



7/8" Leaky Feeder Cable

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



Our 7/8" 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.



7/8" flexible, radiating 'leaky feeder' coaxial cable

Order code	ZCG7850LF-500 - 500m roll/reel
Centre conductor	Smooth copper tube - 9.45mm (0.3720")
Dielectric	Physical foam polyethylene (PE) - 22.8mm (0.8976")
Outer conductor	Overlapping copper foil - 23.5mm (0.9370")
Jacket	Black low smoke halogen free, fire-retardant polyethylene (PE), 27.2mm (1.0709")

Mechanical specifications

Minimum bend radius	Single: 90mm	Repeated: 250mm
Minimum distance to wall	50mm	
Weight	47.5kg per 100 metres	
Operating temperature	-55°C to +85°C	Relative Humidity 95%
Tensile strength	1000 N	

Electric specifications

Impedance	50 Ohm
Nominal capacitance	75.0pF/m
Velocity of propagation	89%
VSWR	75-150 MHz - <1.3:1 300-500 MHz - <1.3:1 800-960 MHz - <1.3:1 1700-2170 MHz - <1.3:1 2300-2700 MHz - <1.3:1
Insulation resistance	>10000MΩ km
Jacket spark	8 kV
Insulation voltage	6 kV
Inner conductor DC resistance	1.80 Ω km
Outer conductor DC resistance	3.20 Ω km
Stop band	1085-1150 MHz & 2170-2300 MHz
Operating frequency band	75-2700 MHz
Optimum operating frequency band	700-2700 MHz





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Frequency MHz	Attenuation		Coupling Loss (2m)	
	dB/100m	dB/100ft	50% (dB)	95% (dB)
75	1.20	0.37	70	79
100	1.40	0.43	70	81
150	1.60	0.49	78	89
700	3.60	1.10	73	77
800	3.80	1.16	70	73
900	4.10	1.25	69	72
960	4.20	1.28	69	71
1800	6.50	1.98	65	68
1900	6.90	2.10	64	67
2000	7.20	2.20	63	66
2100	7.50	2.29	62	65
2400	8.50	2.59	62	65
2600	9.40	2.87	62	66
2620	9.60	2.93	62	66
2700	10.60	3.23	62	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

