



Flexible Low Loss RF Cables - 50 Ohms

Specifications:

- Impedance: 50 ohms
- Foamed Polyethylene
- 100% Bonded Aluminum Foil
- Tinned Copper Braid - CuSn
- Flame-retardant UV rated PVC
- UV Rated Polyethylene Jacket
- Ft markings



Type		RFC100A	RFC195	RFC240	RFC400	RFC600
Item no.	500ft	NA	NA	NA	RFC400-500	RFC600-500
Item no.	1000ft	RFC100A-1000	RFC195-1000	RFC240-1000	RFC400-1000	RFC600-1000
Centre Conductor	Ø mm	0.46 Solid BCCS	0.94 Solid BC	1.42 Solid BC	2.74 Solid CCA	4.47 Solid CCA
Insulation	Ø mm	1.52	2.8	3.81	7.24	11.56
1st Shielding	Type	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil
1st Outer Conductor	Ø mm	0.10 x 80 CuSn	0.11 x 112 CuSn	0.12 x 144 CuSn	0.15 x 192 CuSn	0.18 x 240 CuSn
Outer Jacket	Type	outdoor UV rated PVC	outdoor UV rated PVC	outdoor UV rated PVC	outdoor UV rated PE	outdoor UV rated PE
	Ø mm	2.79	4.95	6.1	10.29	14.99
Min. Bending Radius	Ø mm	6.4	12.7	19.1	25.4	38.1
Tensile Strength	kg	6.8	18.2	36.3	72.5	158.9
Attenuation (20 °C, dB/100 ft)	f = 30 MHz	3.93	1.98	1.34	0.67	0.43
	f = 50 MHz	5.09	2.56	1.74	0.88	0.55
	f = 100 MHz	7.25	3.66	2.50	1.31	0.85
	f = 150 MHz	8.96	4.45	3.02	1.52	0.98
	f = 220 MHz	10.91	5.39	3.66	1.86	1.19
	f = 450 MHz	15.82	7.77	5.27	2.71	1.71
	f = 900 MHz	22.83	11.12	7.56	3.90	2.50
	f = 1500 MHz	30.08	14.54	9.88	5.12	3.32
	f = 1800 MHz	33.22	16.00	10.85	5.67	3.69
	f = 2000 MHz	35.20	16.89	11.49	5.97	3.90
f = 2500 MHz	39.80	19.02	12.92	6.77	4.42	
f = 3000 MHz	43.83	21.00	14.36	7.62	5.06	
DC Resistance (Centre Conductor)	Ω /km	266	24.94	10	3.07	1.74
DC Resistance (Outer Conductor)	Ω /km	31.2	16	12.76	6.88	3.94
Insulation Resistance	Ω /km	5000	5000	5000	5000	5000
Dielectric Strength	Kv	1.6	1.6	1.6	1.6	1.6
Velocity ratio	%	66%	80%	85%	87%	87%
Peak Power Rating	Kw	0.60	2.5	5.60	16	40
Cut Off Frequency	GHz	90	41	31	16.2	10.3
Voltage Withstand	VDC	500	1000	1500	2500	4000
Capacitance		101.1pF +/- 3 per M	79.7pF +/- 3 per M	79.4pF +/- 3 per M	78.4pF +/- 3 per M	76.8pF +/- 3 per M
Screening factor at 1 - 1000MHz		> 90dB	> 90dB	> 90dB	> 90dB	> 90dB
Admissible ambient temperature	°C	-40 °C to 80 °C	-40 °C to 80 °C	-40 °C to 80 °C	-40 °C to 80 °C	-40 °C to 80 °C
Packing		Wood Spool	Wood Spool	Wood Spool	Wood Spool	Wood Spool