200		
acket Spark	Volt RMS	10000		
nner 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)		
Return Loss (VSWR) Performance		Standard (for 40-2700, 3300-3700 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)	0.97 (0.65)		
Minimum Bending Radius, Single Bend	mm (in)	200 (8)		
Minimum Bending Radius, Repeated Bends	mm (in)	380 (15)		
Bending Moment	Nm (lb-ft)	43 (32)		
Tensile Strength	N (lb)	2490 (560)		
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)		
ATTENUATION @ 20°C (68°F) AND I	POWER RATING	6 @ 40°C (104°F)		
Frequency, MHz	dB <sub>l</sub>	per 100m	dB per 100ft	Power, kW
100	0.82		0.25	13.50
200	1.17		0.36	9.40
450	1.81		0.55	6.07
700	2.29		0.70	4.80
800	2.47		0.75	4.45
900	2.63		0.80	4.18
1900	4		1.22	2.75
2000	4.12		1.26	2.67
2200	4.35		1.33	2.53
2500	4.69		1.43	2.34
2700		4.90	1.49	2.24
3000		5.21	1.59	2.11
3600		5.80	1.77	1.90
3700	5.90		1.80	1.86

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eb URL to CPR ressources with DoP and CE-label download folders	

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