

CELLFLEX® 3/8" low loss flexible cab		
	le support CBRS	, C-Band and LAA up to 6GHz
FEATURES / BENEFITS		
Ultra Low Attenuation		
		ial cable results in extremly efficient signal
transfer in your RF system, e	especially at high	Trequencies.
Complete Shielding     The solid outer conductor of		xial cable creates a continuous RFI/EMI shield
that minimizes system inter		
• Low VSWR	lerence.	
	of CELLFLEX® coa	ixial cables contribute to low system noise.
Outstanding Intermodulation P		
_		ter conductors virtually eliminate intermods.
		ned with state-of-the-art equipment at the RFS
Technologies factory.		
<ul> <li>High Power Rating</li> </ul>		
	-	at transfer properties and temperature
	s, CELLFLEX® cal	ble provides safe long term operating life at
high transmit power levels.		
• Wide Range of Application	<b>C</b> 111 <b>C</b>	
		· broadcast and terrestrial microwave antennas, s, cabling of antenna arrays, and radio
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equipment interconnects External Document Links		Notes
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equipment interconnects External Document Links CELLFLEX Drum Selection Guide		
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equipment interconnects External Document Links CELLFLEX Drum Selection Guide Technical features INFORMATION Applications STRUCTURE Size Inner Conductor Diameter Inner Conductor Material		Notes         OEM jumpers, BTS inter-cabinet connections, GPS lines, Microwave IF cabling, intended for outdoor usage         3/8         3.1 (0.122)
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LCF38-50J



Phase Stabilized		Phase stabilized and phase matched cables and accessories are available upon request.	
Compliance		DIN EN ISO 9001:2015 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)	
ELECTRICAL SPECIFICATIONS			
Impedance	Ω	50 +/- 1.5	
Maximum Frequency	GHz	13.5	
Velocity	%	88	
Capacitance	pF/m (pF/ft)	76 (23.2)	
Inductance	uH/m (uH/ft)	0.19 (0.058)	
Peak Power Rating	kW	15.4	
RF Peak Voltage	Volts	1240	
Jacket Spark	Volt RMS	5000	
Inner Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	3.8 (1.16)	
Outer Conductor dc Resistance	Ω/1000 m (Ω/1000 ft)	2.9 (0.88)	
Passive Intermodulation PIM	min. dBc	-160	
Return Loss (VSWR) Performance		20 (1.22) @ 450-617 MHz 24 (1.13) @ 617-960 MHz 24 (1.13) @ 1695-2200 MHz 20 (1.22) @ 2300-2700 MHz 18 (1.28) @ 3500-4200 MHz 16 (1.37) @ 5150-6000 MHz	
MECHANICAL SPECIFICATIONS			
Cable Weight, Nominal	kg/m (lb/ft)	0.13 (0.087)	
Minimum Bending Radius, Single Bend	mm (in)	50 (2)	
Minimum Bending Radius, Repeated Bends	mm (in)	95 (4)	
Bending Moment	Nm (lb-ft)	1.9 (1.4)	
Tensile Strength	N (lb)	530 (119)	
Recommended / Maximum Clamp Spacing	m (ft)	0.5 / 1 (1.75 / 3.25)	

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Frequency, MHz	dB per 100m	dB per 100ft	Power, kW
1	0.34	0.1	21.59
100	3.43	1.04	2.12
200	4.89	1.49	1.48
450	7.44	2.27	0.97
700	9.38	2.86	0.77
800	10.06	3.07	0.72
900	10.71	3.27	0.68
1800	15.54	4.74	0.47
2000	16.45	5.01	0.44
2200	17.33	5.28	0.42
2400	18.17	5.54	0.40
2700	19.39	5.91	0.37
3000	20.55	6.26	0.35
3500	22.39	6.82	0.32
4000	24.12	7.35	0.3
5000	27.35	8.34	0.27
13500	48.8	14.88	0.15