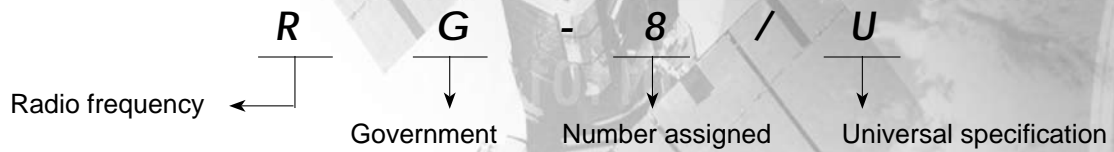


# RG TYPE RF COAXIAL CABLES

## 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								
Typical Attenuation At 20°C	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power				
Average Power (Watts At 20°C)	dB/100Ft	dB/100M	dB/100Ft	dB/100M	dB/100Ft	dB/100M	dB/100Ft	dB/100M				
100MHz	2.8	9.2	310	2.2	7.2	1000	4.9	16.1	400	4.9	16.1	400
400MHz	6.1	20	150	5.2	17.1	500	10.4	34.1	200	10.4	34.1	200
1GHz	10.7	35.1	90	9	29.5	300	17.7	58	120	17.7	58	120
<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		
Typical Attenuation At 20°C	Attenuation		Power	Attenuation		Power	Attenuation		Power	Attenuation		Power
Average Power (Watts At 20°C)	dB/100Ft	dB/100M		dB/100Ft	dB/100M		dB/100Ft	dB/100M		dB/100Ft	dB/100M	
100MHz	4	13	500	4.6	15	1400	8.6	28	140	16	52.5	190
400MHz	8	26.2	250	9.2	30	650	17.7	58	65	33	108.2	90
1GHz	14	45.9	150	15	49.2	400	29	95	40	52	170.6	55
2.4GHz	22	72.2	80	24.3	80	250	48.7	160	28	82.3	269.9	35
5GHz	34	111.5	52	36.6	120	180	70.1	230	18	109.7	360	26
<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		
Typical Attenuation At 20°C	Attenuation		Power	Attenuation		Power	Attenuation		Power	Attenuation		Power
Average Power (Watts At 20°C)	dB/100Ft	dB/100M		dB/100Ft	dB/100M		dB/100Ft	dB/100M		dB/100Ft	dB/100M	
100MHz	16	52.5	190	9.2	30.2	380	9.2	30.2	380	8.5	28	430
400MHz	33	108.2	90	21	68.9	180	21	68.9	180	18.3	60	210
1GHZ	52	170.6	55	30.7	100.7	110	30.7	100.7	110	30.5	100	140
2.4GHz	82.3	269.9	35	70.1	230	70	70.1	230	70	48.8	160	80
<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		
Typical Attenuation At 20°C	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power	Attenuation	Power
Average Power (Watts At 20°C)	dB/100Ft	dB/100M	dB/100Ft	dB/100M	dB/100Ft	dB/100M	dB/100Ft	dB/100M	dB/100Ft	dB/100M	dB/100Ft	dB/100M
100MHz	1.9	6.1	1700	1.9	6.1	1700	4.6	15	400	4.6	15	1400
400MHz	4.3	14	700	4.3	14	700	9.2	30	200	9.2	30	650
1GHZ	7.9	26	400	7.9	26	400	15	49.2	120	15	49.2	400
3GHZ	15.2	50	180	15.2	50	180	28.3	93	60	27.4	90	210
<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		
Typical Attenuation At 20°C	Attenuation		Power	Attenuation		Power	Attenuation		Power	Attenuation		Power
Average Power (Watts At 20°C)	dB/100Ft	dB/100M		dB/100Ft	dB/100M		dB/100Ft	dB/100M		dB/100Ft	dB/100M	
100MHz	8.5	28	430	8.5	28	430	8.5	28	430	8.5	28	430
400MHz	18.3	60	210	18.3	60	210	18.3	60	210	18.3	60	210
1GHZ	30.5	100	140	30.5	100	140	30.5	100	140	30.5	100	140
2.4GHZ	48.8	160	80	48.8	160	80	48.8	160	80	48.8	160	80
5GHZ	67	220	55	67	220	55	67	220	55	67	220	55
<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		
Typical Attenuation At 20°C	Attenuation		Power
Average Power (Watts At 20°C)	dB/ 100Ft	dB/ 100M	
100MHz	4.5	14.8	1400
400MHz	9.2	30	650
1GHZ	15.3	50	400
2.4GHZ	24.3	80	250
5GHZ	36.6	120	180
10GHZ	78	255.8	90
<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