

RF CABLE SPECIFICATIONS



CABLE TYPE		50Ω CABLES							
		0,81	1,13	RG 178	CTB-2650F-1	RG 174	RG 316	RG 58	
Impedance	Ω	50 ± 3	50 ± 2	50 ± 2	50 ± 2	50 ± 5	50 ± 2	50 ± 3	
Attenuation (dB/m)	100 MHz	1.0	0.6	0.5	0.68	0.4	0.3	0.2	
	1 GHz	3.1	1.9	1.7	2.37	1.4	1.25	0.8	
	6 GHz	8.6	4.9	5.9	6.53	4.4	4.25	5.4	
Dielectric Constant (dk)	-----	2.0	2.0	2.1	1.56	2.3	2.1	2.3	
Dielectric Strength	VAC	1000	500	1000	-----	500	1200	1400	
Propagation Delay	nS/m	4.70	4.70	4.83	4.17	5.06	4.83	5.05	
Current Rating	Amps	-----	-----	3	2.5	5	5	-----	
Capacitance	pF/m	100	95	89.61	85.6	101	96	101	
Center Conductor	Material	Silver plated Copper	Silver plated Copper	Silver plated Copper Clad Steel	Silver plated Copper	Copper	Silver and Copper plated Steel	Tinned Copper	
	AWG	36	32	30	26	26	26	20	
	Stranding (No./mm)	7/0.05	7/0.08	7/0.10	19/0.10	7/0.16	7/0.17	19/.018	
	Diameter (mm)	0.15	0.24	0.3	0.48	0.48	0.51	0.90	
	Max Resistance (Ω/m)	1.40	0.60	0.34	0.12	0.14	0.13	-----	
Dielectric	Material	FEP	FEP	PTFE	Foamed FEP	LEP	PTFE	Solid Polyethylene	
	Diameter (mm)	0.4	0.66	0.84	1.27	1.45	1.52	2.95	
Shield	Material	Silver plated Copper	Tinned Copper	Silver plated Copper	Silver plated Copper	Tinned Copper	Silver plated Copper	Tinned Copper	
	Diameter (mm)	0.65	0.88	1.29	1.5	1.95	1.93	3.0	
Jacket	Material	FEP	FEP	FEP	FEP	PVC	FEP	PVC	
	Diameter (mm)	0.81	1.13	1.80	1.80	2.70	2.54	4.95	
	Temp Rating	-40°C to +90°C	-40°C to +90°C	-50°C to +200°C	-40°C to +200°C	-40°C to +85°C	-55°C to +200°C	-40°C to +85°C	
	Color	Gray	Gray	Brown	Blue	Black	Brown	Black	
Bend Radius	Min	5mm	6.8mm	10.2mm	3.175mm	25.4mm	12.7mm	48.3mm	
Termination Options		MHF1, MHF3, SMA	MHF1, SMA	MMCX, MCX, SMA, SSMB, BNC, TNC		MMCX, MCX, SMA, SMB, SSMB, BNC, TNC, N TYPE		SMA, TNC, N TYPE	
Samtec Series		MH081	MH113	RF178, EQRF	IJ5C	RF174	RF316, EQRF, IJ5C, IJ5H, GRF1, ACP, ACR	RF058	



50Ω MICROWAVE CABLES				75Ω CABLES					100Ω CABLES
CCA-25M	MWC-2550-01	RG 405 (.086")	RG 402 (.141")	TCF-3075F-01-01	RG 179	BELDEN 1855A	BELDEN 1694A	RG 6	CCS-155709-01-PP
50 ± 1	50 ± 1	50 ± 1	50 ± 2	75 ± 3	75 ± 3	75 ± 3	75 ± 3	75 ± 3	100 ± 3
0.85 @ 1 GHz	0.86 @ 1 GHz	1.20 @ 1 GHz	0.48 @ 1 GHz	1.30 @ 2 GHz	0.3	0.12	0.07	0.07	0.37
1.75 @ 4 GHz	1.70 @ 4 GHz	2.59 @ 4 GHz	1.04 @ 4 GHz	1.80 @ 4 GHz	0.8	0.37	0.21	0.21	1.67
4.18 @ 20 GHz	4.06 @ 20 GHz	6.30 @ 20 GHz	2.76 @ 20 GHz	2.40	3.6	0.97	0.59	0.59	11.05
1.3	2.1	2.04	1.99	1.61	1.8	1.42	1.44	1.44	2.3
-----	-----	1000	1000	-----	1200	300	300	2000	-----
3.84	3.84	4.79	4.79	4.23	4.83	4.12	4.06	4.03	4.62
5	5	-----	-----	2.1	3	5	-----	-----	-----
75	75	96.79	96.79	58.5	64	55.7	54.14	54.14	44.8
Silver plated Copper	Silver plated Copper	Silver plated Copper Clad Steel	Silver plated Copper Clad Steel	Silver plated Copper	Silver plated Copper	Bare Copper	Bare Copper	Bare Copper	Silver plated Copper
25	25	24	19	30	30	23	18	18	28
1/0.45	1/0.46	1/0.56	1/0.92	7/0.10	7/0.10	1/0.58	1/1.02	1/1.02	41/0.05
0.45	0.46	0.56	0.92	0.30	0.30	0.58	1.02	1.02	0.36
-----	-----	0.67	0.02	0.33	0.34	0.066	0.021	0.021	0.270
Air Enhanced FEP	Solid FEP	PTFE	PTFE	Foamed FEP	PTFE	FHDPE	FHDPE	FHDPE	PTFE
1.17	1.17	1.68	2.98	1.4	1.6	2.59	4.57	4.57	-----
1. Helically Overlapped Ag plated Cu 2. Silver plated Copper Braid	1. Flat Silver plated Copper 2. Silver plated Copper Braid	Tinned Copper	Tinned Copper	1. Copper Foil 2. Tinned Copper	Silver plated Copper	1. Al Foil-Polyester Tape-Al Foil 2. Tinned Copper	1. Bonded Al Foil 2. Al Wire	1. Al Foil-Polyester Tape-Al Foil 2. Tinned Copper	Silver plated Copper Braid
1.6	1.6	2.20	3.58	1.73	2.0	3.5	-----	-----	2.39
FEP	FEP	-----	-----	PVC	FEP	PVC	PVC	PVC	PVC
1.9	1.9	-----	-----	2.16	2.54	4.04	6.96	7.00	3.66
-65°C to +200°C	-65°C to +200°C	-70°C to +200°C	-70°C to +200°C	-40°C to +105°C	-55°C to +165°C	-30°C to +75°C	-30°C to +75°C	-30°C to +75°C	-----
Brown	Blue	-----	-----	Blue	Brown	Black	Black	Black	Black
9mm	9mm	6.35mm	3.18mm	5mm	10.2mm	38.1mm	69.85mm	69.85mm	9.52mm
SMA, SMP		SMA, SMP	SMA	MMCX	MCX, SMB, BNC, Mini BNC, DIN 1.0/2.3	Mini BNC, HD-BNC™, DIN 1.0/2.3	BNC, Mini BNC, HD-BNC™, DIN 1.0/2.3		CJT
PCRf, ATEP, RF25M, BE25M	RF25S, BE25S	RF405	RF402	RF30S, IJ7C	RF179, IJ7C, GRF7	RFB8T	RFB6T	RFA6T	C28T