

CELLFLEX®1-5/8" premium attenuat	ion low loss fle	xible cable				Ţ	
Ultra Low Attenuation							
The further reduced attenuation o				ults in			
extremly efficient signal transfer ir	n your RF systei	m, especially a	t high frequencies.				
Complete Shielding							
The solid outer conductor of CELL	FLEX® coaxial o	able creates a	continuous RFI/EMI sh	ield that			
minimizes system interference.							
Low VSWR Special low VSWP versions of CELL	ELEV@ convint	cables contrib	uto to low system poiss	`			
Special low VSWR versions of CELL • Outstanding Intermodulation Pe			ute to low system hoise				
CELLFLEX® coaxial cable's solid in		onductors virt	ually eliminate intermo	ods.			
Intermodulation performance is a						2 3	
factory.							
• High Power Rating							
Due to their low attenuation, outs	tanding heat tr	ansfer propert	ies and temperature st	abilized			
dielectric materials, CELLFLEX® ca	ble provides sa	ife long term o	perating life at high tra	nsmit ^I	-5/8" CELLFLEX	® LOW-LOSS F Coaxial Cable	
power levels.					(
Wide Range of Application	a alliana - fa - I	a al an a th	mentulal activity of the				
Typical areas of application are: fe							
wireless cellular, PCS and ESMR ba interconnects.	ise stations, cai	bling of antenr	ia arrays, and radio equ	upment			
• Meets/Exceeds: IEC 60754-1, -2;	IFC 60332-1-1-	IFC 61034-1	.2. IEC 60332-3-24				
• EN45545-2 CPR:	120 00352-1-1,	120 01034-1, -	2, ILC 00352-3-24				
https://www.rfsworld.com/sear	chengine/cons	structionprod	uctsregulation-cpr				
Technical features							
APPLICATIONS							
Applications		Indoor	Wireless Communication	TV & Radio	HF Defense	Mobile Radio	
STRUCTURE							
Cable Type			Foa	am-Dielectric,	Corrugated		
Size				1-5/8	3		
Jacket Option		Black					
Inner Conductor Diameter	mm (in)			17.6 (0.	69)		
Inner Conductor Material			C	orrugated Co	pper Tube		
Dielectric Diameter	mm (in)			42.4 (1.	67)		
Dielectric Material				Foam Polye	thylene		
Outer Conductor Diameter	mm (in)	46.4 (1.83)					
Outer Conductor Material		Corrugated Copper					
Jacket Diameter	mm (in)	50.2 (1.98)					
Jacket Material			Polyethy	lene, PE, Met	alhydroxite Filli	ng	
TESTING AND ENVIRONMENTAL							
Fire Performance				Flame Retard	ant, LS0H		
Installation Temperature	°C(°F)		-15 to 60 (5 to 140)				
Storage Temperature	°C (°F)			-70 to 85 (-94			
Operation Temperature	°C(°F)			-50 to 85 (-58			
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Foam Dielectric

Cable Solutions



ELECTRICAL SPECIFICATIONS	Ω		50 +/- 1			
Maximum Frequency	GHz					
/elocity	%	2.75				
Capacitance	pF/m (pF/ft)					
		74 (22.5)				
Inductance	uH/m (uH/ft)					
Peak Power Rating	kW	310				
RF Peak Voltage	Volts	5600				
Jacket Spark Inner Conductor dc Resistance	Volt RMS Ω/1000 m	10000				
	(Ω/1000 ft) Ω/1000 m					
Outer Conductor dc Resistance	(Ω/1000 ft)	0.47 (0.14)				
Return Loss (VSWR) Performance		Stamdard (for 40-2700 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)	1.25 (0.84)				
Minimum Bending Radius, Single Bend	mm (in)	200 (8)				
Minimum Bending Radius, Repeated Bends	mm (in)	500 (20)				
Bending Moment	Nm (lb-ft)	42 (31)				
Tensile Strength	N (lb)	2500 (562)				
Recommended / Maximum Clamp Spacing	m (ft)	1.2 / 1.5 (4 / 5)				
ATTENUATION @ 20°C (68°F) AND	POWER RATIN	G @ 40°C (104°F)				
Frequency, MHz	dB per 100m		dB per 100ft	Power, kW		
100	0.64		0.20	17.40		
200	0.93		0.28	12.10		
450	1.44		0.44	7.78		
300	1.98		0.60	5.66		
900	2.12		0.65	5.29		
1800	3.16		0.96	3.55		
2000	3.36		1.03	3.34		
2200	3.56		1.08	3.15		
2400	3.75		1.14	2.99		
2700	4.02		1.23	2.79		
2750	4.07		1.24	2.75		
xternal Document Links			Notes			
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