

CABLE DESIGN.	ARMOR O.D. MAX.	JACKET O.D. MAX.	BRAID O.D. MAX.	DIELECTRIC O.D. MAX.	CENTER CONDUCTOR		NOMINAL IMLPEDANCE OHMS	MAX FREQ GHZ	MAX. POWER WATTS AT 400 MHZ	M17/ REPLACE- MENT	NOTES
					STRANDING	O.D NOM.					
RG5B/U		8.059	6.604D	4.699	SOLID	1.295	50			73-RG212	
RG6A/U		8.534	6.705D	4.801	SOLID	0.737	75			2-RG6	
RG8A/U		10.541	8.636S	7.493	7/AWG21	2.184	52			74-RG213	
RG9B/U		10.922	9.017D	7.239	7/AWG21	2.184	50			75-RG214	
RG10A/U	12.065	10.541	8.635S	7.493	7/AWG21	2.184	52			74-RG215	
RG11A/U		10.465	8.636S	7.417	7/AWG21	1.219	75			6-RG11	
RG12A/U	12.065	10.465	8.636S	7.417	7/0.04	1.219	75			6-RG12	
RG13A/U		10.922	9.017D	7.366	7/AWG21	1.219	74			77-RG216	
RG14A/U		14.173	11.760D	9.728	SOLID	2.591	52			78-RG216	
RG17/U		22.479	19.304S	17.653	SOLID	4.775	52			79-RG218	
RG17A/U		22.479	19.304S	17.653	SOLID	4.775	52			79-RG219	
RG18/U	24.003	22.479	19.304S	17.653	SOLID	4.775	52			79-RG219	
RG18A/U	24.003	22.479	19.304S	17.653	SOLID	4.775	52			79-RG219	
RG19/U		28.829	19.304S	17.653	SOLID	4.775	52			81-00001	
RG19A/U		28.829	25.146S	23.495	SOLID	6.350	52			81-00001	
RG20/U	30.353	28.829	25.146S	23.495	SOLID	6.350	52			81-00002	
RG20A/U	30.353	28.829	25.146S	23.495	SOLID	6.350	52			81-00002	
RG21/U		8.610	6.705D	4.877	SOLID	1.295	53			162-00001	
RG21A/U		8.610	6.705D	4.877	SOLID	1.295	53			162-00001	
RG22B/U		10.922	9.017D	7.391	7/0.38	1.168	95			15-RG22	
RG55A/U		5.486	4.343D	2.946	SOLID	0.889	50			84RG223	
RG55B/U		5.232	4.470D	3.073	SOLID	0.813	53.5			84RG223	
RG58/U		5.054		3.048	SOLID	0.813	53.5			28-RG58	
RG58A/U		5.054		3.048	19/AWG33	0.965	52			28-RG58	
RG58B/U		5.054		3.048	SOLID	0.813	53.5			28-RG58	
RG5BC/U		5.054	3.810S	3.048	19/AWG33	0.968	50			28-RG58	
RG59/U		6.147	4.851S	3.810	SOLID		73			29-RG59	
RG59A/U		6.147	4.851S	3.810	SOLID	0.584	73			29-RG59	
RG59B/U		6.248	4.851S	3.810	SOLID	0.584	75			29-RG59	
RG62/U		6.324	4.851S	3.835	SOLID	0.635	93			30-RG62	
RG62A/U		6.324	4.851S	3.835	SOLID	0.635	93			30-RG62	
RG62B/U		6.324	4.851S	3.835	7/AWG28	0.635	93			30-RG62	
RG63B/U		10.541	8.636S	7.493	SOLID	0.635	125			31-RG63	
RG71B/U		6.350	5.283D	3.835	SOLID	0.635	93			90-RG71	
RG82/U		19.228		17.145	SOLID	3.175	50				
RG108A/U		6.223	4.496S(NOM)	2.083	7/AWG28		78			45-RG108	
RG114/U		10.541	8.636S	7.493	SOLID	0.178	185			47-RG114	
RG114A/U		10.541	8.636S	7.493	SOLID	0.178	185			47-RG114	
RG115/U		9.779	8.128D	6.477	7/0.71		50			168-00001	
RG115A/U		10.922	8.255D	6.604	7/AWG21	2.184	50			168-00001	
RG117/U		18.923	17.018S	15.875	SOLID	4.775	50			72-RG211	
RG117A/U		18.923	17.018S	15.875	SOLID	4.775	50			72-RG211	
RG118/U	20.193	18.923	17.018S	15.875	SOLID	4.775	50			161-00002	
RG118A/U	20.193	18.923	17.018S	15.875	SOLID	4.775	50			161-00002	
RG122/U		4.191	3.200S	2.515	27/AWG386	0.762	50			54-RG122	
RG141/U		4.953	3.708	3.073	SOLID	0.914	50			111-RG303	
RG141A/U		4.953	3.708S	3.073	SOLID	0.990	50			111-RG303	

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## CABLE GENERAL SPECIFICATION

CABLE DESIGN.	ARMOR O.D MAX.	JACKET O.D MAX.	BRAID O.D MAX.	DIELECTRIC O.D MAX.	CENTER CONDUCTOR		NOMINAL IMPEDANCE OHMS	MAX FREQ GHZ	MAX. POWER WATTS AT 400 MHZ	M17/ REPLACE-MENT	NOTES
					STRANDING	O.D NOM.					
RG142A/U		5.232	4.343D	3.073	SOLID	0.990	50			60-RG142	
RG142B/U		5.080	4.343D	3.073	SOLID	0.990	50			60-RG142	
RG143/U		8.433	6.350D	4.826	SOLID	1.448	50			112-RG304	
RG143A/U		8.433	6.350D	4.826	SOLID	1.498	50			112-RG304	
RG174/U		2.667	2.235S	1.600	7/AWG34	0.508	50			119-RG174	
RG174A/U		2.667	2.235S	1.600	7/AWG34	0.508	50			119-RG174	
RG178B/U		1.905	1.372S	0.914	7/AWG38	0.305	50			93-RG178	
RG179B/U		2.667	2.134S	1.676	7/AWG38	0.305	75			94-RG179	
RG180B/U		3.683	3.149S	2.667	7/AWG38	0.305	95			95-RG180	
RG187A/U		2.794	2.134S	1.676	7/AWG38	0.305	75			136-00001	
RG188A/U		2.794	2.057S	1.600	7/0.17	0.508	50			138-00001	
RG189/U		22.225		16.053	SOLID	6.375	50				Helix.(Nom Dims)
RG195/U		3.937	3.149S	2.667	7/0.17	0.305	95			137-00001	
RG195A/U		3.937	3.149S	2.667	7/AWG38	0.305	95			137-00001	
RG196/U		2.032	1.372S	0.914	7/0.17	0.305	50			93-00001	
RG196A/U		2.032	1.372S	0.914	7/AWG38	0.305	50				
RG210/U		6.350	4.851S	3.835	SOLID	0.635	93			97-RG210	
RG211A/U		18.923	17.018S	15.875	SOLID	4.826	50			72-RG211	
RG212/U		8.534	6.731D	4.801	SOLID	1.422	50			73-RG212	
RG213/U		10.465	8.636S	7.417	7/0.75	2.261	50			74-RG213	
RG214/U		10.973	9.144D	7.417	7/0.75	2.261	50			75-RG214	
RG215/U	12.065	10.465	8.636S	7.417	7/0.75	2.261	50			74-RG215	
RG216/U		10.973	9.144D	7.417	7/AWG26	1.219	75			77-RG216	
RG217/U		14.097	11.760D	9.652	SOLID	2.692	50			78-RG217	
RG218/U		22.352	19.304S	17.526	SOLID	4.935	50			79-RG218	
RG219/U	24.003	22.352	19.304S	17.526	SOLID	4.935	50			79-RG219	
RG220/U		28.829	25.146S	23.495	SOLID	6.604	50			81-00001	
RG221/U	30.353	28.829	25.146S	23.495	SOLID	6.604	50			81-00002	
RG222/U		8.534	6.705D	4.801	SOLID	1.422	50			162-00001	
RG223/U		5.486	4.470D	3.048	SOLID	0.889	50			84-RG223	
RG224/U	15.621	14.097	11.760D	9.652	SOLID	2.692	50			165-00002	
RG225/U		11.176	9.144D	7.366	7/0.79	2.388	50			127-RG393	
RG228/U	20.193	18.923	17.018S	15.875	SOLID	4.826	50			161-00002	
RG228A/U	20.193	18.923	17.018S	15.875	SOLID	4.926	50			161-00002	
RG301/U		6.350	5.461S	4.826	7/0.25	1.547	50			109-RG301	
RG302/U		5.232	4.470S	3.835	SOLID	0.635	75			109-RG302	
RG303/U		4.445	3.708S	3.073	SOLID	0.991	50			111-RG303	
RG304/U		7.239	6.350D	4.826	SOLID	1.499	50			112-RG304	
RG316/U		2.591	2.057S	1.600	7/0.17	0.508	50			113-RG316	
RG389/U		22.225		16.129	SOLID	6.350	50				Spline.(Nom Dims)
RG393/U		10.160	9.144D	7.366	7/0.79	2.388	50			127-RG393	
RG400/U		5.080	4.343D	3.073	19/AWG33	0.991	50			128-RG400	
RG401/U		6.375		5.359	SOLID	1.628	50			129-RG401	SEMI-RIGID
RG402/U		3.581		2.997	SOLID	0.914	50			130-RG4-2	SEMI-RIGID
RG403/U		3.251	2.489D	0.914	7/AWG38	0.305	50			131-RG403	
RG404/U		1.905	1.422S	0.914	7/AWG38	0.305	50			132-RG404	
RG405/U		2.184		1.676	SOLID	0.508	50			133-RG405	SEMI-RIGID

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## CABLE DETAIL SPECIFICATION

RG/U NUMBER	RG-178B/U	RG-196A/U	RG-188A/U	RG-316/U	RG-179B/U	RG-174A/U	NA (RG316DS)
<b>M17 NUMBER</b>	M17/93-RG178	M17/93-00001	M17/138-00001	M17/113-RG316	M17/94-RG179	M17/119-RG174	M17/152-00001
<b>DIMENSIONS(Inches)</b>							
Center Conductor	0.012	0.012	0.0201	0.0201	0.012	0.0189	0.0201
Dielectric	0.033	0.033	0.060	0.060	0.063	0.060	0.060
Outer Conductor	0.054	0.054	0.081	0.081	0.084	0.088	0.096
Jacket	0.071	0.071	0.098	0.098	0.100	0.110	0.114
<b>MATERIAL</b>							
Center Conductor	Silver-Coated Annealed Copper- Covered Steel	Silver-Coated Annealed Copper- Covered Steel	Silver-Coated Annealed Copper- Covered Steel	Silver-Coated Annealed Copper- Covered Steel	Silver-Coated Copper-Covered Steel	Copper-Covered Steel Wire	Silver-Coated Annealed Copper- Covered Steel
Dielectric	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PE Type A-1	PTFE Type F-1
Outer Conductor	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Tinned Copper Wire	Silver-Coated Copper Wire
Jacket	FEP Type IX	PFA Type XIII	PFA Type XIII	FEP Type IX	FEP Type IX	PVC Type IIA	FEP Type IX
<b>CABLE CONSTRUCTION</b>							
Center Conductor	7 Strands of 0.0040	7 Strands of 0.0040	7 Strands of 0.0067	7 Strands of 0.0067	7 Strands of 0.0040	7 Strands of 0.0063	7 Strands of 0.0067
Dielectric	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Outer Conductor	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Double-Braid of AWG 38
<b>WEIGHT(Max.lbs./100 ft)</b>	0.625	0.625	1.22	1.22	1.08	0.95	1.85
<b>TEMPERATURE RATINGS</b> (Min. to Max., C°)	-55 to +200	-55 to +230	-55 to +230	-55 to +200	-55 to +200	-40 to +85	-55 to +200
<b>FREQUENCY(Max. GHz)</b>	3.0	3.0	3.0	3.0	3.0	1.0	12.4
<b>ATTENUATION(dB/100 ft)</b>							
Frequency(MHz) 400	27.5	27.5	21	20	21	17.5	NA
1000	45	45	38	30		31	40
3000	78	78	58	58		64.3	75
5000	115	115	NA	79		97	108
10000	172	172	NA	133		185	170
<b>POWER HANDLING(Watts)</b>							
Frequency(MHz) 400	123	123	220	240	420	25	NA
1000	78	78	130	160	260	16	130
3000	41	41	78	80	125	NA	75
5000	28	28	NA	57		NA	NA
10000	14	14	NA	30		NA	45
<b>VSWR(Max.)</b>							
Frequency(MHz) 500	1.2	1.2	1.16	1.15		1.22	1.1
1000	1.25	1.25	1.2	1.2		1.24	1.15
3000	1.5	1.5	1.33	1.33		NA	1.22
10000	NA	NA	NA	NA		NA	1.38
<b>VOLTAGE RATING(Volts RMS)</b>							
Continuous Working Voltage(Max.)	750	750	900	900	900	1100	900
Voltage Withstanding(+10% -0%)	2000	2000	2000	2000	2000	2000	2000
Corona Extinction Voltage(Min.)	1200	1200	1200	1200	1200	1500	1200
<b>CHARACTERISTIC</b>							
Impedance(Ohms)	50	50	50	50	75	50	50
<b>MINIMUM INSIDE BEND</b> (Radius, In.)							
<b>VELOCITY OF PROPAGATION</b> (Nom., %)	69.5	69.5	69.5	69.5	69.5	66	69.5
<b>SHIELDING EFFICIENCY, dB/ft.</b>	40	40	40	40	40	40	60

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## CABLE DETAIL SPECIFICATION

RG/U NUMBER	RG58C/U	RG-142B/U	RG-400/U	RG-223/U	T-Flex405LF	T-Flex405HF	T-Flex402LF
M17 NUMBER	M17/28-RG58	M17/60-RG142	M17/128-RG400	M17/84-RG223	N/A	N/A	N/A
<b>DIMENSIONS(Inches)</b>							
Center Conductor	0.0355	0.037	0.0384	0.035	0.0201	0.0201	0.0359
Dielectric	0.116	0.116	0.116	0.116	0.064	0.064	0.118
Outer Conductor	0.150	0.171	0.171	0.176	0.085	0.085	0.141
Jacket	0.195	0.195	0.195	0.212	0.104	0.104	0.16
<b>MATERIAL</b>							
		Silver-Coated			Silver-Coated	Silver-Coated	
	Tinned	Copper-Coverd	Silver-Coated	Silver-Coated	Copper-Coverd	Copper-Coverd	Silver-Coverd
Center Conductor	Copper Wire	Steel Wire	Copper Wire	Copper Wire	Steel	Steel	Copper
Dielectric	PE Type A-1	PTFE Type F-1	PTFE Type F-1	PE Type A-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1
		Silver-Coated		Silver-Coated	Silver-Coated	Silver-Coated	Silver-Coated
Outer Conductor	Tinned Copper Wire	Copper Wire	Silver-Coated Wire	Copper Wire	Copper	Copper	Copper
Jacket	PVC Type IIA	FEP Type IX	FEP Type IX	PVC Type IIA	FEP	FEP	FEP
<b>CABLE CONSTRUCTION</b>							
	19 Strands		19 Strands				
Center Conductor	of 0.0077	Solid	of 0.0077	Solid	Solid	Solid	Solid
Dielectric	Solid	Solid	Solid	Solid			
	Single-Braid of	Double-Braid of	Double-Braid of	Double-Braid of			
Outer Conductor	AWG 36	AWG 36	AWG 36	AWG 36	Helical Wrap/Braid	Helical Wrap/Braid	Helical Wrap/Braid
<b>WEIGHT(Max.lbs./100 ft)</b>	2.6	4.3	5.0	4.1	1.5	1.5	3.5
<b>TEMPERATURE RATINGS</b>							
(Min. to Max., C <sup>o</sup> )	-40 to +85	-55 to +200	-55 to +200	-40 to +85	-65 to +125	-65 to +125	-65 to +125
<b>FREQUENCY(Max. GHz)</b>	1.0	12.4	12.4	12.4	2	40	2
<b>ATTENUATION(dB/100 ft)</b>							
Frequency(MHz) 400	11	8	8	8.8	13.7	13.7	7.2
1000	20	13	13	16.5	23	23	13
3000	41	26	26	36		39.3	
5000	NA	36	36	51		51.5	
10000	NA	62	62	85		76	
<b>POWER HANDLING(Watts)</b>							
Frequency(MHz) 400	75	1100	1100	90	310	310	720
1000	44	650	650	53	190	190	440
3000	22	350	350	28		110	
5000	15	245	245	20		80	
10000	NA	140	140	10		50	
<b>VSWR(Max.)</b>							
Frequency(MHz) 500	1.12	1.15	1.14	1.12	1.15	1.15	1.15
1000	1.14	1.17	1.17	1.15		1.15	
3000	NA	1.33	1.33	1.19		1.25	
10000	NA	NA	1.33	1.22		1.25	
<b>VOLTAGE RATING(Volts RMS)</b>							
Continuous Working Voltage(Max.)	1400	1400	1400	1400	1500	1500	1900
Voltage Withstanding(+10% -0%)	5000	5000	3000	5000			
Corona Extinction Voltage(Min.)	1900	1900	1900	1900			
<b>CHARACTERISTIC</b>							
Impedance(Ohms)	50	50	50	50	50	50	50
<b>MINIMUM INSIDE BEND</b>							
(Radius, In.)					0.5	0.5	0.8
<b>VELOCITY OF PROPAGATION</b>							
(Norm., %)	66	69.5	69.5	66	70	70	70
<b>SHIELDING EFFICIENCY, dB/ft.</b>	40	60	60	60	>100	>100	>100



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## CABLE DETAIL SPECIFICATION

RG/U NUMBER	.141 Al. jacket	.141 Al. low loss	.250 Al. jacket	LMR200	LMR240	LMR400	LMR600
<b>M17 NUMBER</b>	M17/130-00009	NA	NA	NA	NA	NA	NA
<b>DIMENSIONS(Inches)</b>							
Center Conductor	0.0362	0.0403	0.0641	0.044	0.056	0.109	0.176
Dielectric	0.1175	0.118	0.209	0.116	0.15	0.285	0.455
Outer Conductor	0.141	0.141	0.250	0.144	0.178	0.320	0.490
Jacket	None	None	None	0.195	0.24	0.405	0.590
<b>MATERIAL</b>							
Center Conductor	Silver-Coated Copper-Clad Steel	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Bare Copper	Bare Copper	Copper Clad Aluminum	Copper Clad Aluminum
Dielectric	PTFE Type F-1	Extended PTFE	PTFE Type F-1	Foam Poly.	Foam Poly.	Foam Poly.	Foam Poly.
Outer Conductor	Tin Plated, Aluminum Tube	Tin Plated, Aluminum Tube	Tin Plated, Aluminum Tube	Bonded Tape w/Tin Copper Over-braid	Bonded Tape w/Tin Copper Over-braid	Bonded Tape w/Tin Copper Over-braid	Bonded Tape w/Tin Copper Over-braid
Jacket	None	None	None	UV Protected Poly.	UV Protected Poly.	UV Protected Poly.	UV Protected Poly.
<b>CABLE CONSTRUCTION</b>							
Center Conductor	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dielectric	Solid	Extended PTFE	Solid	Closed Cell Foam Tape Braid	Closed Cell Foam Tape Braid	Closed Cell Foam Tape Braid	Closed Cell Foam Tape Braid
Outer Conductor	Solid	Solid	Solid	Composite	Composite	Composite	Composite
<b>WEIGHT(Max.lbs./100 ft)</b>		1.98	5.2	3	4	9	1.3
<b>TEMPERATURE RATINGS</b> (Min. to Max., C°)	-40 to +125	-40 to +125	-40 to +200	-40 to +85	-40 to +85	-40 to +85	-40 to +85
<b>FREQUENCY(Max. GHz)</b>	20	36	20				
<b>ATTENUATION(dB/100 ft)</b>							
Frequency(MHz) 400				6.6	5	2.6	1.6
1000		10	8	10.5	7.7	4.2	2.7
3000							
5000							
10000		34	34				
<b>POWER HANDLING(Watts)</b>							
Frequency(MHz) 400				280	410	920	1400
1000		900	1400	170	250	570	920
3000							
5000							
10000		200	350				
<b>VSWR(Max.)</b>							
Frequency(MHz) 500							
1000							
3000							
10000							
<b>VOLTAGE RATING(Volts RMS)</b>							
Continuous Working Voltage(Max.)	1900			300	400	750	1200
Voltage Withstanding(+10% -0%)	5000	5000	4000				
Corona Extinction Voltage(Min.)	1900	1900	1400				
<b>CHARACTERISTIC</b>							
Impedance(Ohms)	50	50	50	50	50	50	50
<b>MINIMUM INSIDE BEND</b> (Radius, In.)		0.625	0.25	0.5	0.75	1	1.5
<b>VELOCITY OF PROPAGATION</b> (Nom., %)	69.5	76	69.5	83	84	85	87
<b>SHIELDING EFFICIENCY, dB/ft.</b>	>100	>100	>100	90	90	90	90