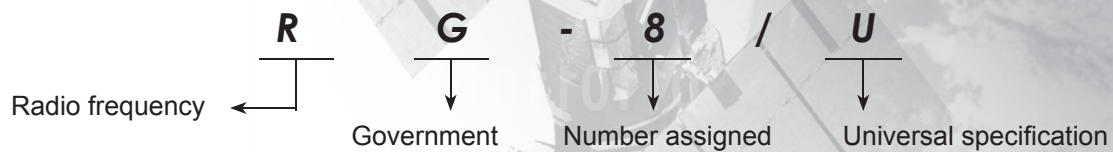


# RG TYPE RF COAXIAL CABLES

## NUMBERING SYSTEM



Part Number	RG6		RG11		RG58A/U		RG58C/U	
<b>DIMENSIONS</b>								
Center Conductor Diameter								
(inch)	0.0285		0.0477		0.0355		0.0355	
(mm)	0.73		1.2		0.85		0.85	
Dielectric Diameter								
(inch)	0.185		0.285		0.116		0.116	
(mm)	4.7		7.24		2.95		2.95	
Braid Diameter								
(inch)	0.24		0.32		0.139		0.139	
(mm)	6.2		8.2		3.53		3.53	
Jacket								
(inch)	0.33		0.405		0.195		0.195	
(mm)	8.5		10.3		4.95		4.95	
<b>MATERIAL SPECIFICATIONS</b>								
Jacket	PVC		PVC		PVC		PVC	
Braid	SPC (inner) & Bare Copper (outer)		Bare Copper (Single Braid)		TPC (Single Braid)		TPC (Single Braid)	
Dielectric	PE		PE		PE		PE	
Center Conductor	Copper Covered Steel		Tinned Copper		19/0072 TPC		19/0072 TPC	
<b>ELECTRICAL CHARACTERISTICS</b>								
Impedance	75ohm		75ohm		50ohm		50ohm	
Capacitance (Nominal)								
(pF/ft)	20.43		20.43		29		29	
(pF/m)	67		67		95.1		95.1	
Velocity of Propagation (%)	65.9		65.9		65.9		65.9	
Maximum Working Voltage	2700		4000		1400		1400	
Max. Cond. Resistance								
(Ohms/100Ft)	4.4		1.48		1.24		1.24	
(Ohms/100m)	14.43		4.85		4.06		4.06	
Corona Extinction Voltage								
(KV RMS)	2.7		5		1.9		1.9	
Min. Dielectric Strength								
(KV RMS)	7		10		5		5	
Max. Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Attenuation	Power	Attenuation	Power	
Max Power (Watts)								
100MHz	2.8	310	2.2	4.9	300	4.9	300	
400MHz	6.1	150	5.2	10.4	140	10.4	140	
1GHz	10.7	90	9	22	90	22	90	
<b>MECHANICAL CHARACTERISTICS</b>								
Max. Operating Temperature (°C)	-40/+80		-40/+80		-40/+80		-40/+80	
Min. Bend Radius								
(inch)	1.65		2		1		1	
(mm)	42		50.8		25.4		25.4	
Weight								
(g/Ft)	13		26		11.5		11.5	
(g/M)	43		86		38		38	

CABLE



Part Number	RG59B/U		RG142		RG174		RG178	
<b>DIMENSIONS</b>								
Center Conductor Diameter								
(inch)	0.0226		0.037		0.0189		0.012	
(mm)	0.58		0.94		0.48		0.3	
Dielectric Diameter								
(inch)	0.146		0.116		0.06		0.033	
(mm)	3.71		2.95		1.52		0.838	
Braid Diameter								
(inch)	0.174		0.162		0.078		0.051	
(mm)	4.42		4.11		1.98		1.3	
Jacket								
(inch)	0.242		0.195		0.11		0.071	
(mm)	6.15		4.95		2.79		1.8	
<b>MATERIAL SPECIFICATIONS</b>								
Jacket	PVC		FEP		PVC		FEP	
Braid	Bare Copper (Single Braid)		SPC (double braid)		TPC (Single Braid)		SPC (Single Braid)	
Dielectric	PE		PTFE		PE		PTFE	
Center Conductor	Bare Copper		Solid SPCW		7/0063 CW Wire		7/38 SPCW	
<b>ELECTRICAL CHARACTERISTICS</b>								
Impedance	75ohm		50ohm		50ohm		50ohm	
Capacitance (Nominal)								
(pF/ft)	19.5		32		30.5		32	
(pF/m)	64		105		100		105	
Velocity of Propagation(%)	65.9		65.9		65.9		69.5	
Maximum Working Voltage	1700		1400		1100		750	
Max. Cond. Resistance								
(Ohms/100Ft)	4.8		1.95		9.67		24.5	
(Ohms/100m)	15.74		6.4		31.72		80.2	
Corona Extinction Voltage								
(KV RMS)	2.3		1.9		1.5		1	
Min. Dielectric Strength								
(KV RMS)	7		5		2		2	
Max. Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Max Power (Watts)								
100MHz	4	270	5.5	2400	10.1	52	16	255
400MHz	8	135	11.7	1100	25	26	33	113
1GHz	14	80	19	550	45	17	52	66
2.4GHz	22	50	30.4	400	/	/	56.1	50
5GHz	34	30	48.7	245	/	/	/	/
<b>MECHANICAL CHARACTERISTICS</b>								
Max. Operating Temperature (°C)	-40/+80		-55/+200		-40/+80		-55/+200	
Min. Bend Radius								
(inch)	1		1		0.48		0.4	
(mm)	25.4		25.4		12.2		10.2	
Weight								
(g/Ft)	16		19		3.5		2.5	
(g/M)	53		63		11.5		8.2	

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Part Number	RG178-FEP		RG179		RG179-FEP		RG188	
<b>DIMENSIONS</b>								
Center Conductor Diameter								
(inch)	0.012		0.012		0.012		0.02	
(mm)	0.3		0.3		0.3		0.51	
Dielectric Diameter								
(inch)	0.033		0.063		0.063		0.06	
(mm)	0.838		1.6		1.6		1.52	
Braid Diameter								
(inch)	0.051		0.081		0.081		0.078	
(mm)	1.3		2.06		2.06		1.98	
Jacket								
(inch)	0.071		0.1		0.1		0.1	
(mm)	1.8		2.54		2.54		2.54	
<b>MATERIAL SPECIFICATIONS</b>								
Jacket	FEP		FEP		FEP		Taped PTFE	
Braid	SPC (Single Braid)		SPC (Single Braid)		SPC (Single Braid)		SPC (Single Braid)	
Dielectric	FEP		PTFE		FEP		PTFE	
Center Conductor	7/38 SPCW		7/38 SPCW		7/38 SPCW		7/0067 SPCW	
<b>ELECTRICAL CHARACTERISTICS</b>								
Impedance	50ohm		75ohm		75ohm		50ohm	
Capacitance (Nominal)								
(pF/ft)	32		23		23		29.5	
(pF/m)	105		75.4		75.4		96.8	
Velocity of Propagation(%)	69.5		65.9		65.9		69.5	
Maximum Working Voltage	750		900		900		900	
Max. Cond. Resistance								
(Ohms/100Ft)	24.5		24.5		24.5		8.41	
(Ohms/100m)	80.2		80.2		80.2		27.6	
Corona Extinction Voltage								
(KV RMS)	1		1.2		1.2		1.2	
Min. Dielectric Strength								
(KV RMS)	2		2		2		2	
Max. Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Max Power (Watts)								
100MHz	16	255	9.2	880	9.2	880	11	430
400MHz	33	113	21	420	21	420	21	210
1GHZ	52	66	30.7	260	30.7	260	38	130
2.4GHZ	56.1	50	/	/	/	/	55.4	100
<b>MECHANICAL CHARACTERISTICS</b>								
Max. Operating Temperature (°C)	-55/+200		-55/+200		-55/+200		-55/+200	
Min. Bend Radius								
(inch)	0.4		0.4		0.4		0.5	
(mm)	10.2		10.16		10.16		12.7	
Weight								
(g/Ft)	2.5		4.5		4.5		4	
(g/M)	8.2		15		15		13.1	

CABLE



Part Number	RG213	RG214	RG223	RG303				
<b>DIMENSIONS</b>								
Center Conductor Diameter								
(inch)	0.089	0.089	0.035	0.037				
(mm)	2.25	2.25	0.89	0.94				
Dielectric Diameter								
(inch)	0.285	0.285	0.116	0.116				
(mm)	7.24	7.24	2.95	2.95				
Braid Diameter								
(inch)	0.32	0.34	0.162	0.138				
(mm)	8.2	8.64	4.11	3.51				
Jacket								
(inch)	0.405	0.425	0.212	0.17				
(mm)	10.3	10.8	5.38	4.32				
<b>MATERIAL SPECIFICATIONS</b>								
Jacket	PVC	PVC	PVC	FEP				
Braid	Bare Copper (Single Braid)	SPC (Double Braid)	SPC (Double Braid)	SPC (Single Braid)				
Dielectric	PE	PE	PE	PTFE				
Center Conductor	Bare Copper	7/0296 SPC	SPC	Solid SPCW				
<b>ELECTRICAL CHARACTERISTICS</b>								
Impedance	50ohm	50ohm	50ohm	50ohm				
Capacitance (Nominal)								
(pF/ft)	30.79	30.5	30.5	32				
(pF/m)	101	100	100	105				
Velocity of Propagation(%)	65.9	65.9	65.9	69.5				
Maximum Working Voltage	3700	3700	1400	1400				
Max. Cond. Resistance								
(Ohms/100Ft)	0.176	0.173	0.897	1.796				
(Ohms/100m)	0.58	0.57	2.97	5.89				
Corona Extinction Voltage								
(KV RMS)	5	5	1.9	1.9				
Min. Dielectric Strength								
(KV RMS)	10	10	5	5				
Max. Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Max Power (Watts)								
100MHZ	2.1	1000	2.7	850	4.8	200	3.9	2400
400MHZ	4.9	470	5.5	400	11.5	85	8.6	1100
1GHZ	8.7	280	9	220	20	50	15	630
3GHZ	18	140	20	100	/	/	/	/
<b>MECHANICAL CHARACTERISTICS</b>								
Max. Operating Temperature (°C)	-40/+80	-40/+80	-40/+80	-55/+200				
Min. Bend Radius								
(inch)	2	2	1	0.9				
(mm)	50.8	50.8	25.4	22.86				
Weight								
(g/Ft)	41.5	56.5	16	13.5				
(g/M)	137	186	53	45				

CABLE



Part Number	RG316	RG316-FEP	RD316	RD316-FEP				
<b>DIMENSIONS</b>								
Center Conductor Diameter								
(inch)	0.02	0.02	0.02	0.02				
(mm)	0.51	0.51	0.51	0.51				
Dielectric Diameter								
(inch)	0.06	0.06	0.06	0.06				
(mm)	1.52	1.52	1.52	1.52				
Braid Diameter								
(inch)	0.078	0.078	0.096	0.096				
(mm)	1.98	1.98	2.44	2.44				
Jacket								
(inch)	0.098	0.098	0.114	0.114				
(mm)	2.49	2.49	2.9	2.9				
<b>MATERIAL SPECIFICATIONS</b>								
Jacket	FEP	FEP	FEP	FEP				
Braid	SPC (Single Braid)	SPC (Single Braid)	SPC (Double Braid)	SPC (Double Braid)				
Dielectric	PTFE	FEP	PTFE	FEP				
Center Conductor	7/0067 SPCW	7/0067 SPCW	7/0067 SPCW	7/0067 SPCW				
<b>ELECTRICAL CHARACTERISTICS</b>								
Impedance	50 Ohm	50 Ohm	50 Ohm	50 Ohm				
Capacitance (Nominal)								
(pF/ft)	32	32	32	32				
(pF/m)	105	105	105	105				
Velocity of Propagation(%)	69.5	69.5	69.5	69.5				
Maximum Working Voltage	900	900	1100	1100				
Max. Cond. Resistance								
(Ohms/100Ft)	8.41	8.41	8.41	8.41				
(Ohms/100m)	27.6	27.6	27.6	27.6				
Corona Extinction Voltage								
(KV RMS)	1.2	1.2	1.2	1.2				
Min. Dielectric Strength								
(KV RMS)	2	2	2	2				
Max. Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Max Power (Watts)								
100MHz	11	430	11	430	11.5	425	11.5	425
400MHz	21	240	21	240	24	240	24	240
1GHZ	38	160	38	160	40	160	40	160
2.4GHZ	55.4	90	55.4	90	58.3	90	58.3	90
5GHZ	/	57	/	57	110	57	110	57
10GHZ	/	30	/	30	170	30	170	30
<b>MECHANICAL CHARACTERISTICS</b>								
Max. Operating Temperature (°C)	-55/+200	-55/+200	-55/+200	-55/+200				
Min. Bend Radius								
(inch)	0.5	0.5	0.6	0.6				
(mm)	12.7	12.7	15.3	15.3				
Weight								
(g/Ft)	4.5	4.5	7	7				
(g/M)	15	15	23	23				

CABLE



Part Number	RG400	
<b>DIMENSIONS</b>		
Center Conductor Diameter		
(inch)	0.038	
(mm)	0.97	
Dielectric Diameter		
(inch)	0.116	
(mm)	2.95	
Braid Diameter		
(inch)	0.162	
(mm)	4.11	
Jacket		
(inch)	0.195	
(mm)	4.95	
<b>MATERIAL SPECIFICATIONS</b>		
Jacket	FEP	
Braid	SPC (Double Braiding)	
Dielectric	PTFE	
Center Conductor	19/32 SPC	
<b>ELECTRICAL CHARACTERISTICS</b>		
Impedance	50ohm	
Capacitance (Nominal)		
(pF/ft)	32	
(pF/m)	105	
Velocity of Propagation (%)	69.5	
Maximum Working Voltage	1400	
Max. Cond. Resistance		
(Ohms/100Ft)	0.91	
(Ohms/100m)	2.98	
Corona Extinction Voltage		
(KV RMS)	1.9	
Min. Dielectric Strength		
(KV RMS)	3	
Max. Attenuation (dB/100Ft)	Attenuation	Power
Max Power (Watts)		
100MHz	4.5	2400
400MHz	10.5	1050
1GHZ	17	550
2.4GHz	30.2	400
5GHz	52.1	245
10GHz	78	140
<b>MECHANICAL CHARACTERISTICS</b>		
Max. Operating Temperature (°C)	-55/+200	
Min. Bend Radius		
(inch)	1	
(mm)	25.4	
Weight		
(g/FT)	19	
(g/M)	63	

CABLE