

## 1-5/8" Leaky Feeder Cable

Low smoke, Halogen-free, Fire retardant  
50 Ohm radiating coaxial cable



Our 1-5/8" foam dielectric, radiating leaky feeder coaxial cable has specifications and attenuation performance to match or surpass all other brands available on the market. This coaxial cable is available in 500 metre rolls, please consult ZCG for more information.



Specifications			
Order code	ZCG1580LF-500 - 500m roll/reel		
Centre conductor	Helical copper tube - 18.00mm (0.7086")		
Dielectric	Physical foam polyethylene (PE) - 42.80mm (1.6850")		
Outer conductor	Overlapping copper foil - 43.50mm (1.7126")		
Jacket	Black low smoke halogen free, fire-retardant polyethylene (PE), 48.0mm (1.8898")		
Mechanical specifications			
Minimum bend radius	Single: 250mm	Repeated: 450mm	
Minimum distance to wall	50mm		
Weight	93kg per 100 metres		
Operating temperature	-55°C to +85°C	Relative Humidity	95%
Tensile Strength	3000 N		
Electric specifications			
Impedance	50 Ohm		
Nominal capacitance	75.0pF/m		
Velocity of propagation	89%		
VSWR	75-150MHz - <1.3:1 300-500MHz - <1.3:1 800-960MHz - <1.3:1 1700-2170MHz - <1.3:1 2300-2700MHz - <1.3:1		
Insulation resistance	>10000MΩ km		
Jacket spark	10 kV		
Insulation voltage	15 kV		
Inner conductor DC resistance	1.50 Ω km		
Outer conductor DC resistance	1.6 Ω km		
Stop band	1085-1150MHz & 2170-2300MHz		
Operating frequency band	75-2700MHz		
Optimum operating frequency band	700-2700MHz		



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Frequency MHz	Attenuation		Coupling Loss (2m)	
	dB/100m	dB/100ft	50% (dB)	95% (dB)
75	0.60	0.18	70	79
100	0.70	0.21	70	81
150	0.90	0.27	78	90
700	1.90	0.58	74	77
800	2.10	0.64	70	73
900	2.30	0.70	69	72
960	2.40	0.73	69	72
1800	3.60	1.10	64	67
1900	3.90	1.19	63	66
2000	4.10	1.25	63	66
2100	4.30	1.31	62	65
2400	5.00	1.52	61	65
2600	5.60	1.71	62	64
2620	5.80	1.77	62	65
2700	6.30	1.92	63	66



Standard Conditions	
Fire retardancy	IEC 60332-1
Smoke Index	IEC 61034
Toxicity Index	IEC 60754-1/60754-2
Attenuation	IEC 61196-4
Coupling loss	IEC 61196-4