Flexible Low Loss RF Cables - 50 Ohms

FEATURES:

Flexible low loss communications cable as drop in replacement for RG316, RG174, RG58, RG8X & RG8U, offered in competitive prices as RFC100A, RFC195, RFC240, RFC400, RFC400UF & RFC600.

Type		RFC100A	RFC195	RFC240	RFC400	RFC400UF	RFC600
Item no.	500ft	NA	NA	NA	RFC400-500	NA	RFC600-500
Item no.	1000ft	RFC100A-1000	RFC195-1000	RFC240-1000	RFC400-1000	RFC400UF-1000	RFC600-1000
SPECIFICATIONS							
Center Conductor	Material	Solid BCCS	Solid BC	Solid BC	Solid CCA	Stranded BC	Solid CCA
	mm	0.46	0.94	1.42	2.74	2.74	4.47
Insulation	Material	Sold Polyethylene	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene	Foamed Polyethylene
	mm	1.52	2.8	3.81	7.24	7.24	11.56
1st Outer Conductor	Material	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil
	mm	1.65	2.95	3.94	7.39	7.39	11.71
2nd Outer Conductor	Material	CuSn (Tinned Copper)	CuSn (Tinned Copper)	CuSn (Tinned Copper)	CuSn (Tinned Copper)	CuSn (Tinned Copper)	CuSn (Tinned Copper)
	mm	0.10 x 80	0.11 x 112	0.12 x 144	0.15 x 192	0.15 x 192	0.18 x 240
Outer Jacket	Material	PVC	PVC	PVC	PE	Thermoplastic Elastomer	PE
	mm	2.79	4.95	6.1	10.29	10.29	14.99
Min. Bending Radius	Ø mm	6.4	12.7	19.1	25.4	25.4	38.1
Tensile Strength	kg	6.8	18.2	36.3	72.5	72.6	158.9
Attenuation (20 °C, dB/100 ft)	f = 30 MHz	3.93	1.98	1.34	0.67	0.80	0.43
	f = 50 MHz	5.09	2.56	1.74	0.88	1.10	0.55
	f = 100 MHz	7.25	3.66	2.50	1.31	1.44	0.85
	f = 150 MHz	8.96	4.45	3.02	1.52	1.80	0.98
	f = 220 MHz	10.91	5.39	3.66	1.86	2.20	1.19
	f = 450 MHz	15.82	7.77	5.27	2.71	3.30	1.71
	f = 900 MHz	22.83	11.12	7.56	3.90	4.70	2.50
	f = 1500 MHz	30.08	14.54	9.88	5.12	6.20	3.32
	f = 1800 MHz	33.22	16.00	10.85	5.67	6.80	3.69
	f = 2000 MHz	35.20	16.89	11.49	5.97	7.20	3.90
	f = 2500 MHz	39.80	19.02	12.92	6.77	8.10	4.42
	f = 3000 MHz	43.83	21.00	14.36	7.62	9.40	5.06
	f = 5800 MHz	64.1	29.9	20.4	10.8	13.00	7.3
DC Resistance (Centre Conductor)	Ω /km	266	24.94	10	3.07	3.51	1.74
DC Resistance (Outer Conductor)	Ω /km	31.2	16	12.76	6.88	5.4	3.94
Insulation Resistance	Ω /km	5000	5000	5000	5000	5000	5000
Dielectric Strength	Kv	1.6	1.6	1.6	1.6	1.6	1.6
Velocity ratio	%	66%	80%	85%	87%	85%	87%
Peak Power Rating	Kw	0.60	2.5	5.60	16	16	40
Cut Off Frequency	GHz	90	41	31	16.2	16.2	10.3
Votage Withstand	VDC	500	1000	1500	2500	2500	4000
Capacitance		101.1pF +/- 3 per M	79.7pF +/- 3 per M	79.4pF +/- 3 per M	78.4pF +/- 3 per M	78.4pF +- 3 per M	76.8pF +/- 3 per M
Screening factor at 1 - 1000MHz		> 90dB	> 90dB	> 90dB	> 90dB	> 90dB	> 90dB
Admissible ambient temperature	°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Packing		Wood Spool	Wood Spool	Wood Spool	Wood Spool	Wood Spool	Wood Spool