

Wireless Coax

Low Loss 50 Ohm Transmission



De- scription	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric)		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ()	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/ 100 m
RG174 • 25 AWG • Solid 0.46 mm Bare Copper • Beldfoil® • 90% Tinned Copper Braid																			
Polyethylene Insulation • Black PVC Jacket																			
80°C	7805		† 100	31	1.8	0.8	0.455 mm	0.061	1.55	Beldfoil®	0.110	2.79	50	66%	31.2	102.4	30	3.8	12.4
RF 100A			500	152	5.5	2.5	25 AWG			+ 90% TC							50	4.9	16.1
			1000	305	9.9	4.5	Solid BC			Braid							150	8.6	28.2
							40.4 /km*			29.9 /km***							220	10.4	34.2
							10.5 /km**			2.15 mm							450	15.2	49.9
																	900	22.0	72.3
																	1500	28.8	94.3
																	1800	31.7	104.0
																	2000	33.4	109.7
																	2500	37.9	124.2
																	3000	42.0	137.8
																	4500	52.3	171.5
																	5800	60.9	199.8
																	6000	62.0	203.3
100% Sweep tested. 6 GHz max. VSWR 1.25:1																			
Mates with standard RG-174 connectors. Suitable for aerial applications when supported by a messenger wire.																			

RG174 • 24 AWG • Solid 0.5 mm Bare Copper • Beldfoil® • 93% Tinned Copper Braid

Foam HDPE Insulation • Grey PVC Jacket																			
80°C	7805R	NEC:	† 100	31	1.8	0.8	0.5 mm	0.060	1.52	Beldfoil®	0.110	2.79	50	73.5%	26.2	86.0	30	3.5	11.5
RF 100LL		CMR	500	152	5.5	2.5	24 AWG			+ 93% TC							50	4.6	15.0
		CEC:	1000	305	9.9	4.5	Solid BC			Braid								150	8.0
		CMG FT4					124.7 /km*			30.5 /km***							220	9.6	31.6
							94.2 /km**			2.12 mm							450	14.1	46.1
																	900	20.2	66.4
																	1500	26.6	87.3
																	1800	29.5	96.7
																	2000	31.2	102.3
																	2500	35.5	116.3
																	3000	39.4	129.2
																	4500	50.1	164.2
																	5800	59.0	193.6
																	6000	60.6	198.7
100% Sweep tested. 6 GHz max. VSWR 1.25:1																			
Mates with standard RG-174 connectors.																			

RG-58 Type • 19 AWG • Solid 0.9 mm Bare Copper • Duofoil® • 90% Tinned Copper Braid

Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																				
80°C	7806A		500	152	14.6	6.6	0.9 mm	0.110	2.79	Duofoil®	0.195	4.95	50	77%	24.3	79.7	30	2.0	6.6	
RF 195			1000	305	22.9	10.4	19 AWG			+ 90% TC								50	2.5	8.2
							Solid BC			Braid								150	4.1	13.3
							38.7 /km*			13.8 /km***							220	4.9	16.1	
							24.9 /km**			3.39 mm							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	
																	3000	20.5	67.3	
																	4500	26.5	86.8	
																	5800	31.2	102.4	
																	6000	32.0	105.0	
100% Sweep tested. 6 GHz max. VSWR 1.25:1																				
Mates with standard RG-58 connectors. Suitable for outdoor and direct burial applications.																				
Available in PVC (7806R)																				

RG-58 Type • 17 AWG • Solid 1.15 mm Bare Copper • Duofoil® • 95% Tinned Copper Braid

Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																				
80°C	7807A		500	152	15.0	6.8	1.15 mm	0.116	2.95	Duofoil®	0.195	4.95	50	85%	23.5	77.1	30	1.6	5.4	
RF 200			1000	305	24.0	10.9	17 AWG			+ 95% TC								50	2.1	7.0
							Solid BC			Braid								150	3.7	12.1
							24.7 /km*			13.8 /km***							220	4.5	14.6	
							10.9 /km**			3.55 mm							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	
																	3000	17.5	57.3	
																	4500	22.0	72.3	
																	5800	25.2	82.7	
																	6000	25.9	85.1	
100% Sweep tested. 6 GHz max. VSWR 1.25:1																				
Mates with standard land mobile radio type connectors. Suitable for outdoor and direct burial applications.																				
Available in PVC (7807R)																				

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper

† May contain more than one piece. Min. length of any one piece is 7.6 m (25 ft.).

Duofoil® see technical information page 23.13.

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			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m
RG-8X Type • 15 AWG • Solid 1.45 mm Bare Copper • Duobond® II • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	7808A		500	152	18.0	8.2	1.45 mm	0.150	3.81	Duobond® II + 95% TC Braid	0.240	6.10	50	86%	23.0	75.5	30	1.3	4.1
RF 240		1000	305	39.0	17.7	15 AWG Solid BC			9.2 /km***								4.41 mm	50	1.6
							19.7 /km*										150	2.8	9.3
							10.5 /km**										220	3.4	11.1
																	450	4.9	16.1
																	900	7.0	22.9
																	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
Available:																			
7808R - PVC																			
7808WB - Flooded Water-resistant Polyethylene																			
100% Sweep tested. 6 GHz max. VSWR 1.25:1																			
Mates with standard RG-8X connectors. Suitable for outdoor and direct burial applications.																			

Intermediate Type • 13 AWG • Solid 1.83 mm Bare Copper • Duobond® II • 95% Tinned Copper Braid

Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	7809A		500	152	30.6	13.9	1.83 mm	0.190	4.83	Duobond® II + 95% TC Braid	0.300	7.62	50	86%	23.0	75.5	30	1.0	3.4
RF 300		1000	305	58.0	26.3	13 AWG Solid BC			7.8 /km***								5.55 mm	50	1.3
							14.7 /km*										150	2.2	7.3
							6.9 /km**										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
Available:																			
7809R - PVC																			
7809WB - Flooded Water-resistant Polyethylene																			
100% Sweep tested. 6 GHz max. VSWR 1.25:1																			
Mates with land mobile radio type connectors. Suitable for outdoor and direct burial applications.																			

RG-8 Type • 10 AWG • Solid 2.6 mm Bare Copper-Covered Aluminum • Duobond® II • 95% Tinned Copper Braid

Gas-Injected Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	7810A		500	152	42.5	19.3	2.6 mm	0.285	7.24	Duobond® II + 95% TC Braid	0.403	10.23	50	86%	23.0	75.5	30	0.6	2.1
RF 400		1000	305	86.0	39.0	10 AWG Solid BCCA			9.2 /km***								8.11 mm	50	0.9
							13.6 /km*										150	1.5	4.9
							4.4 /km**										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	7.4	24.4
																	4500	9.5	31.1
																	5800	11.1	36.4
																	6000	11.4	37.3
Available:																			
7810R - PVC																			
7810WB - Flooded Water-resistant Polyethylene																			
100% Sweep tested. 6 GHz max. VSWR 1.25:1																			
Mates with 9913 and land mobile radio type connectors. Suitable for outdoor and direct burial applications.																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance •
BC = Bare Copper • BCCA = Bare Copper-Covered Aluminum • TC = Tinned Copper

Duobond® II see technical information page 23.13.

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			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m
RF 500 Type • 7 AWG • Solid 3.6 mm Bare Copper-Covered Aluminum • Duobond® II • 90% Tinned Copper Braid																			
Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	7976A		500	152	56.0	25.4	3.6 mm	0.370	9.40	Duobond® II + 90% TC Braid	0.500	12.70	50	84%	25.1	82.4	30	0.5	1.8
			1000	305	108.0	49.0	7 AWG Solid BCCA	8.0 /km*	5.3 /km***								50	0.7	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
																	4500	8.0	26.2
																	5800	9.3	30.5
																	6000	9.5	31.2
Available: 7976R - PVC 7976WB - Flooded Water-resistant Polyethylene																			
100% Sweep tested. Suitable for outdoor applications and aerial applications when supported by a messenger wire.																			

RF 600 Type • 5.5 AWG • Solid 4.47 mm Bare Copper-Covered Aluminum • Duobond® II • 85% Tinned Copper Braid																			
Foam HDPE Insulation • Black Polyethylene Jacket																			
80°C	7977A		500	152	73.6	33.4	4.47 mm	0.455	11.56	Duobond® II + 85% TC Braid	0.590	14.99	50	85%	24.6	80.7	30	0.5	1.5
			1000	305	145.1	65.8	5.5 AWG Solid BCCA	7.6 /km*	5.9 /km***								50	0.6	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	5.5	18.2
																	4500	6.4	21.1
																	5800	7.6	24.8
																	6000	7.8	25.4
Available: 7977R - PVC 7977WB - Flooded Water-resistant Polyethylene																			
100% Sweep tested. 6 GHz. Suitable for outdoor applications and aerial applications when supported by a messenger wire.																			

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Duobond® II see technical information page 23.13.