



Low Loss 50 Ohm Wireless RF Transmission Cable

RG-174 Type

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
RG-174 Type • 25 AWG Solid .018" Bare Copper Conductor • Beldfoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)																			
Solid Polyethylene Insulation • Black PVC Jacket																			
RF100A 80°C 	7805	—	100†	30.5	1.8	.8	25 AWG	.061	1.55	Beldfoil + 90% TC Braid 9.1Ω/M' 29.9Ω/km	.110	2.79	50	66%	31.2	102.4	30	3.8	12.4
			500	152.4	5.5	2.5	(solid)	50	4.9								16.1		
			1000	304.8	10.0	4.5	.018"	150	8.6								28.2		
							BC	220	10.4								34.2		
							3.2Ω/M'	450	15.2								49.9		
							10.5Ω/km	900	22.0								72.3		
								1500	28.7								94.3		
								1800	31.7								104.0		
								2000	33.4								109.7		
								2500	37.8								124.2		
					3000	42.0	137.8												
					4500	52.3	171.5												
					5800	60.9	199.8												
					6000	62.0	203.3												
Mates with standard RG-174 connectors. Suitable for Aerial applications when supported by a Messenger wire.																			

RG-174 Type • 24.5 AWG Solid .020" Bare Copper Conductor • Beldfoil + Tinned Copper Braid Shield (93% Coverage)

Foam HDPE Insulation • Gray PVC Jacket																			
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
RG-174 Type • 24.5 AWG Solid .020" Bare Copper Conductor • Beldfoil + Tinned Copper Braid Shield (93% Coverage)																			
Foam HDPE Insulation • Gray PVC Jacket																			
RF100LL 80°C 	7805R	NEC:	100†	30.5	1.8	.8	24.5 AWG	.060	1.52	Beldfoil + 93% TC Braid 9.3Ω/M' 30.5Ω/km	.110	2.79	50	73.5%	26.2	86.0	30	3.5	11.5
		CMR:	500	152.4	5.5	2.5	(solid)	50	4.6								15.0		
		CEC:	1000	304.8	10.0	4.5	.020"	150	8.0								26.1		
							BC	220	9.6								31.6		
							27.3Ω/M'	450	14.0								46.1		
							94.2Ω/km	900	20.2								66.4		
								1500	26.6								87.3		
								1800	29.5								96.7		
								2000	31.2								102.3		
								2500	35.4								116.3		
						3000	39.4	129.2											
						4500	50.0	164.2											
						5800	59.0	193.6											
						6000	60.6	198.7											
Mates with standard RG-174 connectors.																			

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

†May contain more than one piece. Min. length of any one piece is 25 ft.

Low Loss 50 Ohm Wireless RF Transmission Cable

RG-58 Type

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

RG-58 Type • 19 AWG Solid .037" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket

RF195 80°C	7806A	—	500	152.4	14.5	6.6	19 AWG (solid) .037" BC 7.6Ω/M' 24.9Ω/km	.110	2.79	Duofoil + 90% TC Braid 4.2Ω/M' 13.8Ω/km	.195	4.95	50	77%	24.3	79.7	30	2.0	6.6																							
			1000	304.8	23.0	10.4											50	2.5	8.2	150	4.0	13.3	220	4.9	16.1	450	7.1	23.4	900	10.3	33.8	1500	13.7	44.8	1800	15.2	49.7	2000	16.1	52.8	2500	18.3



100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard RG-58 connectors.*

Suitable for Outdoor and Direct Burial applications.

Gas-injected Foam HDPE Insulation • Black PVC Jacket

RF195 80°C	7806R	NEC:	500	152.4	16.5	7.5	19 AWG (solid) .037" BC 7.6Ω/M' 24.9Ω/km	.110	2.79	Duofoil + 90% TC Braid 4.2Ω/M' 13.8Ω/km	.195	4.95	50	77%	24.3	79.7	30	2.0	6.6																								
		CMR:	1000	304.8	27.0	12.3											50	2.5	8.2	150	4.0	13.3	220	4.9	16.1	450	7.1	23.4	900	10.3	33.8	1500	13.7	44.8	1800	15.2	49.7	2000	16.1	52.8	2500	18.3	60.1



CMG FT4

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard RG-58 connectors.*

RG-58 Type • 17 AWG Solid .044" Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket

RF200 80°C	7807A	—	500	152.4	15.0	6.8	17 AWG (solid) .044" BC 3.3Ω/M' 10.9Ω/km	.116	2.95	Duofoil + 95% TC Braid 4.2Ω/M' 13.8Ω/km	.195	4.95	50	85%	23.5	77.1	30	1.6	5.4																							
			1000	304.8	24.0	10.9											50	2.1	7.0	150	3.7	12.1	220	4.5	14.6	450	6.5	21.2	900	9.2	30.1	1500	12.0	39.2	1800	13.2	43.2	2000	14.0	45.8	2500	15.7



100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard Land Mobile Radio type connectors.*

Suitable for Outdoor and Direct Burial applications.

Gas-injected Foam HDPE Insulation • Black PVC Jacket

RF200 80°C	7807R	NEC:	500	152.4	13.5	6.1	17 AWG (solid) .044" BC 3.3Ω/M' 10.9Ω/km	.116	2.95	Duofoil + 95% TC Braid 4.2Ω/M' 13.8Ω/km	.195	4.95	50	85%	23.5	77.1	30	1.6	5.4																								
		CMR:	1000	304.8	27.0	12.3											50	2.1	7.0	150	3.7	12.1	220	4.5	14.6	450	6.5	21.2	900	9.2	30.1	1500	12.0	39.2	1800	13.2	43.2	2000	14.0	45.8	2500	15.7	51.6



CMG FT4

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard Land Mobile Radio type connectors.*

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Please consult Belden's website, www.belden.com, for complete listing.


Low Loss 50 Ohm Wireless RF Transmission Cable

RG-8X Type

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

RG-8X Type • 15 AWG Solid .057" Bare Copper Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket

RF240 80°C	7808A	—	500	152.4	18.0	8.2	15 AWG (solid) .057" BC 3.2Ω/M' 10.5Ω/km	.150	3.81	Duobond II* + 95% TC Braid 2.8Ω/M' 9.2Ω/km	.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
			1000	304.8	39.0	17.7											50	1.6	5.3
																			
1500 9.1 30.0 1800 10.1 33.2 2000 10.7 35.0 2500 12.0 39.5 3000 13.4 43.9 4500 16.7 54.7 5800 19.5 64.0 6000 19.8 65.0																			


100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard RG-8X connectors.**

Suitable for Outdoor and Direct Burial applications.

Gas-injected Foam HDPE Insulation • Black PVC Jacket


RF240 80°C	7808R	NEC:	500	152.4	20.0	9.1	15 AWG (solid) .057" BC 3.2Ω/M' 10.5Ω/km	.150	3.81	Duobond II* + 95% TC Braid 2.8Ω/M' 9.2Ω/km	.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
		CMR:	1000	304.8	44.0	20.0											50	1.6	5.3
GEC: CMG FT4																			
																			
1500 9.1 30.0 1800 10.1 33.2 2000 10.7 35.0 2500 12.0 39.5 3000 13.4 43.9 4500 16.7 54.7 5800 19.5 64.0 6000 19.8 65.0																			

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard RG-8X connectors.**

Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

RF240 80°C	7808WB	—	500	152.4	18.0	8.2	15 AWG (solid) .057" BC 3.2Ω/M' 10.5Ω/km	.150	3.81	Duobond II* + 95% TC Braid 2.8Ω/M' 9.2Ω/km	.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
			1000	304.8	39.0	17.7											50	1.6	5.3
																			
1500 9.1 30.0 1800 10.1 33.2 2000 10.7 35.0 2500 12.0 39.5 3000 13.4 43.9 4500 16.7 54.7 5800 19.5 64.0 6000 19.8 65.0																			

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with standard RG-8X connectors.**

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Please consult Belden's website, www.belden.com, for complete listing.


Low Loss 50 Ohm Wireless RF Transmission Cable

Intermediate Type

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

Intermediate Type • 13 AWG Solid .072" Bare Copper Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket

RF300 80°C	7809A	—	500	152.4	30.5	13.9	13 AWG (solid) .072" BC 2.1Ω/M' 6.9Ω/km	.190	4.83	Duobond II* + 95% TC Braid BC 2.4Ω/M' 7.8Ω/km	.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
			1000	304.8	58.0	26.3											50	1.3	4.2
																	150	2.2	7.3
																	220	2.7	8.9
																	450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
																	2000	8.6	28.2
																	2500	9.7	31.9
																	3000	10.8	35.4
																	4500	13.5	44.4
5800	15.8	51.8																	
6000	16.0	52.6																	

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with Land Mobile Radio type connectors.**
Suitable for Outdoor and Direct Burial applications.

Gas-injected Foam HDPE Insulation • Black PVC Jacket

RF300 80°C	7809R	NEC:	500	152.4	34.0	15.5	13 AWG (solid) .072" BC 2.1Ω/M' 6.9Ω/km	.190	4.83	Duobond II* + 95% TC Braid BC 2.4Ω/M' 7.8Ω/km	.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
		CMR:	1000	304.8	65.0	29.5											50	1.3	4.2
																	150	2.2	7.3
																	220	2.7	8.9
																	450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
																	2000	8.6	28.2
																	2500	9.7	31.9
																	3000	10.8	35.4
																	4500	13.5	44.4
5800	15.8	51.8																	
6000	16.0	52.6																	

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with Land Mobile Radio type connectors.**

Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

RF300 80°C	7809WB	—	500	152.4	30.5	13.9	13 AWG (solid) .072" BC 2.1Ω/M' 6.9Ω/km	.190	4.83	Duobond II* + 95% TC Braid BC 2.4Ω/M' 7.8Ω/km	.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
			1000	304.8	58.0	26.3											50	1.3	4.2
																	150	2.2	7.3
																	220	2.7	8.9
																	450	3.9	12.9
																	900	5.6	18.3
																	1500	7.3	24.0
																	1800	8.1	26.5
																	2000	8.6	28.2
																	2500	9.7	31.9
																	3000	10.8	35.4
																	4500	13.5	44.4
5800	15.8	51.8																	
6000	16.0	52.6																	

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with Land Mobile Radio type connectors.**
Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Please consult Belden's website, www.belden.com, for complete listing.

Low Loss 50 Ohm Wireless RF Transmission Cable

RG-8 Type

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

RG-8 Type • 10 AWG Solid .108" Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black Polyethylene Jacket


RF400 80°C	7810A	—	500	152.4	42.5	19.3	10 AWG (solid) .108" BCCA 1.34Ω/M' 4.4Ω/km	.285	7.24	Duobond II* + 95% TC Braid 2.0Ω/M' 9.2Ω/km	.403	10.23	50	86%	23.0	75.5	30	.7	2.1
			1000	304.8	86.0	39.0											50	.9	2.8
																	150	1.5	4.9
																	220	1.8	6.0
																	450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
																	2000	6.0	19.6
																	2500	6.7	22.0
																	3000	7.5	24.4
																	4500	9.5	31.1
5800	11.1	36.4																	
6000	11.4	37.3																	

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with 9913 and Land Mobile Radio type connectors.**
Suitable for Outdoor and Direct Burial applications.

Gas-injected Foam HDPE Insulation • Black PVC Jacket

RF400 80°C	7810R*	NEC:	500	152.4	47.0	21.3	10 AWG (solid) .108" BCCA 1.34Ω/M' 4.4Ω/km	.285	7.24	Duobond II* + 95% TC Braid 2.0Ω/M' 9.2Ω/km	.403	10.23	50	86%	23.0	75.5	30	.7	2.1
		CMR:	1000	304.8	79.0	35.8											50	.9	2.8
																	150	1.5	4.9
																	220	1.8	6.0
																	450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
																	2000	6.0	19.6
																	2500	6.7	22.0
																	3000	7.5	24.4
																	4500	9.5	31.1
5800	11.1	36.4																	
6000	11.4	37.3																	

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with 9913 and Land Mobile Radio type connectors.**
Suitable for Outdoor applications.

Gas-injected Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

RF400 80°C	7810WB	—	500	152.4	39.5	17.9	10 AWG (solid) .108" BCCA 1.34Ω/M' 4.4Ω/km	.285	7.24	Duobond II* + 95% TC Braid 2.0Ω/M' 9.2Ω/km	.403	10.23	50	86%	23.0	75.5	30	.7	2.1
			1000	304.8	80.0	36.3											50	.9	2.8
																	150	1.5	4.9
																	220	1.8	6.0
																	450	2.7	8.8
																	900	3.8	12.6
																	1500	5.1	16.6
																	1800	5.6	18.5
																	2000	6.0	19.6
																	2500	6.7	22.0
																	3000	7.5	24.4
																	4500	9.5	31.1
5800	11.1	36.4																	
6000	11.4	37.3																	

100% Sweep tested. 6 GHz. Max. VSWR 1.25:1.

Belden® The Wire in Wireless.

Mates with 9913 and Land Mobile Radio type connectors.**
Suitable for Outdoor and Direct Burial applications.

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Please consult Belden's website, www.belden.com, for complete listing.

Low Loss 50 Ohm Wireless RF Transmission Cable

Series RF500

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

7 AWG Solid .142" Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

Foam HDPE Insulation • Black Polyethylene Jacket

80°C	7976A new	—	500	152.4	56.0	25.4	7 AWG (solid) .142"	.370	9.40	Duobond II* + 90% TC Braid	.500	12.70	50	84%	25.1	82.4	30	.6	1.8
			1000	304.8	108.0	49.0	BCCA .8Ω/M' 2.7Ω/km			5.3Ω/km							50	.7	2.4
																	150	1.2	3.9
																	220	1.5	4.9
																	450	2.2	7.2
																	900	3.2	10.5
																	1500	4.2	13.8
																	1800	4.7	15.4
																	2000	5.0	16.4
																	2500	5.7	18.7
																	3000	6.3	20.7
																	3500	6.9	22.6
																	4500	8.0	26.2
																	5800	9.3	30.5
																	6000	9.5	31.2

Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.

Foam HDPE Insulation • Black PVC Jacket

80°C	7976R new	NEC: CMR CEC: CMG FT4	500	152.4	67.5	30.6	7 AWG (solid) .142"	.370	9.40	Duobond II* + 90% TC Braid	.500	12.70	50	84%	25.1	82.4	30	.6	1.8
			1000	304.8	131.0	59.5	BCCA .8Ω/M' 2.7Ω/km			5.3Ω/km							50	.7	2.4
																	150	1.2	3.9
																	220	1.5	4.9
																	450	2.2	7.2
																	900	3.2	10.5
																	1500	4.2	13.8
																	1800	4.7	15.4
																	2000	5.0	16.4
																	2500	5.7	18.7
																	3000	6.3	20.7
																	3500	6.9	22.6
																	4500	8.0	26.2
																	5800	9.3	30.5
																	6000	9.5	31.2

Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.

Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

80°C	7976WB new	—	500	152.4	56.5	25.7	7 AWG (solid) .142"	.370	9.40	Duobond II* + 90% TC Braid	.500	12.70	50	84%	25.1	82.4	30	.6	1.8
			1000	304.8	109.0	49.9	BCCA .8Ω/M' 2.7Ω/km			5.3Ω/km							50	.7	2.4
																	150	1.2	3.9
																	220	1.5	4.9
																	450	2.2	7.2
																	900	3.2	10.5
																	1500	4.2	13.8
																	1800	4.7	15.4
																	2000	5.0	16.4
																	2500	5.7	18.7
																	3000	6.3	20.7
																	3500	6.9	22.6
																	4500	8.0	26.2
																	5800	9.3	30.5
																	6000	9.5	31.2

Suitable for Outdoor and Direct Burial applications and Aerial applications when supported by a Messenger wire.

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

Low Loss 50 Ohm Wireless RF Transmission Cable

Series RF600

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

5.5 AWG Solid .176" Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (85% Coverage)

Foam HDPE Insulation • Black Polyethylene Jacket

80°C	7977A <small>new</small>	—	500	152.4	73.5	33.4	5.5 AWG (solid) .176" BCCA .5Ω/M' 1.7Ω/km	.455	11.56	Duobond II* + 85% TC Braid 1.8Ω/M' 5.9Ω/km	.590	14.99	50	85%	24.6	80.7	30	.5	1.5
			1000	304.8	145.0	65.8											50	.6	2.0
																	150	1.0	3.2
																	220	1.2	3.9
																	450	1.7	5.6
																	900	2.5	8.3
																	1500	3.4	11.2
																	1800	3.8	12.4
																	2000	4.0	13.2
																	2500	4.6	15.0
																	3000	5.1	16.6
																	3500	5.6	18.2
																	4500	6.4	21.1
																	5800	7.6	24.8
																	6000	7.8	25.4

Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.

Foam HDPE Insulation • Black PVC Jacket

80°C	7977R <small>new</small>	NEC: CMR CEC: CMG FT4	500	152.4	89.5	40.6	5.5 AWG (solid) .176" BCCA .5Ω/M' 1.7Ω/km	.455	11.56	Duobond II* + 85% TC Braid 1.8Ω/M' 5.9Ω/km	.590	14.99	50	84%	24.6	80.7	30	.5	1.5
			1000	304.8	173.0	78.5											50	.6	2.0
																	150	1.0	3.2
																	220	1.2	3.9
																	450	1.7	5.6
																	900	2.5	8.3
																	1500	3.4	11.2
																	1800	3.8	12.4
																	2000	4.0	13.2
																	2500	4.6	15.0
																	3000	5.1	16.6
																	3500	5.6	18.2
																	4500	6.4	21.1
																	5800	7.6	24.8
																	6000	7.8	25.4

Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.

Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

80°C	7977WB <small>new</small>	—	500	152.4	74.0	33.6	5.5 AWG (solid) .176" BCCA .5Ω/M' 1.7Ω/km	.455	11.56	Duobond II* + 85% TC Braid 1.8Ω/M' 5.9Ω/km	.590	14.99	50	85%	24.6	80.7	30	.5	1.5
			1000	304.8	146.0	66.3											50	.6	2.0
																	150	1.0	3.2
																	220	1.2	3.9
																	450	1.7	5.6
																	900	2.5	8.3
																	1500	3.4	11.2
																	1800	3.8	12.4
																	2000	4.0	13.2
																	2500	4.6	15.0
																	3000	5.1	16.6
																	3500	5.6	18.2
																	4500	6.4	21.1
																	5800	7.6	24.8
																	6000	7.8	25.4

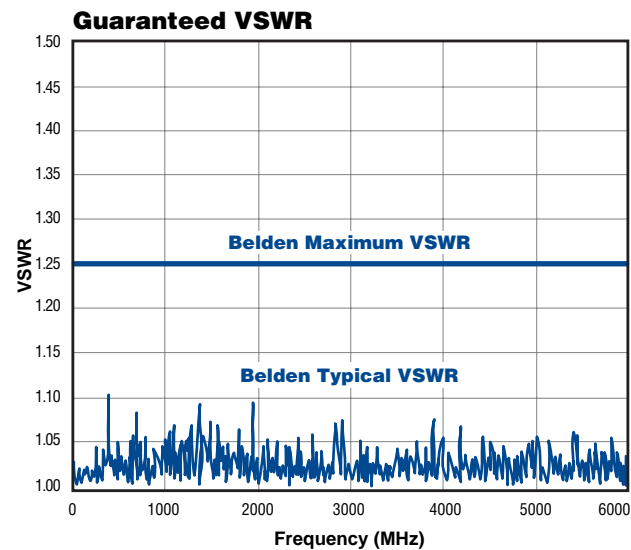
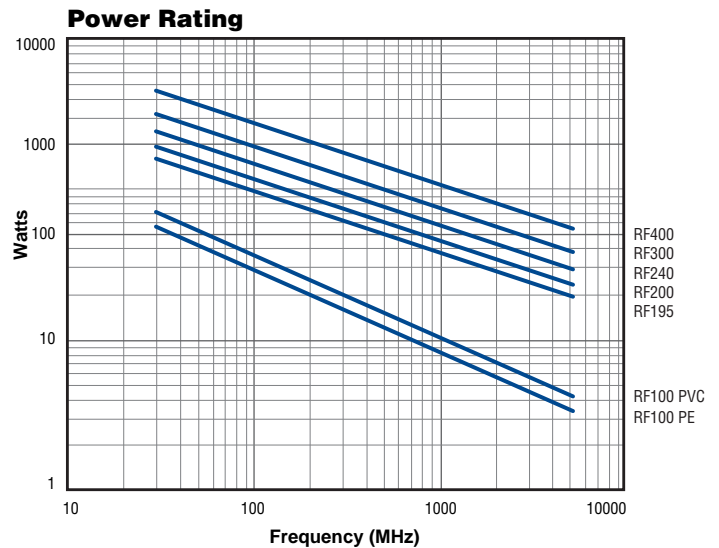
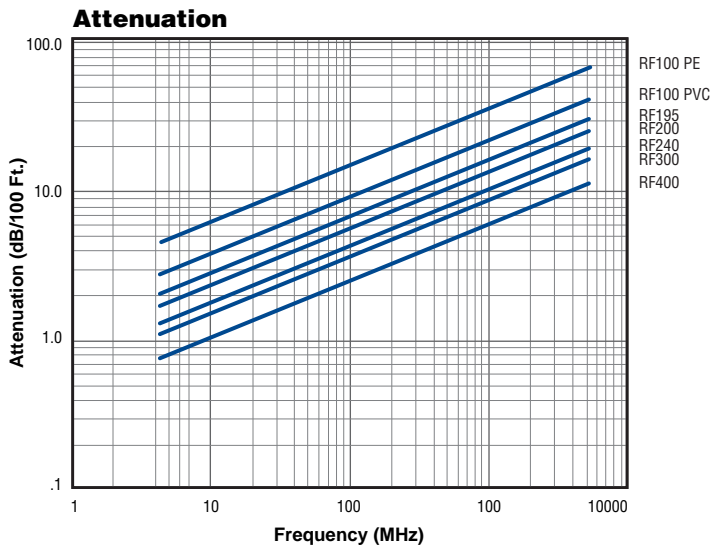
Suitable for Outdoor and Direct Burial applications and Aerial applications when supported by a Messenger wire.

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

Low Loss 50 Ohm Wireless RF Transmission Coax

Electrical Characteristics



Voltage Standing Wave Ratio is a measurement of the reflected power in a cable or instrument. The higher the VSWR the poorer the transmission characteristics of the cable.

Phase Stability

Phase Attribute	Typical Range (0.45 GHz to 6.0 GHz)	
	ppm/°C	Degree/GHz/m
Temperature (-40°C to +85°C) ¹	±9	±0.6
Bending & Flexing (25 cycles) ²	NA	±1.1

1: Per IEC 60966-1 clause 8.8

2: Per IEC 60966-1 clause 8.6

RG Cable Replacement Guide

Part Number	Size	Replacing
7805	RF100A	RG-174/U
7805R	RF100LL	RG-174/U
7806A	RF195	RG-58/U
7807A	RF200	RG-58/U
7808A	RF240	RG-8X
7809A	RF300	RG-8X
7810A	RF400	RG-8U

50 Ohm Transmission and Computer Cable

RG-188A/U, RG-174/U and RG-58/U Type

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

RG-174/U Type • 26 AWG Stranded (7x34) .019" Bare Copper-covered Steel Conductor • Tinned Copper Braid Shield (90% Coverage)

Polyethylene Insulation • Black PVC Jacket

UL AWM Style 1354 (30V 75°C)	8216	—	100	30.5	1.1	.5	26 AWG (7x34)	.060	1.52	TC Braid	.110	2.79	50	66%	30.8	101.0	1	1.9	6.2
			500	152.4	5.0	2.3				90% Shield							10	3.3	10.8
			1000††	304.8	9.0	4.1	.019"			Coverage							50	5.8	19.0
							BCCS			10.7Ω/M'							100	8.4	27.6
							97.0Ω/M'			35.1Ω/km							200	12.5	41.0
							318.2Ω/km										400	19.0	62.3
																	700	27.0	88.6
																	900	31.0	101.7
																	1000	34.0	111.5



RG-188A/U Type • 26 AWG Stranded (7x34) .020" Silver-plated Copper-covered Steel Conductor • SPC Braid Shield (96% Coverage)

TFE Teflon® Insulation • White TFE Tape Jacket

200°C VW-1	83269	—	100†	30.5	2.0	.9	26 AWG (7x34)	.058	1.47	SPC Braid	.098	2.49	50	69.5%	29.0	95.1	1	1.2	3.9
			500†	152.4	6.5	2.9	.020"			96% Shield							10	2.7	8.9
			1000†	304.8	12.0	5.5				Coverage							50	5.6	18.4
							SCCCS			8.5Ω/M'							100	8.3	27.2
							91.2Ω/M'			27.9Ω/km							200	12.0	39.4
							299.2Ω/km										400	17.5	57.4
																	700	23.7	77.8
																	900	27.3	89.6
																	1000	29.0	95.1

MIL-C-17D

RG-58/U Type • 20 AWG Solid .033" Bare Copper Conductor • Bare Copper Braid Shield (78% Coverage)

Polyethylene Insulation • Black PVC Jacket

80°C	9201	—	U-500	U-152.4	13.0	5.9	20 AWG (solid)	.116	2.95	BC Braid	.193	4.90	51.5	66%	28.5	93.5	1	.3	1.1
			500	152.4	11.5	5.2	.033"			78% Shield							10	1.1	3.6
			U-1000	U-304.8	25.0	11.4				Coverage							50	2.5	8.2
			1000	304.8	23.0	10.4	BC			5.5Ω/M'							100	3.8	12.5
							10.0Ω/M'			18.0Ω/km							200	5.6	18.4
							33.1Ω/km										400	8.4	27.6
																	700	11.7	38.4
																	900	13.7	44.9
																	1000	14.5	47.6

RG-58/U Type • 20 AWG Solid .033" Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (55% Coverage)

Polyethylene Insulation • Black PVC Jacket

UL AWM Style 1354 (30V 60°C)	9310**	—	500	152.4	10.5	4.8	20 AWG (solid)	.114	2.90	Duobond II* + 55%	.193	4.90	50	66%	30.8	101.0	1	.5	1.5
			U-1000	U-304.8	22.0	10.0	.033"			TC Braid							10	1.4	4.6
			1000	304.8	21.0	9.5				Coverage							50	2.8	9.2
							BC			8.0Ω/M'							100	3.8	12.5
							9.4Ω/M'			24.4Ω/km							200	5.4	17.7
							28.6Ω/km										400	7.9	25.9
																	700	11.1	36.4
																	900	12.8	42.0
																	1000	13.9	45.6

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SCCCS = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper • TC = Tinned Copper • TFE = Tetra Fluoroethylene
Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**See Belden's website, www.belden.com, for connector information.

† May contain more than one piece, min. length of any one piece is 25 ft.

†† May contain more than one piece, min. length of any one piece is 100 ft. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

BELDEN

For more information, contact Belden Technical Support: **1-800-BELDEN-1** • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

50 Ohm Transmission and Computer Cable

RG-58A/U Type

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

RG-58A/U Type • 20 AWG Stranded (19x32) .037" Tinned Copper Conductor • Tinned Copper Braid Shield (96% Coverage)

Foam Polyethylene Insulation • Black or White PVC Jacket																			
UL AWM	8219	NEC:	U-500	U-152.4	13.5	6.1	20 AWG	.114	2.90	TC Braid	.194	4.93	53.5	73%	26.5	86.9	1	.4	1.2
Style 1354		CM	500 [▲]	152.4	13.0	6.0	(19x32)			96% Shield							10	1.3	4.3
(30V 80°C)		CEC:	U-1000 [▲]	U-304.8	27.0	12.3	.037"			Coverage							50	3.1	10.2
		CM	1000	304.8	26.0	11.8	TC			4.1Ω/M'							100	4.5	14.8
									8.8Ω/M'								200	6.6	21.7
									28.9Ω/km								400	10.0	32.8
																	700	14.2	46.6
																	900	16.6	54.5
																	1000	18.1	59.4

P-MSHA • SC-182/5**

*500 ft. and U-1000 ft. put-ups available in Black only. Black jacket suitable for Aerial (when supported by a messenger) and Outdoor applications.

RG-58A/U Type • 20 AWG Stranded (19x32) .037" Tinned Copper Conductor • Duobond® II* + Tinned Copper Braid Shield (55% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM	9311**	NEC:	500	152.4	10.5	4.8	20 AWG	.114	2.90	Duobond II*	.193	4.90	52	75%	26.0	85.3	1	.5	1.6
Style 1354		CM	U-1000	U-304.8	23.0	10.5	(19x32)			+ 55% TC							10	1.5	4.9
(30V 80°C)		CEC:	1000	304.8	21.0	9.5	.037"			Braid							50	2.9	9.5
		CM					TC			17.0Ω/M'							100	4.0	13.1
									8.8Ω/M'								200	5.7	18.7
									28.9Ω/km								400	8.5	27.9
																	700	12.2	40.0
																	900	14.5	47.6
																	1000	15.8	51.8

RG-58A/U Type • 20 AWG Stranded (19x33) .035" Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black PVC Jacket																			
75°C	8259	—	100	30.5	3.5	1.6	20 AWG	.116	2.95	TC Braid	.192	4.88	50	66%	30.8	101.0	1	.4	1.4
			U-500	U-152.4	13.5	6.1	(19x33)			95% Shield							10	1.5	4.9
			500	152.4	13.5	6.1	.035"			Coverage							50	3.7	12.1
			U-1000	U-304.8	25.0	11.3	TC			4.1Ω/M'							100	5.4	17.7
			1000	304.8	26.0	11.8	10.8Ω/M'			13.4Ω/km							200	8.1	26.6
							35.4Ω/km										400	12.4	40.7
																	700	17.7	58.1
																	900	21.1	69.2
																	1000	22.8	74.8

Suitable for Aerial (when supported by a messenger) and Outdoor applications.

RG-58A/U Type • 20 AWG Solid Bare Copper Conductor • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black PVC Jacket																			
UL AWM	8240	NEC:	100	30.5	3.6	1.6	20 AWG	.116	2.95	TC Braid	.193	4.90	51.5	66%	28.5	93.5	1	.3	1.1
Style 1354		CMX	U-500	U-152.4	14.0	6.4	(solid)			95% Shield							10	1.1	3.6
(30V 80°C)		CEC:	500	152.4	13.0	5.9	.033"			Coverage							50	2.5	8.2
VW-1		CMX	U-1000	U-304.8	27.0	12.3	BC			4.1Ω/M'							100	3.8	12.5
			1000	304.8	26.0	11.8	10.0Ω/M'			13.4Ω/km							200	5.6	18.4
							32.8Ω/km										400	8.4	27.6
																	700	11.7	38.4
																	900	13.7	44.9
																	1000	14.5	47.6

Suitable for Aerial (when supported by a messenger) and Outdoor applications.

Plenum • FEP Teflon® Insulation • Black FEP Teflon Jacket																			
200°C	88240	NEC:	500 [†]	152.4	12.0	5.4	20 AWG	.107	2.72	TC Braid	.159	4.04	53.5	69.5%	26.4	86.6	1	.5	1.6
		CMP	1000 [†]	304.8	24.0	10.9	(solid)			95% Shield							10	1.2	3.9
		CEC:					.032"			Coverage							50	3.0	9.8
		CMP FT6					BC			6.7Ω/M'							100	4.3	14.2
							10.2Ω/M'			22.0Ω/km							200	6.4	21.0
							33.5Ω/km										400	9.7	31.7
																	700	13.7	45.0
																	900	16.1	52.8
																	1000	17.3	56.6

Plenum • FEP Teflon Insulation • Natural Flamarrest® Jacket																			
75°C	82240	NEC:	U-500 [†]	U-152.4	13.5	6.1	20 AWG	.107	2.72	TC Braid	.159	4.04	53.5	69.5%	26.4	86.6	1	.5	1.6
		CMP	U-1000 [†]	U-304.8	26.0	11.8	(solid)			95% Shield							10	1.2	3.9
		CEC:	1000 [†]	304.8	24.0	10.9	.032"			Coverage							50	3.0	9.8
		CMP FT6					BC			6.7Ω/M'							100	4.3	14.2
							10.2Ω/M'			22.0Ω/km							200	6.4	21.0
							33.5Ω/km										400	9.7	31.7
																	700	13.7	45.0
																	900	16.1	52.8
																	1000	17.3	56.6

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

**Pennsylvania Department of Environmental Resource and United States Mine Safety and Health Administration certification.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotation of RG/U cables not listed.

See Belden's website, www.belden.com, for connector information.

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

50 Ohm Transmission and Computer Cable

RG-8X and RG-8/U Type

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

RG-8X Type • 16 AWG Stranded (19x29) .058" Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)

Gas-injected FPE Insulation • Black PVC Jacket

UL AWM	9258	NEC:	U-500	U-152.4	20.0	9.1	16 AWG	.155	3.94	BC Braid	.242	6.15	50	82%	24.8	75.6	1	.3	1.0
Style 1354		CM	500	152.4	18.5	8.4	(19x29)			95% Shield							10	.9	3.0
(30V 80°C)		CEC:	U-1000	U-304.8	39.0	17.7	.058"			Coverage							50	2.1	6.9
		CM	1000	304.8	40.0	18.2	BC			3.3Ω/M'							100	3.1	10.2
							4.3Ω/M'			10.8Ω/km							200	4.5	14.8
						14.1Ω/km										400	6.6	21.7	
																700	9.1	29.9	
																900	10.7	35.1	
																1000	11.2	36.7	

*1000 ft. put-up also available in White.
Suitable for Outdoor and Aerial applications.

RG-8/U Type • 13 AWG Stranded (7x21) .085" Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)

Polyethylene Insulation • Black PVC Jacket

75°C	8237	NEC:	100	30.5	13.6	6.2	13 AWG	.285	7.24	BC Braid	.405	10.29	52	66%	28.5	93.5	1	.2	.5
		CMH	500	152.4	58.0	26.3	(7x21)			97% Shield							10	.6	1.8
		CEC:	1000	304.8	114.0	51.7	.085"			Coverage							50	1.3	4.3
		CMH FT1					BC			1.2Ω/M'							100	1.9	6.2
							1.9Ω/M'			3.9Ω/km							200	2.8	9.2
						6.2Ω/km										400	4.2	13.8	
																700	5.9	19.4	
																900	6.9	22.6	
																1000	7.4	24.3	
																4000	23.2	76.1	

JAN-C-17A
Suitable for Outdoor and Aerial applications.

Polyethylene Insulation • Black Non-contaminating PVC Jacket

UL AWM	9251	NEC:	500	152.4	58.0	26.3	13 AWG	.285	7.24	BC Braid	.405	10.29	52	66%	28.5	93.5	1	.2	.5
Style 1354		CMX	1000	304.8	115.0	52.3	(7x21)			97% Shield							10	.6	1.8
(30V 60°C)		CEC:					.085"			Coverage							50	1.3	4.3
		CMX					BC			1.2Ω/M'							100	1.9	6.2
							1.9Ω/M'			3.9Ω/km							200	2.8	9.2
						6.2Ω/km										400	4.2	13.8	
																700	5.9	19.4	
																900	6.9	22.6	
																1000	7.4	24.3	
																4000	23.2	76.1	

MIL-C-17D

RG-8/U Type • 11 AWG Stranded (7x19) .108" Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket

UL AWM	8214	NEC:	100	30.5	14.2	6.5	11 AWG	.285	7.24	BC Braid	.403	10.24	50	78%	26	85.3	1	.1	.5
Style 1354		CM	500	152.4	61.0	27.7	(7x19)			97% Shield							10	.5	1.7
(30V 80°C)		CEC:	1000	304.8	121.0	55.0	.108"			Coverage							50	1.2	3.9
		CM					BC			1.1Ω/M'							100	1.7	5.6
							1.2Ω/M'			3.6Ω/km							200	2.6	8.5
						3.9Ω/km										400	3.9	12.8	
																700	5.6	18.4	
																900	6.5	21.3	
																1000	7.0	23.0	
																4000	21.5	70.5	

Suitable for Outdoor and Aerial applications.

BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

50 Ohm Transmission and Computer Cable

RG-8/U Type

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

RG-8/U Type • 10 AWG Solid .108" Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (90% Coverage)

Semi-solid Polyethylene Insulation • Black PVC Jacket

Low Loss 80°C 	9913	—	100	30.5	14.2	6.4	10 AWG	.286	7.26	Duobond II* + 90%	.405	10.29	50	84%	24.6	80.7	1	.3	1.0			
			250	76.2	31.8	14.4	(solid)											10	.5	1.7		
			500	152.4	57.0	25.9	.108"												50	1.0	3.3	
			1000	304.8	116.0	52.6	BC												100	1.4	4.6	
							.9Ω/M'													200	1.8	6.0
							3.0Ω/km													400	2.6	8.5

For Plenum version of 9913, see 89913.

Suitable for Outdoor and Aerial applications.


Plenum • Semi-solid FEP Insulation • Black Fluorocopolymer Jacket

150°C 	89913	NEC: CMP CEC: CMP FT6	500†	152.4	63.0	28.6	10 AWG	.295	7.49	Duobond II* + 90%	.364	9.25	50	83%	25.0	82.0	1	.1	.3			
			1000†	304.8	128.0	58.2	(solid)												10	.4	1.3	
							.108"													50	1.0	3.3
							BC													100	1.6	5.2
							.9Ω/M'													200	2.3	7.5
							3.0Ω/km													400	3.4	11.1

700	5.0	16.4
900	6.0	19.7
1000	6.9	22.6
4000	17.0	55.8

RG-8/U Type • 10 AWG Stranded (7x19) .108" Bare Copper Conductor • Duobond II + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Matte Black Belflex® Jacket


Low Loss High-Flex 80°C 	9913F7	—	100	30.5	12.5	5.7	10 AWG	.285	7.24	Duobond II* + 95% TC	.405	10.29	52	85%	22.5	80.7	1	.4	1.3				
			250	76.2	27.8	12.6	(7x19)												10	.6	2.0		
			500	152.4	52.5	23.8	.108"													50	1.1	3.6	
			1000	304.8	104.0	47.2	BC													100	1.5	4.9	
							1.1Ω/M'														200	2.0	6.6
							3.7Ω/km														400	3.0	9.8

700	4.0	13.1
900	4.7	15.4
1000	5.0	16.4
4000	12.1	39.7

Suitable for Outdoor and Aerial applications.

RG-8/U Type • 10 AWG Solid .103" Bare Copper Conductor • Duobond II + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black PVC Jacket

Low Loss UL AWM Style 1354 (30V 80°C) 	9914	NEC: CMG CEC: CMG FT4	500	152.4	56.0	25.4	10 AWG	.285	7.24	Duobond II* + 95%	.403	10.24	50	82%	24.8	81.4	1	.4	1.3				
			1000	304.8	114.0	51.7	(solid)													10	.5	1.7	
							.103"														50	1.0	3.3
							BC														100	1.4	4.6
							1.8Ω/M'														200	1.8	6.0
							3.9Ω/km														400	2.6	8.5

700	3.6	11.8
900	4.1	13.5
1000	4.4	14.4
4000	9.9	32.5

Suitable for Outdoor and Aerial applications.

RG-8/U Type • 10 AWG Solid .108" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket

Low Loss 125°C 	7733A	NEC: CMP CEC: CMP FT6	500	152.4	53.5	24.3	10 AWG	.280	7.11	Duofoil + 90%	.355	9.01	50	84%	24.2	79.4	1	.1	.3				
			1000	304.8	105.0	47.7	(solid)													10	.4	1.3	
							.108"														50	1.1	3.6
							BC														100	1.5	4.9
							.9Ω/M'														200	2.1	6.9
							3.0Ω/km														400	3.2	10.5

700	4.5	14.8
900	5.7	18.7
1000	5.9	19.4
4000	14.1	46.3

Suitable for Outdoor and Aerial applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

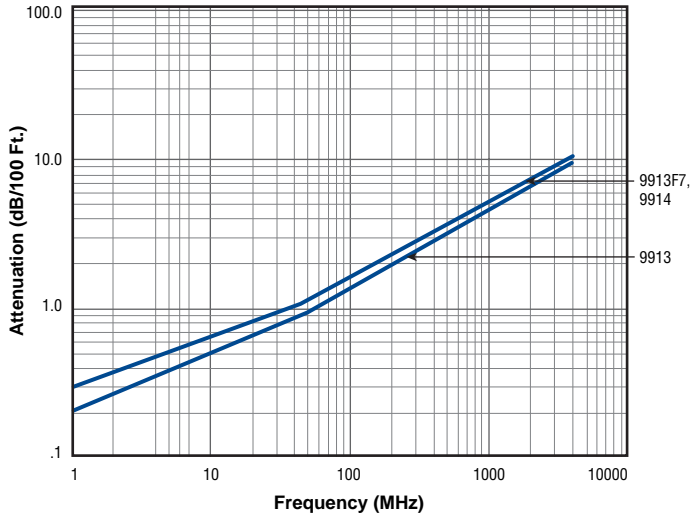
*Duobond II = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage).

†Spools are one piece, but length may vary ±10% from length shown.

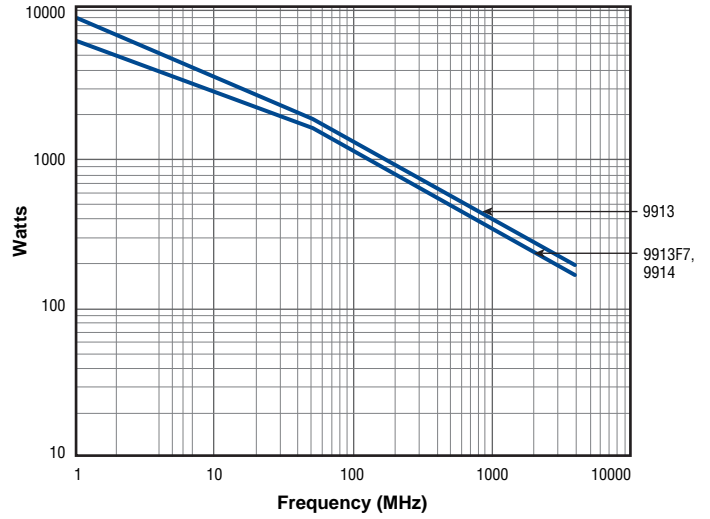
50 Ohm Transmission Cable

Electrical Characteristics of 9913, 9913F7 and 9914

Attenuation



Power Rating



MIL-C-17G QPL Cable

50 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		
30 AWG Stranded (7x38) .012" Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (96% Coverage)																					
TFE Teflon® Insulation • White FEP Jacket																					
200°C	83265	—	100†	30.5	.8	.4	30 AWG	.033	.84	SPC Braid	.071	1.80	50	69.5%	29.0	95.1	1	2.6	8.5		
VW-1			500†	152.4	4.0	1.6	(7x38)			96% Shield								10	5.6	18.4	
			1000†	304.8	6.0	3.2	.012"			Coverage									50	10.5	34.5
								SPCCS			14.6Ω/M'								100	14.0	45.9
									244.0Ω/M'									200	19.0	62.3	
									801.0Ω/km									400	28.0	91.9	
																		700	37.0	121.4	
																		900	42.5	139.4	
																		1000	46.0	150.9	

M17/169-00001 (RG-178B/U). Non-SWR swept version of RG-178.

26 AWG Stranded (7x34) .020" Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (95% Coverage)

TFE Teflon Insulation • White FEP Jacket																					
200°C	83284	—	100†	30.5	1.2	.5	26 AWG	.058	1.47	SPC Braid	.098	2.49	50	69.5%	29.0	95.1	1	1.2	3.9		
VW-1			500†	152.4	5.5	2.7	(7x34)			95% Shield								10	2.7	8.9	
			1000†	304.8	11.0	5.0	.020"			Coverage									50	5.6	18.4
								SPCCS			6.5Ω/M'								100	8.3	27.2
									84.1Ω/M'									200	12.0	39.4	
									275.9Ω/km									400	17.5	57.4	
																		700	23.7	77.8	
																		900	27.3	89.6	
																		1000	29.0	95.1	

M17/172-00001 (RG-316/U). Non-SWR swept version of RG-316.

TFE Teflon Insulation • Brown FEP Jacket																					
200°C	84316	—	100†	30.5	1.2	.5	26 AWG	.058	1.47	SPC Braid	.098	2.49	50	69.5%	29.0	95.1	1	1.2	3.9		
VW-1			500†	152.4	5.5	2.5	(7x34)			95% Shield								10	2.7	8.9	
			1000†	304.8	11.0	5.0	.020"			Coverage									50	5.6	18.4
								SPCCS			6.5Ω/M'								100	8.3	27.2
									84.1Ω/M'									200	12.0	39.4	
									275.9Ω/km									400	17.5	57.4	
																		700	23.7	77.8	
																		900	27.3	89.6	
																		1000	29.0	95.1	

M17/113-RG316

22 AWG Stranded (27x36) .030" Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Non-contaminating PVC Jacket																				
UL AWM	9252	NEC:	1000	304.8	18.0	8.2	22 AWG	.096	2.44	TC Braid	.160	4.06	50	66%	30.8	101.0	1	.4	1.3	
Style 1354		CMX					(27x36)			Shield								10	1.7	5.6
(30V 80°C)		CEC:					.030"			95% Shield								50	4.5	14.8
VW-1		CMX					TC			Coverage								100	7.0	23.0
									17.1Ω/M'									200	11.0	36.1
									56.1Ω/km									400	16.5	54.1
																		700	23.5	77.1
																		900	27.3	89.6
																		1000	29.0	95.1

M17/157-00001 (RG-122/U). Non-SWR swept version of RG-122.

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 one piece, minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.

BELDENFor more information, contact Belden Technical Support: **1-800-BELDEN-1** • www.belden.com**Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr**

MIL-C-17G QPL Cable

50 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

20 AWG Stranded (19x33) .035" Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Non-contaminating PVC Jacket

85°C	9203	—	500	152.4	12.5	5.7	20 AWG (19x33) .035" TC 10.8Ω/M' 35.4Ω/km	.116	2.95	TC Braid 95% Shield Coverage 4.1Ω/M' 13.5Ω/km	.195	4.95	50	66%	30.8	101.0	1	.4	1.3
			1000	304.8	25.0	12.3											10	1.4	4.6
																50	3.3	10.8	
																100	4.9	16.1	
																200	7.3	24.0	
																400	11.5	37.7	
																700	17.0	55.8	
																900	20.0	65.6	
																1000	21.5	70.5	

M17/28-RG58

85°C	8262	—	U-500	U-152.4	13.5	6.1	20 AWG (19x33) .035" TC 10.8Ω/M' 35.4Ω/km	.115	2.92	TC Braid 95% Shield Coverage 4.1Ω/M' 13.5Ω/km	.195	4.95	50	66%	30.8	101.0	1	.4	1.3
			500	152.4	12.5	5.7											10	1.4	4.6
			U-1000	U-304.8	26.0	11.8										50	3.3	10.8	
			1000	304.8	25.0	11.3										100	4.9	16.1	
																200	7.3	24.0	
																400	11.5	37.7	
																700	17.0	55.8	
																900	20.0	65.6	
																1000	21.5	70.5	

M17/155-00001 (RG-58C/U). Non-SWR swept version of RG-58.

19 AWG Solid .034" Silver-coated Copper Conductor • Double Silver-coated Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Non-contaminating PVC Jacket

UL AWM Style 1354 (30V 60°C)	9273	NEC:	100	30.5	4.7	2.1	19 AWG (solid) .034" SCC 8.8Ω/M' 28.9Ω/km	.117	2.97	(2) SCC Braids 95% Shield Coverage 2.5Ω/M' 8.2Ω/km	.212	5.39	50	66%	30.8	101.0	1	.4	1.3
		CMX	U-500	U-152.4	20.0	9.1											10	1.2	3.9
		CEC:	500	152.4	18.5	8.4										50	2.8	9.2	
		CMX	U-1000	U-304.8	39.0	17.7										100	4.1	13.5	
			1000	304.8	37.0	16.8										200	6.0	19.7	
																400	8.8	28.9	
																700	12.0	39.4	
																900	13.8	45.3	
																1000	14.5	47.6	

M17/167-00001 (RG-223/U). Non-SWR swept version of RG-223.

18 AWG Solid .037" Silver-coated Copper-covered Steel Conductor • Double Silver-coated Copper Braid Shield (96% Coverage)

Plenum • TFE Teflon® Insulation • Tinted Brown FEP Jacket

200°C VW-1	84142	NEC:	100	30.5	5.0	2.3	18 AWG (solid) .037" SCCS 19.3Ω/M' 63.3Ω/km	.116	2.95	(2) SCC Braids 96% Shield Coverage 2.3Ω/M' 7.5Ω/km	.195	4.95	50	70%	29.0	95.1	10	1.1	3.6
		CMP	500†	152.4	22.5	10.2											50	2.6	8.5
		CEC:	1000†	304.8	46.0	20.9										100	3.8	12.5	
																200	5.4	17.7	
																400	7.9	25.9	
																700	10.7	35.1	
																900	12.3	40.4	
																1000	13.1	43.0	
																2000	19.3	63.3	

M17/60-RG142

200°C VW-1	83242	NEC:	100†	30.5	5.3	2.4	18 AWG (solid) .037" SCCS 19.3Ω/M' 63.3Ω/km	.116	2.95	(2) SCC Braids 96% Shield Coverage 2.3Ω/M' 7.5Ω/km	.195	4.95	50	70%	29.0	95.1	10	1.1	3.6
		CMP	500†	152.4	22.5	10.2											50	2.6	8.5
		CEC:	1000†	304.8	46.0	20.9										100	3.8	12.5	
																200	5.4	17.7	
																400	7.9	25.9	
																700	10.7	35.1	
																900	12.3	40.4	
																1000	13.1	43.0	
																2000	19.3	63.3	

M17/158-00001 (RG-142B/U). Non-SWR swept version of RG-142.

18 AWG Solid .037" Silver-coated Copper-covered Steel Conductor • Silver-coated Copper Braid Shield (95% Coverage)

Plenum • TFE Teflon Insulation • Tinted Brown FEP Jacket

200°C VW-1	84303	NEC:	500†	152.4	16.5	7.5	18 AWG (solid) .037" SCCS 16.3Ω/M' 53.5Ω/km	.116	2.95	SCC Braid Shield 95% Shield Coverage 4.3Ω/M' 14.1Ω/km	.170	4.31	50	70%	29.0	95.1	10	1.1	3.6
		CL2P	1000†	304.8	32.0	14.5											50	2.6	8.5
																100	3.8	12.5	
																200	5.4	17.7	
																400	7.9	25.9	
																700	10.7	35.1	
																900	12.3	40.4	
																1000	13.1	43.0	
																2000	19.3	63.3	

M17/111-RG303

DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SCC = Silver-coated Copper • SCCS = Silver-coated 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 one piece, minimum length of any 1 piece is 25 feet.

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: **1-800-BELDEN-1** • www.belden.com


Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

MIL-C-17G QPL Cable

50 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

15.5 AWG Solid .056" Silver-plated Copper Conductor • Double Silver-plated Copper Braid Shield (95% Coverage)**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

85°C	9861	—	1000	304.8	91.0	41.4	15.5 AWG (solid)	.185	4.70	(2) SPC Braids	.332	8.43	50	66%	30.8	101.0	1	.3	.9
							.056"			95% Shield Coverage							10	.8	2.7
							SPC										50	1.9	6.2
							3.3Ω/M'										100	2.7	8.9
							10.8Ω/km										200	4.1	13.5
																	400	5.9	19.4
																	700	8.0	26.2
																	900	9.1	29.9
																	1000	9.8	32.2


M17/162-00001 (RG-212/U). Non-SWR swept version of RG-212.

13 AWG Stranded (7x21) .089" Bare Copper Conductor • Bare Copper Braid Shield (96% Coverage)**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

UL AWM Style 1354 (30V 60°C)	8267	NEC: CMX CEC: CMX	500 1000	152.4 304.8	59.5 117.0	27.0 53.1	13 AWG (7x21)	.285	7.24	BC Braid	.405	10.29	50	66%	30.8	101.0	1	.2	.6
							.089"			96% Shield Coverage							10	.6	1.8
							BC										50	1.3	4.3
							1.7Ω/M'										100	1.9	6.2
							5.6Ω/km										200	2.7	8.9
																	400	4.1	13.5
																	700	6.5	21.3
																	900	7.6	24.9
																	1000	8.0	26.2
																	4000	21.5	70.5

M17/163-00001 (RG-213/U). Non-SWR swept version of RG-213.

13 AWG Stranded (7x21) .089" Silver-plated Copper Conductor • Double Silver-plated Copper Braid Shield (97% Coverage)**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

UL AWM Style 1354 (30V 60°C)	8268	NEC: CMX CEC: CMX	500 1000	152.4 304.8	70.5 140.0	32.0 63.5	13 AWG (7x21)	.285	7.24	(2) SPC Braids	.425	10.80	50	66%	30.8	101.0	1	.2	.6
							.089"			97% Shield Coverage							10	.6	1.8
							SPC										50	1.3	4.3
							1.7Ω/M'										100	1.9	6.2
							5.6Ω/km										200	2.7	8.9
																	400	4.1	13.5
																	700	6.5	21.3
																	900	7.6	24.9
																	1000	8.0	26.2
																	4000	20.0	65.6

M17/164-00001 (RG-214/U). Non-SWR swept version of RG-214.

BC = Bare Copper • DCR = DC Resistance • SPC = Silver-plated Copper

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