



broadband communications

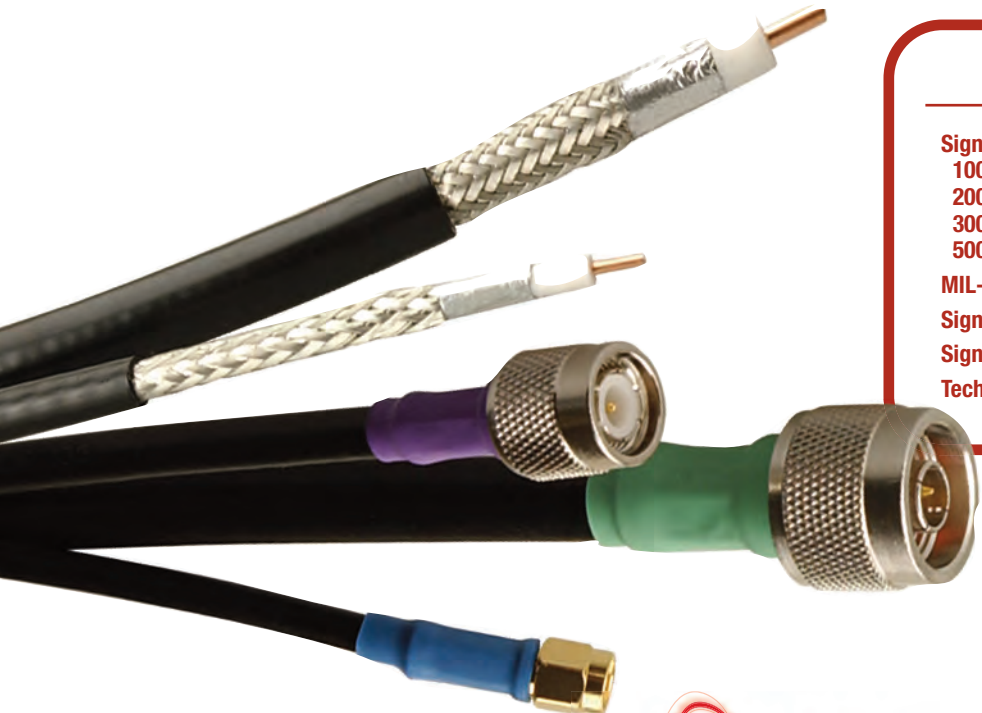
HIGH PERFORMANCE COAXIAL CABLE





For well over three decades, Coleman Cable Inc. has been a leading manufacturer of QPL, low temperature RF coaxial cables. CCI's product is supplied in accordance with MIL-DTL-17 and the compliant slant sheets for various Radio Guide coaxial cables as identified by the Defense Supply Center of Columbus, Ohio (DSCC).

The Coleman Cable Signa-Wave™ brand of high performance 50 & 75 Ohm radio frequency low-loss coaxial cables feature superior performance. These cables are utilized in numerous applications where loss and performance supersede traditional RG58, RG8, RG213, RG223, and RG214 coaxial cables. The Signa-Wave™ 100, 195, 200, 240, 300, and 400 series are utilized in mobile phone, Wi-Fi broadband, satellite antennas, terrestrial microwave, medical, military, air traffic control, and land mobile radio applications.



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Constructions

Signal-Wave™ 100, 195, 200, 240, 300, and 400 Series cables are available with flooded (water-blocked) optional polyethylene outdoor UV resistant jacket insulation, to withstand the harshest weather conditions, and Inside Riser Rated Flame Test PVC jacket insulation. Standard lengths are either 500 ft. or 1,000 ft. reels and are available in stock from our new Pleasant Prairie, Wisconsin distribution facility.

Features

- All our cables are 100% sweep tested to 5.8 GHz bandwidth and feature superior loss
- Excellent flexibility over standard rigid corrugated copper cable
- Compatible to all major connector manufacturers and are easily strippable for quick termination

Applications

Mobile phone, Wi-Fi, Broadband, Satellite Antennas, Terrestrial Microwave, Medical, Military, Air Traffic Control, and Land Mobile Radio

Part #/ Design	Cap. (pF/ft)	Imp. (ohms)	Vel. (%)	Shield Effect (dB)	Jkt Spark (VAC)	Cutoff Freq (GHz)	Peak Pwr (kW)	Volt Withstd (VDC)	Inner Cond.		Dielectric		Outer Cond.		Jacket		Min Bend Radius	Stor Temp (°F)	Install Temp (°F)	Oper Temp (°F)	Atten/Avg Pwr 68°F			
									D.C.R. (Z/M')	Nom Diam (In)	Nom Diam (In)	D.C.R. (Z/M')	Nom Diam (In)	Nom Diam (In)	Freq (MHz)	Atten (dB/ 100ft)					Avg Pwr (kW)			
100 SERIES																								
985100 Indoor/ Outdoor SWC 100	30.8	50	66	90	2,000	90	0.6	500	81	9.5	0.060			0.11	0.25	-94 to +185	-40 to +185	-40 to +185	30	3.90	0.23			
									0.018	0.083				50					5.10	0.18				
														150					8.90	0.10				
														220					10.90	0.08				
														450					15.80	0.06				
														900					22.80	0.05				
														1500					30.10	0.04				
					1800	33.20	0.03																	
					2000	35.20	0.02																	
					2500	39.80	0.01																	
					5800	64.10	0.01																	
195 SERIES																								
986195 Std Outdoor SWC 195	24.3	50	80	90	3,000	41	2.5	1,000	7.6	0.037	0.110	4.9	0.139	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	30	2.00	0.89			
														50					2.60	0.68				
														150					4.40	0.39				
														220					5.40	0.32				
987195 Watertight SWC 195DB	24.3	50	80	90	3,000	41	2.5	1,000	7.6	0.037	0.110	4.9	0.139	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	450	7.80	0.22			
														900					11.10	0.15				
														1500					14.50	0.15				
														1800					16.00	0.11				
985195 c(ETL)us CMR FT4 SWC 195FR	24.3	50	80	90	3,000	41	2.5	1,000	7.6	0.037	0.110	4.9	0.139	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	2000	16.90	0.10			
														2500					19.00	0.09				
														5800					29.90	0.06				
989195 Indoor/ Outdoor Extra-Flex SWC 195EF	25.4	50	76	90	3,000	40	2.5	1,000	9.50	0.038	0.110	4.9	0.139	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	30	2.30	0.78			
														50					3.00	0.61				
														150					5.30	0.35				
														220					6.40	0.26				
														450					9.30	0.20				
														900					13.10	0.14				
														1500					17.30	0.10				
														1800					19.00	0.09				
														2000					20.10	0.09				
					2500	22.60	0.08																	
					5800	35.60	0.05																	

Dimensions and weights are nominal and are subject to industry tolerances unless otherwise noted.



200 & 240 Series



Part #/ Design	Cap. (pF/ft)	Imp. (ohms)	Vel. (%)	Shield Effect (dB)	Jkt Spark (VAC)	Cutoff Freq (GHz)	Peak Pwr (kW)	Volt Withstd (VDC)	Inner Cond.		Dielectric		Outer Cond.		Jacket		Atten/Avg Pwr 68°F				
									D.C.R. (Ω/M')	Nom Diam (In)	Nom Diam (In)	D.C.R. (Ω/M')	Nom Diam (In)	Nom Diam (In)	Min Bend Radius	Stor Temp (°F)	Install Temp (°F)	Oper Temp (°F)	Freq (MHz)	Atten (dB/ 100ft)	Avg Pwr (kW)
200 SERIES																					
986200 Std Outdoor SWC 200	24.5	50	83	90	3,000	39	2.5	1,000	5.36	0.044	0.116	4.9	0.144	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	30	1.80	1.02
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		PE					50	2.30	0.79
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					150	4.00	0.45
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					220	4.80	0.37
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					450	7.00	0.26
987200 Watertight SWC 200DB	24.5	50	83	90	3,000	39	2.5	1,000	5.36	0.044	0.116	4.9	0.144	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	900	9.90	0.18
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					1500	12.90	0.14
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					1800	14.20	0.13
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					2000	15.00	0.12
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					2500	16.90	0.10
985200 c(ETL)us CMR FT4 SWC 200FR	24.5	50	83	90	3,000	39	2.5	1,000	5.36	0.044	0.116	4.9	0.144	0.195	0.50	-94 to +185	-40 to +185	-40 to +185	5800	26.40	0.07
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
240 SERIES																					
986240 Std Outdoor SWC 240	24.2	50	84	90	5,000	31	5.6	1,500	3.2	0.056	0.150	3.89	0.178	0.240	0.75	-94 to +185	-40 to +185	-40 to +185	30	1.30	1.49
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		PE					50	1.70	1.15
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		PE					150	3.00	0.66
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		PE					220	3.70	0.54
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		PE					450	5.30	0.38
987240 Watertight SWC 240DB	24.2	50	84	90	5,000	31	5.6	1,500	3.2	0.056	0.150	3.89	0.178	0.240	0.75	-94 to +185	-40 to +185	-40 to +185	900	7.60	0.26
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					1500	9.90	0.20
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					1800	10.90	0.18
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					2000	11.50	0.17
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Flooded PE					2500	12.90	0.15
985240 c(ETL)us CMR FT4 SWC 240FR	24.2	50	84	90	5,000	31	5.6	1,500	3.2	0.056	0.150	3.89	0.178	0.240	0.75	-94 to +185	-40 to +185	-40 to +185	5800	20.40	0.10
									Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
									Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
									Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
									Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Riser Rated PVC							
989240 Extra Flexible SWC 240EF	24.2	50	84	90	5,000	31	5.6	1,500	4.28	0.056	0.150	3.89	0.178	0.240	0.75	-94 to +185	-40 to +185	-40 to +185	30	1.60	1.24
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					50	2.10	0.96
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					50	3.60	0.55
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					220	4.40	0.45
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					450	6.30	0.31
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					900	9.10	0.22
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					1500	11.80	0.17
									7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer					1800	13.00	0.15
7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer	2000	13.80	0.14													
7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer	2500	15.50	0.13													
7x.0188 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid		Thermo- plastic Elastomer	5800	24.40	0.08													

Dimensions and weights are nominal and are subject to industry tolerances unless otherwise noted.



Part #/ Design	Cap. (pF/ft)	Imp. (ohms)	Vel. (%)	Shield Effect (dB)	Jkt Spark (VAC)	Cutoff Freq (GHz)	Peak Pwr (kW)	Volt Withstd (VDC)	Inner Cond.		Dielectric		Outer Cond.		Jacket		Atten/Avg Pwr 68°F				
									D.C.R. (Ω/M')	Nom Diam (In)	Nom Diam (In)	D.C.R. (Ω/M')	Nom Diam (In)	Nom Diam (In)	Min Bend Radius	Stor Temp (°F)	Install Temp (°F)	Oper Temp (°F)	Freq (MHz)	Atten (dB/ 100ft)	Avg Pwr (kW)
300 SERIES																					
986300 Std Outdoor SWC 300	24.1	50	85	90	5,000	24.5	10	2,000	2.12	0.070	0.190	2.21	0.225	0.300	0.88	-94 to +185	-40 to +185	-40 to +185	30	1.10	2.10
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	PE	50					1.40	1.60	
													150	2.40					0.92		
													220	2.90					0.76		
987300 Watertight SWC 300DB	24.1	50	85	90	5,000	24.5	10	2,000	2.12	0.070	0.190	2.21	0.225	0.300	0.88	-94 to +185	-40 to +185	-40 to +185	450	4.20	0.52
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	Flooded PE	900					6.10	0.36	
													1500	7.90					0.28		
													1800	8.70					0.25		
985300 c(ETL)us CMR FT4 SWC 300FR	24.1	50	85	90	5,000	24.5	10	2,000	2.12	0.070	0.190	2.21	0.225	0.300	0.88	-94 to +185	-40 to +185	-40 to +185	2000	9.20	0.24
									Solid Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	Riser Rated PVC	2500					10.40	0.21	
													5800	16.60					0.13		
400 SERIES																					
986400 Std Outdoor SWC 400	23.9	50	85	90	8,000	16.2	16	2,500	1.39	0.108	0.285	1.65	0.320	0.405	1.00	-94 to +185	-40 to +185	-40 to +185	30	0.70	3.30
									Solid BCC AL		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	PE	50					0.90	2.60	
													150	1.50					1.50		
													220	1.90					1.20		
987400 Watertight SWC 400DB	23.9	50	85	90	8,000	16.2	16	2,500	1.39	0.108	0.285	1.65	0.320	0.405	1.00	-94 to +185	-40 to +185	-40 to +185	450	2.70	0.83
									Solid BCC AL		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	Flooded PE	900					3.90	0.58	
													1500	5.10					0.44		
													1800	5.70					0.40		
985400 c(ETL)us CMR FT4 SWC 400FR	23.9	50	85	90	8,000	16.2	16	2,500	1.39	0.108	0.285	1.65	0.320	0.405	1.00	-94 to +185	-40 to +185	-40 to +185	2000	6.00	0.37
									Solid BCC AL		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	Riser Rated PVC	2500					6.80	0.33	
													5800	10.80					0.21		
989400 Extra Flexible SWC 400EF	23.9	50	85	90	8,000	16.2	16	2,500	1.07	0.108	0.285	1.65	0.320	0.405	1.00	-94 to +185	-40 to +185	-40 to +185	30	0.80	2.77
									7x.380 Stranded Bare Copper		Foam PE/ Bonded Alum. Foil + Tinned	Copper Braid	Thermo- plastic Elastomer	50					1.10	2.14	
													150	1.80					1.22		
													220	2.20					1.00		
													450	3.30					0.89		
													900	4.70					0.48		
													1500	6.20					0.36		
													1800	6.80					0.33		
				2000	7.20	0.31															
				2500	8.10	0.28															
				5800	13.00	0.17															

Dimensions and weights are nominal and are subject to industry tolerances unless otherwise noted.



500 & 600 Series



Part#/ Design	Cap. (pF/ft)	Imp. (ohms)	Vel. (%)	Shield Effect (dB)	Jkt Spark (VAC)	Cutoff Freq (GHz)	Peak Pwr (kW)	Volt Withstd (VDC)	Inner Cond.		Dielectric	Outer Cond.		Jacket	Min Bend Radius	Stor Temp (°F)	Install Temp (°F)	Oper Temp (°F)	Atten/Avg Pwr 68°F			
									D.C.R. (Ω/M')	Nom Diam (In)		Nom Diam (In)	D.C.R. (Ω/M')						Nom Diam (In)	Freq (MHz)	Atten (dB/ 100ft)	Avg Pwr (kW)
500 SERIES																						
986500 Std Outdoor SWC 500	23.6	50	86	90	8,000	12.6	22	3,000	.082	0.142	0.370	1.27	0.405	0.500	5.0	-94 to +185	-40 to +185	-40 to +185	30	0.5	4.40	
									Solid BCCAL			Foam PE/ Bonded Alum. Foil	Tinned Copper Braid						PE	50	0.7	3.39
																				150	1.2	1.93
																				220	1.5	1.58
987500 Watertight SWC 500DB	23.6	50	86	90	8,000	12.6	22	3,000	.082	0.142	0.370	1.27	0.405	0.500	5.0	-94 to +185	-40 to +185	-40 to +185	450	2.2	1.09	
									Solid BCCAL			Foam PE/ Bonded Alum. Foil	Tinned Copper Braid						Flooded PE	900	3.1	0.75
																				1500	4.1	0.56
																				1800	4.6	0.52
985500 c(ETL)us CMR FT4 SWC 500FR	23.6	50	86	90	8,000	12.6	22	3,000	.082	0.142	0.370	1.27	0.405	0.500	5.0	-94 to +185	-40 to +185	-40 to +185	2000	4.8	0.49	
									Solid BCCAL			Foam PE/ Bonded Alum. Foil	Tinned Copper Braid						Riser Rated PVC	2500	5.5	0.43
																				5800	8.9	0.26
600 SERIES																						
986600 Std Outdoor SWC 600	23.4	50	87	90	8,000	10.3	40	4,000	.053	0.176	0.370	1.20	0.590	0.500	5.9	-94 to +185	-40 to +185	-40 to +185	30	0.4	5.51	
									Solid BCCAL			Foam PE/ Bonded Alum. Foil	Tinned Copper Braid						PE	50	0.5	4.23
																				150	1.0	2.42
																				220	1.2	1.97
987600 Watertight SWC 600DB	23.4	50	87	90	8,000	10.3	40	4,000	.053	0.176	0.370	1.20	0.590	0.500	5.9	-94 to +185	-40 to +185	-40 to +185	450	1.7	1.34	
									Solid BCCAL			Foam PE/ Bonded Alum. Foil	Tinned Copper Braid						Flooded PE	900	2.5	0.95
																				1500	3.3	0.70
																				1800	3.7	0.64
985600 c(ETL)us CMR FT4 SWC 600FR	23.4	50	87	90	8,000	10.3	40	4,000	.053	0.176	0.370	1.20	0.590	0.500	5.9	-94 to +185	-40 to +185	-40 to +185	2000	3.9	0.59	
									Solid BCCAL			Foam PE/ Bonded Alum. Foil	Tinned Copper Braid						Riser Rated PVC	2500	4.4	0.53
																				5800	7.3	0.32





HIGH PERFORMANCE
coaxial

MIL-DTL-17 Coaxial Cables

Q.P.L. (Qualified Product List)

PART # & PRODUCT CODE	QUALIFICATION SLANT SHEET MIL-C-17 (REV G)	INNER CONDUCTOR	DOD & DIELECTRIC MATERIAL	OUTER CONDUCTOR & TYPES OF SHIELDS	JACKET MATERIAL	NOM OD	OVER-BRAID & OD	NOM IMP OHMS PER 100'	NOM CAP pF PER FT	VEL OF PROP	MAX OP FREQ (GHZ)	MAX OP RANGE °C	MAX ATTEN DB MHz/1000'	QUAL TEST REPORT NUMBER	APPROX WT/ 1000'
988418	M17/2-RG6	.0285 Copper Clad Steel 21 AWG 32.6/MFT Nom DCR	PE .185	1st 95% SC 2nd 95% BC 1.1/MFT Nom DCR	PVC-IIA Black	.332	N/A	75.0	19.5	66%	3.0	-40 +85°C	50 1.4 100 2.9 400 6.5 1000 9.8 3000 23.0	17-072-90	82
988587	M17/6-RG011	.0477 7/.0159 TC 18 AWG 6.6/MFT Nom DCR	PE .285	95% BC 1.2/MFT Nom DCR	PVC-IIA Black	.405	N/A	75.0	19.5	66%	1.0	-40 +85°C	50 1.3 100 2.4 200 2.9 400 5.2 900 7.9 1000 9.4	17-073-90	98
988870	M17/6-RG012 (RG011 Armored)	.0477 7/.0159 TC 18 AWG 6.6/MFT Nom DCR	PE .285	95% BC 1.2/MFT Nom DCR	PVC-IIA Black	.405	Alum Over Braid .475	75.0	19.5	66%	1.0	-40 +85°C	50 1.3 100 2.4 200 2.9 400 5.2 900 7.9 1000 9.4	17-073-90	145
988585	M17/15- RG022 Max Oper Freq 200 MHz	2 Conductor .0456 18 AWG 7/.0152 BC One Connector w/ Tinned Center Strand 6.6/MFT Nom DCR 2 Conductor	PE .285	1st 94% SC 2nd 96% BC 88/MFT Nom DCR	PVC-IIA Black	.420	N/A	95.0	17.4	66%	200 MHz	-40 +85°C	20 1.3 50 2.1 100 4.0 200 6.0	17-161-91	134
988591	M17/28-RG058 Swept Attn /SRL 1000 MHz	12.4/MFT Nom DCR	PE .116	95% TC 4.1/MFT Nom DCR	PVC-IIA Black	.195	N/A	50.0	30.8	66%	1.0	-40 +85°C	50 4.0 100 6.5 200 8.0 400 17.0 1000 28.0	17-395-90	26
988299	M17/29- RG059	.0226" Copper Clad Steel 23 AWG 47.0/MFT Nom DCR .0253 Copper Clad Steel 22 AWG	PE .146	94% BC 2.6/MFT Nom DCR	PVC-IIA Black	.242	N/A	75.0	19.5	66%	1.0	-40 +85°C	50 2.4 100 3.4 200 4.9 400 9.0 1000 16.0	17-074-90	35
988405	M17/30- RG062	41.2/MFT Nom DCR	Semi-Solid Polyethylene .146 Dia .035" Monofilament (Air Space)	94% BC 2.9/MFT Nom DCR	PVC-IIA Black	.242	N/A	93.0	14.0	84%	1.0	-40 +80°C	50 1.9 100 2.7 200 4.1 400 8.0 1000 13.0	17-075-90	38
986295	M17/31- RG063	.0253 Copper Clad Steel 22 AWG 41.2/MFT Nom DCR	Semi-Solid Polyethylene .285 Dia .070" Monofilament (Air Space)	95% BC 1.2/MFT Nom DCR	PVC-IIA Black	.405	N/A	125.0	11.0	84%	400 MHz*	-40 +80°C	50 1.1 100 1.5 200 2.3 400 5.5 1000 8.8	17-168-91	88
982950	M17/31- RG079 (RG063 Armored)	.0253 Copper Clad Steel 22 AWG 41.2/MFT Nom DCR	Semi-Solid Polyethylene .285 Dia .070" Mono-filament (Air Space) PE Each	95% BC 1.2/MFT Nom DCR	PVC-IIA Black	.405	Alum Over Braid .475	125.0	11.0	84%	400 MHz*	-40 +80°C	50 1.1 100 1.5 200 2.3 400 5.5 1000 8.8	17-168-91	138
988463	M17/45- RG108	2 Conductor .0378 7/.01266 TC 20 AWG One Conductor w/ Bare Center Strand	Conductor .079 Nom .158 Nom Twisted Pair	87% TC	PVC-IIA Black	.235	N/A	78.0	24.0	66%	10 MHz	-40 +85°C	50 5.2 100 7.5 200 11.0 400 16.0 1000 26.2 3000 54.0	17-085-91	35
988412	M17/73- RG212 Swept Attn/SRL to 11000 MHz	.0556 Solid Silver Plate Copper 16 AWG 3.48/MFT Nom DCR	PE .185	1st 95% SC 2nd 95% SC 1.1/MFT Nom DCR	PVC-IIA Black	.332	N/A	50.0	30.8	66%	11.0	-40 +85°C	50 2.0 100 2.7 200 4.1 400 6.5 1000 12.0 3000 24.0 5000 28.0 11000 60.0	17-162-91	89



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MIL-DTL-17 Coaxial Cables

Q.P.L. (Qualified Product List)

PART # & PRODUCT CODE	QUALIFICATION SLANT SHEET MIL-C-17 (REV G)	INNER CONDUCTOR	DOD & DIELECTRIC MATERIAL	OUTER CONDUCTOR & TYPES OF SHIELDS	JACKET MATERIAL	NOM OD	OVER-BRAID & OD	NOM IMP OHMS PER 100'	NOM CAP pF PER FT	VEL OF PROP	MAX OP FREQ (GHZ)	MAX OP RANGE °C	MAX ATTEN DB MHz/1000'	QUAL TEST REPORT NUMBER	APPROX WT/ 1000'
988409	M1774- RG213 Swept Attn/SRL 50 to 1000 MHz	7/.0296 Bare Copper 13 AWG 1.76/MFT Nom DCR Dia .0888"	PE .285	95% BC 2.9/MFT Nom DCR	PVC-IIA Black	.405	N/A	50.0	30.8	66%	1.0	-40 +85°C	50 1.2 100 2.3 200 3.2 400 4.8 1000 9.0	17-003-91	111
988410	M1774- RG215 (RG213 Armored) Attn/SLR 50 to 1000 MHz	7/.0296 Bare Copper 13 AWG 1.76/MFT Nom DCR Dia .0888"	PE .285	95% BC 2.9/MFT Nom DCR	PVC-IIA Black	.405	Alum Over Braid .475	50.0	30.8	66%	1.0	-40 +85°C	50 1.2 100 2.3 200 3.2 400 4.8 1000 9.0	17-003-91	138
988421	M1775- RG214 Swept Attn /SRL (50 MHz to 11 GHz)	7/.0296 Silver Plate Copper 13 AWG 1.73/MFT Nom DCR Dia .0888"	PE .285	1st 96% SC 2nd 98% SC .70/MFT Nom DCR	PVC-IIA Black	.425	N/A	50.0	30.8	66%	11.0	-40 +85°C	50 1.7 100 2.2 200 3.2 400 6.8 1000 8.0 3000 28.0 11000 60.0	17-396-90	130
988296	M1777- RG216	7/.0159 Tinned Copper 18 AWG 6.16/MFT Nom DCR Dia .0477"	PE .285	1st 95% SC 2nd 94% SC .85/MFT Nom DCR	PVC-IIA Black	.425	N/A	75.0	22.0	66%	3.0	-40 +85°C	50 2.8 100 4.1 200 6.0 400 6.5 1000 14.5 3000 23.0	17-163-91	124
988419	M1778- RG217 Swept Attn/SRL 50 to 1000 MHz	.106 Solid Bare Copper 10 AWG .94/MFT Nom DCR	PE .370	1st 95% BC 2nd 95% BC 1.4/MFT Nom DCR	PVC-IIA Black	.545	N/A	50.0	30.8	66%	1.0	-40 +85°C	50 1.0 100 1.4 200 2.1 400 3.7 1000 7.0 3000 14.0	17-086-91	225
988423	M17784- RG223 Swept Attn/SRL 50 to 12400 MHz	.035 Silver Plate Copper 19 AWG 8.97/MFT Nom DCR	PE .116	1st 95% SC 2nd 94% SC 2.5/MFT Nom DCR	PVC-IIA Black	.212	N/A	50.0	30.8	66%	1.0	-40 +85°C	50 4.8 100 6.6 200 7.8 400 12.0 1000 21.0 3000 40.0 5000 55.0 12400 92.0	17-394-90	41
988480	M1790- RG071	.0253 Copper Clad Steel 22 AWG 41.2/MFT Nom DCR	Semi-Solid Polyethylene .146 Dia .035" Mono-filament (Air Space)	1st 94% BC 2nd 94% TC 41.5/MFT Nom DCR	PVC-IIA Black	.245	N/A	93.0	14.5	84%	11.0	-55 +85°C	50 1.9 100 2.7 200 4.1 400 8.0 1000 13.0	17-076-90	50
988596	M17119- RG174 Swept Attn/SRL 50 to 1000 MHz	7/.0063 Copper Clad Steel .0189 26 AWG 96.7/MFT Nom DCR	PE .060	86% TC 10.3/MFT Nom DCR	PVC-IIA Black	.110	N/A	50.0	30.8	66%	1.0	-40 +85°C	50 6.5 100 10.0 200 12.0 400 25.0 1000 45.0	17-397-90	9.5
988465	M1775- RG365 Swept Attn/SRL 50 MHz to 11 GHz	7/.0296 Silver Plate Copper 13 AWG 1.73/MFT Nom DCR Dia .0888"	PE .285	1st 96% SC 2nd 98% SC .70/MFT Nom DCR	TPE Black	.425	N/A	50.0	30.8	66%	11.0	-55 +85°C	50 1.7 100 2.2 200 3.2 400 6.8 1000 8.0 3000 28.0 11000 60.0	17-266-92	130



RG8/U & RG58/U Type 50 OHM

Part Number	Description ETL/UL/CSA Rating	Center Cond. AWG or DIA (in) Nom DCR	Dielectric Material & OD (in)	Shields Number Types		Jacket Type & Nom OD (in)	Nom IMP (ohms)	Nom Cap pF/ft	Nom Vel Of Prop	Attenuation		Weight 1000'
				Nom DCR						MHZ	Nom DB per 100	
RG8/U Type												
991020	RG8/X MNI AWM 1354 CL2	16 AWG 19x29 Bare Copper 3.900/MFT	FPE .155	1st 95% Bare Copper Braid	-	PVC .242	50	26.0	78%	50	2.5	37
										100	3.7	
										200	5.4	
										400	8.0	
900	12.8											
991011	RG8/U Type (UL) CL2	11 AWG (7/19) Bare Copper	FPE .280	96% Bare Copper Braid	-	PVC .405	50	26.0	78%	50	1.2	97
										100	1.8	
										200	2.7	
										40	4.2	
900	6.7											
991007	RG8/U Type Low Loss	9.5AWG Solid Bare Copper 6.5Ω/MFT	Semi-Solid .287 Monofilament wrap around conductor	1st Bonded APA Foil	2nd 88% Tinned Copper Braid	PVC .405	50	24.0	84%	50	0.9	98
										100	1.4	
										200	1.8	
										400	2.6	
										700	3.6	
										900	4.2	
										1000	4.6	
4000	11.0											
Non-Plenum												
991039	RG58/U Type AWM 1354	20 AWG Solid Bare Copper	PE .116	1st 80% Bare Copper Braid	-	PVC .195	53.5	28.5	66%	50	3.0	23
										100	4.4	
										200	6.0	
										400	8.5	
										900	13.0	
991053	RG58A/U Type	20 AWG Solid Bare Copper	FPE .116	1st 80% Bare Copper Braid	-	PVC .195	50	26.0	78%	50	2.8	23
										100	3.4	
										200	5.4	
										900	8.7	
991041	RG58/U Type Jan C 17A AWM 1354 CL2	20 AWG Solid Bare Copper	PE .116	1st 95% Tinned Copper Braid 4.1 Ω/MFT Nom. DCR	-	PVC	53.5 .195	28.5	66%	50	3.1	28
										100	4.5	
										200	6.8	
										400	8.5	
										900	13.0	
991045	RG58/U Type Xtra-Flex AWM 1354 CL2	20 AWG 19 x 33 Tinned Copper	PE .116	1st 95% Tinned Copper Braid 4.1 Ω/MFT Nom. DCR	-	PVC	50 .195	30.8	66%	50	3.3	27
										100	4.9	
										200	7.3	
										400	11.5	
										900	20.0	
991047	RG58C/U Mil-C-17D AWM 1354 CL2	21 AWG 19 x 33 Tinned Copper	PE .116	1st 95% Tinned Copper Braid 4.0 Ω/MFT Nom. DCR	-	NVC .195	50	30.8	66%	50	3.3	26
										100	4.9	
										200	7.3	
										400	11.5	
										900	20.0	
991049	RG58A/U Type AWM 1354 CL2	20 AWG 19 x 32 Tinned Copper	FPE .116	1st 95% Tinned Copper Braid	-	PVC .195	50	26.0	78%	50	3.2	24
										100	4.5	
										200	6.4	
										400	9.0	
										700	12.0	
										900	13.0	
										1000	14.5	
2000	24.5											
993317	30v 60°C IEEE 802.3 10 Base 2 RG 58C/U	20 AWG 19 Strand Tinned Copper	Cellular Polyethylene .102	1st APA Foil	2nd 95% Tinned Copper	PVC .182	50	25.4	78%	50	1.4	28
										100	4.3	
										200	6.2	
										400	8.8	
										700	12.0	
										1000	14.7	



50 OHM Broadband RF



Part Number	Description ETL/UL/CSA Rating	Center Cond. AWG or DIA (in) Nom DCR	Dielectric Material & OD (in)	Shields Number Types		Jacket Type & Nom OD (in)	Nom IMP (ohms)	Nom Cap pF/ft	Nom Vel Of Prop	Attenuation		Weight 1000'
				Nom DCR						MHZ	Nom DB per 100	
RG174/U Type												
991069	Rg174/U Type Commercial AWM 1354	26 AWG 7 x .0063 CCS	PE 0.060	1st 88% Tinned Copper Braid	-	PVC .108	50	30.8	66%	50	6.6	8
										100	8.8	
										200	11.9	
										500	17.5	
										900	28.2	
1000	30.2											
RG213/U Type												
991071	RG213/U Mil-Type Commercial AWM 1354 CL2X	13 AWG 7 x .0296 Bare Copper	PE .285	1st 95% Bare Copper Braid	-	NCV .405	50	30.8	66%	50	1.6	106
										100	2.2	
										200	3.2	
										500	4.7	
										900	8.0	
RG214/U Type												
991075	RG214/U Mil-Type Commercial AWM 1354 CL2X	13 AWG 7 x .0296 Silver Coated Copper 1.7Ω/MFT	PE .285	1st 95% Silver Coated Copper Braid	2nd 98% Silver Coated Copper Braid 0.70Ω/MFT	NCV .425 Black	50	30.8	66%	50	1.6	147
										100	2.2	
										200	3.0	
										500	4.5	
										900	7.8	
1000	7.9											
RG223/U Type												
991079	RG223/U Mil-Type Commercial AWM 1354 CL2X	19 AWG Solid Silver Coated Copper .0359 8.97Ω/MFT	Solid PE .116	1st 95% Silver Coated Copper Braid	2nd 95% Silver Coated Copper Braid 2.5Ω/MFT	NCV Black .212 Type IIA	50	30.8	66%	50	2.8	37
										100	4.1	
										200	6.0	
										500	9.0	
										900	13.6	
1000	14.3											
Other Coaxial Style Cable												
991401	RG55B/U Mil-Type Commercial	20 AWG .032 Silver Plate Copper 8.97Ω/MFT Nom DCR	PE .116	1st 95% Tinned Copper	2nd 98% TC 3.1Ω/MFT Nom DCR	NCV Black .212	50	31.0	66%	1	1.4	45
										50	3.2	
										100	4.5	
										200	6.5	
										400	12.8	
1000	21.0											



Coaxial Cable Cross-Reference Chart

CCI Part Number	Spec Design/Description	Times Microwave	Belden
985100	SWC 100	LMR100	7805
986195	SWC 195	LMR195	7806A
987195	SWC 195DB	LMR195DB	n/a
985195	SWC 195FR	LMR195FR	7806R
989195	SWC 195EF	LMR195UF	n/a
986200	SWC 200	LMR200	7807A
987200	SWC 200DB	LMR200DB	n/a
985200	SWC 200FR	LMR200FR	7807R
989200	SWC 200EF	LMR200UF	n/a
986240	SWC 240	LMR240	7808A
987240	SWC 240DB	LMR240DB	n/a
985240	SWC 240FR	LMR240FR	7808R
989240	SWC 240EF	LMR240UF	n/a
986300	SWC 300	LMR300	7809A
987300	SWC300DB	LM300DB	n/a
985300	SWC300FR	LMR300FR	7809R
986400	SWC400	LMR400	7810A
987400	SWC400DB	LMR400DB	7810WB
985400	SWC400FR	LMR400FR	7810R
989400	SWC400EF	LMR400UF	n/a
986500	SWC500	LMR500	7976A
987500	SWC500DB	LMR500DB	7976WB
985500	SWC500FR	LMR500FR	7976R
986600	SWC600	LMR600	7977A
987600	SWC600DB	LMR600DB	7977WB
985600	SWC600FR	LMR600FR	7977R
988418	M17/02-RG06	AA3810	n/a
988587	M17/06-RG011	AA3811	9212
988870	M17/06-RG012	AA3812	n/a
988585	M17/015-RG022	AA3396	n/a
988591	M17/028-RG058	AA3397	9203

CCI Part Number	Spec Design/Description	Times Microwave	Belden
988299	M17/029-RG059	AA3797	9204
988405	M17/030-RG062	AA3398	9862
988295	M17/031-RG063	AA3815	n/a
982950	M17/031-RG079	AA3816	n/a
988463	M17/045-RG108	AA3399	9859
988409	M17/074-RG213	AA3408	n/a
988411	M17/074-RG215	AA3407	n/a
988412	M17/073-RG212	AA3406	n/a
988421	M17/075-RG214	AA3409	n/a
988465	M17/075-RG365	AA4761	n/a
988296	M17/077-RG216	AA3823	9850
988419	M17/078-RG217	AA3410	n/a
988423	M17/084-RG223	AA3413	n/a
988480	M17/090-RG071	AA4444	9169
988596	M17/119-RG174	AA3419	n/a
991020	RG 8X	n/a	9258
991011	RG8 11AWG FPE 95%	n/a	8214
991007	RG8 Low Loss 9AWG air-PE	n/a	9913
991039	RG58 20BC PE 80%BC	n/a	9201
991053	RG58 20BC FPE 80%BC	n/a	n/a
991041	RG58 20BC PE 95%BC	n/a	8240
991045	RG58 20(19)PE 95%TC CL2	n/a	8259
991047	RG58C/U Commercial -NCV	n/a	n/a
991049	RG58 20(19) TC FPE 95%TC	n/a	8219
993317	RG58 Thinet IEEE CL2	n/a	9907
991069	RG174/U Commercial AWM	n/a	8216
991071	RG213/U Commercial NCV	n/a	n/a
991075	RG214/U Commercial NCV	n/a	n/a
991079	RG223/U Commercial NCV	n/a	n/a
991401	RG55B/U 20SPC/2(95%)TCNCV	n/a	n/a





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