



DEVIKRUPA ELECTRONICS

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RF Cable 3/8" S(HRCAY-50-7)

* Construction

Item	Diameter	Material
Inner conductor	2.6mm	Copper clad aluminum wire or copper wire
Insulation	7.0mm	Foamed polyethylene
Outer conductor	9.0mm	Annular corrugated copper tube
Jacket	10.5mm	Polyethylene



* Mechanical characteristics

Item	Specification	Remarks
Static minimum bending radius	12.5mm	Single bend
Dynamic minimum bending radius	25mm	Repeated 15 times
Tensile strength	600N	
Cable weight	150kg/km	

* Electrical characteristics

Item	Specification	Remarks
Characteristic impedance	50 ± 1 Ω	
Velocity	81%	Nominal value
Minimum Insulation resistance	5000MΩ.km	DC 500V 1 minute
Capacitance	82pF/m	Nominal value
Dielectric strength	DC2500V	1 minute
Peak power rating	13.4kW	
RF peak voltage	1200V	
VSWR typical value	1.15	10M-3000MHz
	1.08	800M-1000MHz
	1.08	1700M-2000MHz
	1.08	2100M-2400MHz

* Attenuation & Average power rating

Frequency (MHz)	Attenuation (dB/100m)	Average power (kw)	Frequency (MHz)	Attenuation (dB/100m)	Average power (kw)
10	1.30	6.0	1800	19.64	0.407
100	4.09	1.87	1900	20.35	0.396
150	4.89	1.52	2000	21.06	0.384
200	5.59	1.31	2100	21.77	0.374
300	6.84	1.06	2200	22.46	0.364
450	8.49	0.86	2400	23.55	0.350
500	9.00	0.81	2500	24.51	0.340
700	10.90	0.678	2700	25.85	0.325
800	11.79	0.631	3000	27.82	0.306
900	12.66	0.593	4000	34.17	0.260
1000	13.50	0.560	5000	40.24	0.229
1500	17.43	0.449	6000	46.13	0.206
1700	18.91	0.420	8000	57.50	0.174