

RG Coaxial and Triaxial Reference Guide

Misc. RG Types and Miniature Coax

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Cable Designation	Part No.	Page No.	Spec. Reference	Conductor Stranding/ Dia. & Type* (DCR/1000 Ft.)	Insulation Material (OD in.)	Shield Type Tape/Braid (DCR/1000 Ft.)	Jacket Material (OD in.)	Nom. Weight (Lbs./Ft.)	Nom. Imp. (Ω)	Nom. Cap. (pF/Ft.)	Suggested Operating Temp. Range (°C) UL	Max. Oper. Voltage (RMS) Non UL
Other Misc. RG Types (continued)												
RG-122/U QPL M17/157-00001	9252	6.76	MIL-C-17G	27/.030" TC (17.1)	PE (.096)	None/95% TC (5.2)	PVC-NC (.160)	.017	50	30.8	-40 to +80	1,400
RG-142B/U QPL M17/158-00001	83242	6.77	MIL-C-17G	1/.037" SCCS (19.3)	TFE (.116)	None/96% SC None/96% SC (2.3)	FEP (.195)	.043	50	29.0	-70 to +200	1,400
RG-142/ QPL M17/60-RG142	84142	6.77	MIL-C-17G	1/.037" SCCS (19.3)	TFE (.116)	None/96% SC None/96% SC (2.3)	FEP (.195)	.043	50	29.0	-70 to +200	1,400
RG-174/U Type RF100	7805	6.59	Belden	1/.018" BC (32.0)	PE (.061)	DF/90% TC (9.1)	PVC (.110)	.010	50	31.2	-40 to +75	1,100
RG-174/U Type RF 100 Low Loss	7805R	6.59	Belden	1/.0195" BC (27.3)	FPE (.060)	DF/90% TC (9.4)	PVC (.110)	.010	50	26.2	-40 to +75	300
RG-174/U Type	8216	6.67	MIL-C-17F	7/.019" BCCS (97.0)	PE (.060)	None/90% TC (10.7)	PVC (.110)	.008	50	30.8	-40 to +75	1,100
RG-174/U Type	9239	6.82	Belden	7/.019" BCCS (97.0)	PE (.044)	None/90% TC (14.0)	PVC (.101)	.008	50	38.0	-40 to +60	1,100
RG-178B/U QPL M17/169-00001	83265	6.76	MIL-C-17G	7/.012" SPCCS (244.0)	TFE (.033)	None/95% SPC (14.6)	FEP (.071)	.005	50	29.0	-70 to +200	750
RG-179/QPL M17/94-RG179	83264	6.79	MIL-C-17G	7/.012" SPCCS (244.0)	TFE (.062)	None/94% SPC (8.5)	FEP (.100)	.010	75	19.5	-70 to +200	900
RG-180/QPL M17/95-RG180	83266	6.80	MIL-C-17G	7/.012" SPCCS (244.0)	TFE (.102)	None/91% SPC (6.5)	FEP (.141)	.018	95	15.0	-70 to +200	1,100
RG-187A/U Type	83267	6.84	MIL-C-17D	7/.012" SPCCS (244.0)	TFE (.063)	None/95% SPC (8.6)	TFE-T (.103)	.010	75	19.5	-70 to +200	900
RG-188A/U Type	83269	6.67	MIL-C-17D	7/.020" SPCCS (91.2)	TFE (.058)	None/96% SPC (8.5)	TFE-T (.098)	.011	50	29.0	-70 to +200	900
RG-212/U QPL M17/162-00001	9861	6.78	MIL-C-17G	1/.056" SPC (3.3)	PE (.185)	None/95% SPC None/95% SC (1.1)	PVC-NC (.332)	.081	50	30.8	-50 to +80	2,200
RG-213/U QPL M17/163-00001	8267	6.78	MIL-C-17G	7/.089" BC (1.7)	PE (.285)	None/96% BC (1.2)	PVC-NC (.405)	.102	50	30.8	-40 to +80	3,700
RG-214/U QPL M17/164-00001	8268	6.78	MIL-C-17G	7/.089" SPC (1.7)	PE (.285)	None/97% SPC None/97% SPC (.7)	PVC-NC (.425)	.128	50	30.8	-40 to +80	3,700
RG-216/QPL M17/77-RG216	9850	6.79	MIL-C-17G	7/.048" TC (6.1)	PE (.285)	None/95% BC None/95% BC (.8)	PVC-NC (.425)	.122	75	20.5	-40 to +80	3,700
RG-223/U QPL M17/167-00001	9273	6.77	MIL-C-17G	1/.034" SCC (8.8)	PE (.117)	None/95% SCC None/95% SCC (2.5)	PVC-NC (.212)	.036	50	30.8	-40 to +60	1,400
RG-303/QPL M17/111-RG303	84303	6.77	MIL-C-17G	1/.037" SPCCS (16.3)	TFE (.116)	None/95% SCC (4.3)	FEP (.170)	.030	50	29.0	-70 to +200	1,400
RG-316/U QPL M17/172-00001	83284	6.76	MIL-C-17G	7/.020" SPCCS (84.1)	TFE (.058)	None/95% SPC (6.5)	FEP (.098)	.010	50	29.0	-70 to +200	900
RG-316/QPL M17/113-RG316	84316	6.76	MIL-C-17G	7/.020" SPCCS (84.1)	TFE (.058)	None/95% SPC (6.5)	FEP (.098)	.010	50	29.0	-70 to +200	900
Miniature Coax												
Miniature Coax	8218	6.34	Belden	7/.017" BCCS (120.0)	PE (.100)	None/93% TC (5.7)	PVC (.150)	.014	75	20.5	-40 to +60	1,700
Miniature Coax	8700	6.82	Belden	1/.013" TC (66.9)	PP (.023)	None/90% BC (28.7)	PVC (.054)	.003	32	55.2	-30 to +105	300
Miniature Coax	9221	6.34	Belden	7/.012" TC (100.0)	FHDPE (.058)	None/89% TC (11.7)	PVC (.097)	.006	75	17.3	-40 to +60	30
Miniature RG-59/U Type	1855A	6.40	Belden	1/.023" BC (20.1)	GIFHDPE (.102)	DF/95% TC (7.6)	PVC (.159)	.018	75	16.3	-30 to +75	300
Sub-Miniature RG-59/U Type	1865A	6.40	Belden	19/.021" BC (27.4)	GIFHDPE (.094)	DF/95% TC (5.4)	PVC (.150)	.014	75	16.5	-40 to +75	300

*Inner conductors are entered as: number of strands/strand diameter (in inches).

See page 6.15 for key to abbreviations used in this table.

MIL-C-17G QPL Cable

93 Ohm, 95 Ohm and 125 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

93 Ohm • 22 AWG Solid .025" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)

Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM	9862	NEC:	1000	304.8	37.0	16.8	22 AWG	.146	3.71	BC Braid	.242	6.15	93	84%	13.5	44.3	1	.3	1.0
Style 1354		CMX					(solid)			95% Shield							10	.9	3.0
(30V 60°C)		CEC:					.025"			Coverage							50	1.9	6.2
		CMX					BCCS			2.9Ω/M'							100	2.7	8.9
							41.2Ω/M'			9.5Ω/km							200	3.8	12.5
							135.2Ω/km										400	5.3	17.4
																	700	7.3	24.0
																	900	8.2	26.9
																	1000	8.7	28.5

M17/30-RG62

93 Ohm • 22 AWG Solid .025" Bare Copper-covered Steel Conductor • BC Outer Braid/TC Inner Braid Shield (95% Coverage)

Semi-solid Polyethylene Insulation • Black Polyethylene Jacket																				
85°C	9169	—	1000	304.8	46.0	20.9	22 AWG	.146	3.71	(2) Braids	.245	6.22	93	84%	13.5	44.3	1	.3	1.0	
							(solid)			Inner:							10	.9	3.0	
							.025"			BC							50	1.9	6.2	
							BCCS			Outer:							100	2.7	8.9	
							41.2Ω/M'			TC							200	3.8	12.5	
							135.2Ω/km			95% Shield							400	5.3	17.4	
										Coverage							700	7.3	24.0	
																	900	8.2	26.9	
M17/90-RG71										1.5Ω/M'							1000	8.7	28.5	
										4.9Ω/km										

M17/90-RG71

95 Ohm • 30 AWG Stranded (7x38) .012" Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (91% Coverage)

TFE Teflon® Insulation • Tinted Brown FEP Jacket																			
200°C	83266	—	1000†	304.8	20.0	9.1	30 AWG	.102	2.60	SPC Braid	.141	3.58	95	69.5%	15.0	49.2	1	2.4	7.9
VW-1							(7x38)			91% Shield							10	3.3	10.8
							.012"			Coverage							50	4.6	15.1
							SPCCS			6.5Ω/M'							100	5.7	18.7
							244.0Ω/M'			21.3Ω/km							200	7.6	24.9
							801.0Ω/km										400	10.7	35.1
																	700	14.9	48.9
																	900	15.9	52.2
																	1000	17.0	55.8

M17/95-RG180

125 Ohm • 22 AWG Solid .025" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (97% Coverage)

Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
60°C	9857	NEC:	1000	304.8	94.0	42.6	22 AWG	.285	7.24	BC Braid	.405	10.29	125	84%	9.7	31.8	1	.2	1.0
		CMH					(solid)			97% Shield							10	.5	1.6
		CEC:					.025"			Coverage							50	1.1	3.6
		CMH FT1					BCCS			1.2Ω/M'							100	1.5	4.9
							41.2Ω/M'			3.9Ω/km							200	2.3	7.5
							135.2Ω/km										400	3.4	11.2
M17/31-RG63																	700	4.6	15.1
																	900	5.5	18.0
																	1000	5.8	19.0

M17/31-RG63

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SPC = Silver-plated Copper • SPCCS = Silver-plated Copper-covered Steel • TC = Tinned Copper • TFE = Tetra Fluoroethylene

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**.

†May contain more than 1 piece, minimum length of any one piece is 25 feet.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Teflon is a DuPont trademark.