



Line	RG#	Mfg.#	Cable Type	Construction Planning Characteristics													Performance Planning Characteristics													
				Temp Range		f <sub>max</sub>	Inner Conductor	Ød"	Dielectric	Dia" <sub>o</sub>	Vel. Of Prop.	Delay	Outer Conductor	ØD"	Jacket	OD"	Shield Coverage	Weight	Operating Voltage	Voltage Withstanding	Corona Extinction	Attenuation				Nominal Capacitance	Recommended Connectors	Min. Sugg. Bend Radius	Structural Return Loss	
				Min.	Max.																	Ω	°C	°C	GHz					V <sub>p</sub>
<b>Flexible Cable</b>																														
1	58		Flexible Coax	50	-40	85	1	Stranded Tinned Copper	0.0320	PE	0.1160	66.0%	n/a	Single Braid 36 AWG TPC	0.150	PVC	0.195	95%	0.026	1400	5000	1900	.17 @ 4 GHz	.28 @ 1 GHz			32.2	TNC, BNC, SMA	1.00	24 @ 1 GHz
2	142		Flexible Coax	50	-55	200	12.4	Silver Covered Copper Clad Steel	0.0359	PTFE	0.1160	69.5%	n/a	Double Braid	0.1710	FEP	0.195	95%	0.047	1400	5000	1900	.117 @ 4 GHz	.19 @ 1 GHz	.35 @ 3 GHz	.66 @ 8 GHz	29.4	TNC, BNC, SMA	1.00	17 @ 8 GHz
3	142 ALT	SF142	SF142, Flexible Coax	50	-55	200	34	Silver Covered Copper Clad Steel	0.0370	PTFE	0.1160	70.0%	1.46	3-layer Comp Shield	0.128 0.133 0.156	FEP	0.195	95%	0.043	1900	5000	1900	.074 @ 4 GHz	.122 @ 1 GHz	.47 @ 10 GHz	.68 @ 18 GHz	29.4	TNC, BNC, SMA	1.00	Use RG 142 for planning
4	174		Flexible Coax	50	-40	80	1	Stranded Copper Clad Steel	0.0190	PE	0.0590	66.0%	1.541	Single Braid	0.078	PVC	0.110	90%	0.008	1500	2000	1500	.19 @ 4 GHz	.34 @ 1 GHz			30.8	SMA, SMB	1.00	19.4 @ 1 GHz
5	214		Flexible Coax	50	-40	85	11	Stranded Silver Covered Copper	0.0890	PE	0.2850	66.0%	1.541	Double Braid	0.360	PVC	0.425	97%	0.128	3700	10000	5000	.041 @ 4 GHz	.08 @ 1 GHz	.38 @ 4 GHz	.6 @ 11 GHz	30.8	N, C, SC	1.00	17 @ 11 GHz
6	316		Flexible Coax	50	-70	200	3	Stranded Silver Covered Copper Clad Steel	0.0201	PTFE	0.0600	69.5%	1.455	Single Braid	0.081	FEP	0.098	95%	0.012	900	2000	1200	.175 @ 4 GHz	.29 @ 1 GHz			29.4	SMA, SMB, SMC	1.00	17 @ 3 GHz
7	316 ALT	SF316	Flexible Coax	50	-55	200	65	Stranded Silver Covered Copper Clad Steel	0.0201	PTFE	0.0600	70.0%	1.46	3-layer Comp Shield	0.070 0.075 0.093	FEP	0.110	95%	0.013	1200	2000	1200	.164 @ 4 GHz	.263 @ 1 GHz	.91 @ 10 GHz	1.29 @ 18 GHz	29.4	SMA, SMB, SMC	0.50	Use RG 316 for planning
8	152	RD316	Double Shielded	50	-55	200	12.4	Stranded Silver Covered Copper Clad Steel	0.0201	PTFE	0.0600	69.5%	1.46	Double Braid	0.079 0.088	FEP	0.114	95%	0.019	1200	2000	1200	.179 @ 4 GHz	.296 @ 1 GHz	.424 @ 2 GHz		29.4	SMA, SMB, SMC	1.00	Use RG 316 for planning
9		LL142	Flexible Low-loss Coax	50	-55	200	32.9	Solid copper, silver-coated	0.0510	T-PTFE	0.1450	80.0%	1.25	3-layer Comp Shield	0.152 0.158 0.174	FEP	0.195	95%	0.044	1900	900	1900	.065 @ 4 GHz	.10 @ 1 GHz	.30 @ 10 GHz	.40 @ 18 GHz	25.0	SMA, 2.9mm	1.00	
10		LL335	Flexible Low-loss Coax	50	-55	200	18	Solid copper, silver-coated	0.0890	T-PTFE	0.2500	80.0%	1.25	3-layer Comp Shield	0.258 0.264 0.284	FEP	0.335	95%	0.124	3200	900	3200	.035 @ 4 GHz	.055 @ 1 GHz	.19 @ 10 GHz	.26 @ 18 GHz	25.0	SMA	1.70	
11		IW 1801	Flexible Low-loss Coax	50	-65	135	34	Solid copper, silver-coated		Microporous PTFE	w/a	84.0%	1.2	Silver Foil Single Braid	n/a	FEP	0.190	95%	0.033	1000	335	2000	.085 @ 1 GHz	.26 @ 10 GHz	.37 @ 20 GHz		24.0	SMA, 2.9mm	1.00	Use 15.5 for planning
12		IW 2801	Flexible Low-loss Coax	50	-65	200	19.5	Solid copper, silver-coated	0.0880	Microporous PTFE	0.2370	84.0%	1.2	Silver Foil Single Braid	0.243 0.262	FEP	0.290	95%	0.078	1000	335	2000	.050 @ 1 GHz	.15 @ 10 GHz	.20 @ 20 GHz		24.0	SMA	1.75	Use 15.5 for planning
<b>Conformable Cable</b>																														
13	405 ALT	1671A	086 Tinned Braid	50	-70	200	40	Solid steel, silver-coated, copper clad	0.0201	PTFE	0.0620	70.0%	1.46	Copper-Tin Comp Shield	0.085	Jacket is outer cond		100%	0.012	1500	5000	1500	.15 @ 5 GHz	.225 @ 1 GHz	.885 @ 10 GHz	1.3 @ 20 GHz	29.5	SMA	0.38	15 @ 20 GHz
14	402 ALT	1673A	141 Tinned Braid	50	-70	200	34	Solid steel, silver-coated, copper clad	0.0362	PTFE	0.1160	70.0%	1.46	Copper-Tin Comp Shield	0.138	Jacket is outer cond		100%	0.020	1900	5000	1900	.095 @ 5 GHz	.145 @ 1 GHz	.54 @ 10 GHz	.84 @ 20 GHz	29.3	TNC, SMA	0.75	21 @ 18 GHz
<b>Semirigid Cable</b>																														
15		047Cu	047 Copper Semirigid	50	-55	100	40	Solid steel, silver-coated, copper clad	0.0113	PTFE	0.0370	69.5%	1.455	Tin-plated Copper Tubing	0.0470	Jacket is outer cond		100%	0.005	1000	2000	1000	.28 @ 5 GHz	.40 @ 1 GHz	1.30 @ 10 GHz	1.90 @ 20 GHz	32 max	SMA	0.05	14 @ 20 GHz
16	405 ALT	086 TP Cu	086 Copper Semirigid	50	-55	125	40	Solid steel, silver-coated, copper clad	0.0201	PTFE	0.0660	69.5%	1.455	Tin-plated Copper Tubing	0.0865	Jacket is outer cond		100%	0.016	1500	5000	1500	.15 @ 5 GHz	.22 @ 1 GHz	.80 @ 10 GHz	1.20 @ 20 GHz	32 max	SMA	0.05	15 @ 20 GHz
17	405 ALT	086LL	086 Cu Low-loss Semirigid	50	-55	200	60	Solid copper, silver-coated	0.0255	T-PTFE	0.0660	83.0%	1.22	Tin-plated Copper Tubing	0.0865	Jacket is outer cond		100%	0.014	1500	5000	1500	.14 @ 1 GHz	.53 @ 10 GHz	.82 @ 20 GHz		32 max	SMA	0.13	15 @ 20 GHz
18	402 ALT	141 TP Cu	141 Copper Semirigid	50	-55	125	36	Solid steel, silver-coated, copper clad	0.0362	PTFE	0.1175	69.5%	1.455	Tin-plated Copper Tubing	0.141	Jacket is outer cond		100%	0.035	1900	5000	1900	.08 @ 1 GHz	.12 @ 10 GHz	.45 @ 20 GHz	.70 @ 20 GHz	29.9 max	TNC, SMA	0.25	21 @ 18 GHz
19	402 ALT	141LL	141 Cu Low-loss Semirigid	50	-55	200	40	Solid copper, silver-coated	0.0455	T-PTFE	0.1200	83.0%	1.22	Tin-plated Copper Tubing	0.141	Jacket is outer cond		100%	0.028	1000	5000	1000	.09 @ 1 GHz	.28 @ 10 GHz	.42 @ 20 GHz		29.9 max	TNC, SMA	0.63	21 @ 18 GHz
20	401 ALT	250 TP Cu	250 Copper Semirigid	50	-55	125	20	Solid copper, silver-coated	0.0641	PTFE	0.2090	69.5%	1.455	Tin-plated Copper Tubing	0.250	Jacket is outer cond		100%	0.106	3000	7500	3000	.045 @ 4 GHz	.075 @ 1 GHz	.33 @ 10 GHz	.48 @ 20 GHz	29.6 max	N, TNC	0.25	16 @ 18 GHz
21	401 ALT	250LL	250 Cu Low-loss Semirigid	50	-55	200	20	Solid copper, silver-coated	0.0740	T-PTFE	0.2090	83.0%	1.22	Tin-plated Copper Tubing	0.250	Jacket is outer cond		100%	0.103	3000	7500	3000	.07 @ 1 GHz	.203 @ 10 GHz	.340 @ 20 GHz		29.6 max	N, TNC	1.00	16 @ 18 GHz
<b>Stainless Steel Semirigid Cable</b>																														
22	405 ALT	093	093 Stainless Steel Semirigid	50	-55	125	20	Solid steel, silver-coated, copper clad	0.0201	PTFE	0.0660	69.5%	1.455	Copper Tubing	0.0720	304L	0.093	100%	0.017	1500	5000	1500	.15 @ 5 GHz	.22 @ 1 GHz	.80 @ 10 GHz	1.20 @ 20 GHz	32 max	SMA	0.05	15 @ 20 GHz
23	405 ALT	093ML	093 SS Medium Loss	50	-55	250	64	Solid copper, silver-coated	0.0226	Microporous PTFE	0.0660	76.5%	1.31	Copper Tubing	0.0720	304L	0.093	100%	0.016	1500	2500	1500	.17 @ 1 GHz	.574 @ 10 GHz	.826 @ 20 GHz		32 max	SMA	0.25	15 @ 20 GHz
24	402 ALT	145	145 Stainless Steel Semirigid	50	-55	125	20	Solid steel, silver-coated, copper clad	0.0359	PTFE	0.1175	69.5%	1.455	Copper Tubing	0.124	304L	0.145	100%	0.038	1900	5000	1900	.08 @ 5 GHz	.12 @ 1 GHz	.45 @ 10 GHz	.70 @ 20 GHz	29.9 max	TNC, SMA	0.25	21 @ 18 GHz
25	402 ALT	145ML	145 SS Medium Loss	50	-55	250	36	Solid copper, silver-coated	0.0403	Microporous PTFE	0.1175	76.5%	1.31	Copper Tubing	0.124	304L	0.145	100%	0.036	1900	5000	1900	.10 @ 1 GHz	.33 @ 10 GHz	.485 @ 20 GHz		29.9 max	TNC, SMA	0.50	21 @ 18 GHz
26	401 ALT	240	240 Stainless Steel Semirigid	50	-55	125	20	Solid copper, silver-coated	0.0641	PTFE	0.2090	69.5%	1.455	Copper Tubing	0.217	304L	0.240	100%	0.112	3000	7500	3000	.045 @ 4 GHz	.075 @ 1 GHz	.33 @ 10 GHz	.48 @ 20 GHz	29.6 max	N, TNC	0.50	16 @ 18 GHz