

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
							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

Available in PVC (7806R)

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

Mates with standard RG-58 connectors. Suitable for outdoor and direct burial applications.

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
							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

Available in PVC (7807R)

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.

* 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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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
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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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
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.																			

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

Duobond® II see technical information page 23.13.

Wireless Coax

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	
H1000C • Solid 2.6 mm Bare Copper • Copper-Foil • 85% Bare Copper Braid																				
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																				
70°C	H1000C3		1640	500	97.0	44.0	2.62 mm Solid BC 12.3 /km* 3.5 /km**	0.281	7.15	Cu-foil + 85% BC Braid 8.8 /km*** 8.0 mm	0.406	10.30	50	83%	24.4	80.0	5	0.2	0.8	
																	50	0.9	2.8	
																	100	1.2	4.0	
																	230	1.9	6.1	
																	400	2.6	8.4	
																	800	3.8	12.3	
																	862	4.2	13.8	
																	1000	4.3	14.0	
																	1350	5.1	16.7	
																	1750	5.9	19.5	
																	2150	6.9	22.5	
																	2400	7.2	23.6	
			Return loss at				5-470 MHz: 23 dB				Screening attenuation at 30-1000 MHz:				100 dB					
			470-1000 MHz: 20 dB																	
			1000-2000 MHz: 18 dB																	
			2000-3000 MHz: 16 dB																	
Gas-Injected Polyethylene Insulation • Black PVC Jacket																				
70°C	H1000C0		C-328	C-100	19.6	8.9	2.62 mm Solid BC 12.3 /km* 3.5 /km**	0.281	7.15	Cu-foil + 50% BC Braid 8.8 /km*** 7.8 mm	0.406	10.30	50	83%	24.4	80.0	see above			
			1640	500	98.1	44.5														
			6560	2000	392.4	178.0														
			Return loss at				5-470 MHz: 23 dB				Screening attenuation at 30-1000 MHz:				100 dB					
			470-1000 MHz: 20 dB																	
			1000-2000 MHz: 18 dB																	
			2000-3000 MHz: 16 dB																	
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																				
70°C	H1000C1		C-328	C-100	15.0	6.8	2.62 mm Solid BC 12.3 /km* 3.5 /km**	0.281	7.15	Cu-foil + 50% BC Braid 8.8 /km*** 7.8 mm	0.406	10.30	50	83%	24.4	80.0	see above			
			1640	500	75.0	34.0														
			3280	1000	149.9	68.0														
			Return loss at				5-470 MHz: 23 dB				Screening attenuation at 30-1000 MHz:				100 dB					
			470-1000 MHz: 20 dB																	
			1000-2000 MHz: 18 dB																	
			2000-3000 MHz: 16 dB																	
H1001C • Stranded (19x0.54) 2.7 mm Bare Copper • Copper-Foil • 50% Bare Copper Braid																				
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																				
70°C	H1001C1		1640	500	117.9	53.5	2.7 mm (19x0.54) BC 16.5 /km* 4.5 /km**	0.283	7.20	Cu-foil + 50% BC Braid 12.0 /km*** 7.15 mm	0.406	10.30	50	83%	24.4	80.0	5	0.3	1.0	
																	50	1.0	3.3	
																	100	1.4	4.7	
																	230	2.2	7.2	
																	400	3.0	9.8	
																	800	4.4	14.4	
																	862	4.5	14.9	
																	1000	5.0	16.3	
																	1350	5.9	19.3	
																	1750	6.9	22.5	
																	2150	7.7	25.4	
																	2400	8.3	27.1	
			Return loss at				5-470 MHz: 23 dB				Screening attenuation at 30-1000 MHz:				100 dB					
			470-1000 MHz: 20 dB																	
			1000-2000 MHz: 18 dB																	
			2000-3000 MHz: 16 dB																	
H500C • Solid 2.5 mm Bare Copper • Copper-Foil • 50% Bare Copper Braid																				
Gas-Injected Polyethylene Insulation • Black Polyethylene Jacket																				
70°C	H500C00		C-328	C-100	23.6	10.7	2.5 mm Solid BC 15.3 /km* 3.8 /km**	0.276	7.00	Cu-foil + 50% BC Braid 11.5 /km*** 7.45 mm	0.386	9.80	50	81%	25.0	82.0	5	0.3	0.9	
																	50	0.9	2.9	
																	100	1.3	4.1	
																	230	2.0	6.5	
																	400	2.7	8.7	
																	800	3.9	12.9	
																	862	4.1	13.4	
																	1000	4.5	14.6	
																	1350	5.3	17.4	
																	1750	6.2	20.3	
																	2150	7.0	23.0	
																	2400	7.5	24.6	
			Return loss at				5-470 MHz: 23 dB				Screening attenuation at 30-1000 MHz:				95 dB					
			470-1000 MHz: 20 dB																	
			1000-2000 MHz: 18 dB																	
			2000-3000 MHz: 16 dB																	

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

Wireless Coax


50 Ohm Microwave Cables



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
M17/151 Type • 29 AWG • Solid 0.28 mm Silver-Plated Copper-Covered Steel • 100 % Copper-Tin Composite Braid																			
TFE Teflon® Insulation • Unjacketed																			
UL AWM	1674A*		50	15	0.2	0.1	0.279 mm	0.033	0.85	100% CT	0.047	1.19	50	69.5%	29.5	96.8	500	25.0	82.0
Style 10245			100	31	0.4	0.2	29 AWG			Composite							1000	36.7	120.3
(30 V 105°C)			500	152	1.9	0.9	Solid SPCCS			Braid							2000	53.8	176.5
			1000	305	3.7	1.7	698.6 /km*			26.2 /km***							3000	67.3	220.8
							672.4 /km**			1.19 mm							5000	89.3	292.8
																	7000	107.5	352.6
																	10000	130.9	429.5
																	15000	163.8	537.4
																	18000	181.2	594.3
																	20000	192.1	630.0

Available with Silver-Plated Copper CDR (1674B)

RG-405/U Type • 24 AWG • Solid 0.5 mm Silver-Plated Copper-Covered Steel • 100 % Copper-Tin Composite Braid

TFE Teflon® Insulation • Unjacketed																			
UL AWM	1671A*		50	15	2.0	0.9	0.5 mm	0.062	1.57	100% CT	0.085	2.16	50	69.5%	29.5	96.8	500	15.0	49.2
Style 10245			100	31	2.4	1.1	24 AWG			Composite							1000	22.2	72.8
(30 V 105°C)			† 500	152	7.5	3.4	Solid SPCCS			Braid							2000	32.8	107.6
			† 1000	305	14.1	6.4	244.1 /km*			33.5 /km***							3000	41.2	135.2
							210.6 /km**			2.16 mm							5000	54.9	180.0
																	7000	66.4	217.9
																	10000	81.2	266.4
																	15000	102.0	334.7
																	18000	113.0	370.8
																	20000	120.0	393.7


Available:

1671J - with PVC jacket (Black or Clear)

1671B - with Silver-Plated Copper, unjacketed

Suitable for outdoor applications.

RG-402/U Type • 19 AWG • Solid 0.9 mm Silver-Plated Copper-Covered Steel • 100 % Copper-Tin Composite Braid


TFE Teflon® Insulation • Unjacketed																			
UL AWM	1673A*		50	15	3.3	1.5	0.9 mm	0.116	2.95	100% CT	0.138	3.51	50	69.5%	29.5	96.8	500	8.0	26.2
Style 10245			100	31	4.0	1.8	19 AWG			Composite							1000	12.0	39.4
(30 V 105°C)			† 250	76	7.9	3.6	Solid SPCCS			Braid							2000	18.1	59.4
			500	152	15.0	6.8	82.1 /km*			14.8 /km***							3000	22.9	75.1
							67.3 /km**			4.52 mm							5000	31.0	101.7
																	7000	37.8	124.0
																	10000	46.6	152.9
																	15000	59.1	193.9
																	18000	65.8	215.9
																	20000	70.0	229.7

Available:

1673J - with PVC jacket (Black or Clear)

1673B - with Silver-Plated Copper, unjacketed

RG-401/U Type • 14 AWG • Solid 1.65 mm Silver-Plated Copper • 100 % Copper-Tin Composite Braid

TFE Teflon® Insulation • Unjacketed																			
UL AWM	1675A*		† 50	15	4.0	1.8	1.65 mm	0.210	5.33	100% CT	0.246	6.25	50	69.5%	29.6	97.1	500	3.8	12.5
Style 10245			†† 100	31	8.1	3.7	14 AWG			Composite							1000	4.4	14.4
(30 V 105°C)			†† 250	76	20.3	9.2	Solid SPC			Braid							2000	6.8	22.3
			†† 500	152	40.6	18.4	34.4 /km*			26.2 /km***							3000	10.4	34.1
							8.2 /km**			6.25 mm							5000	13.4	44.0
																	7000	18.5	60.7
																	10000	22.8	74.8
																	15000	28.4	93.2
																	18000	36.6	120.1
																	20000	41.0	134.5

Available with Clear PVC jacket (1675J)

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • CT = Copper-Tin • SPC = Silver-Plated Copper •

SPCCS = Silver-Plated Copper-Covered Steel

Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

† 76 m put-up: Exact 3 pieces (maximum), 15 m (50 ft.) minimum length.

152 m put-up: Exact 5 pieces (maximum), 15 m (50 ft.) minimum length.

305 m put-up: Exact 8 pieces (maximum), 15 m (50 ft.) minimum length.

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

Teflon® is a DuPont trademark.