



Description:

10 AWG solid .108" bare copper conductor, semi-solid polyethylene insulation, Duobond II® + tinned copper braid shield (90% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	10	Solid	BC - Bare Copper	.108

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Semi-Solid PE - Semi-Solid Polyethylene	.286

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded DuoFoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.405 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 97 lbs/1000 ft.

Max. Recommended Pulling Tension: 300 lbs.

Min. Bend Radius (Install)/Minor Axis: 6 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 8/U

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 89913

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/ft)

.059

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

24.6

Nominal Velocity of Propagation:

VP (%)

84

Nominal Delay:

Delay (ns/ft)

1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

.9

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.8

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

5.000 0.400

10.000 0.500

50.000 1.000

100.000 1.400

200.000 1.800

400.000 2.600

700.000 3.600

900.000 4.100

1000.000 4.400

Max. Power Rating:

Freq. (MHz) Rating (W)

5.000 4021.000

10.000 3217.000

50.000 1609.000

100.000 1149.000

200.000 894.000

400.000 619.000

700.000 447.000

900.000 393.000

1000.000	366.000
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Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Recommend use of 7810R, 7810A, 9913F7, or 9914 for applications above 1 GHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9913 010100	100 FT	14.200 LB	BLACK	C	RG-8/U TYPE COAX
9913 0101000	1,000 FT	116.000 LB	BLACK	C	RG-8/U TYPE COAX
9913 010250	250 FT	31.750 LB	BLACK	C	RG-8/U TYPE COAX
9913 010500	500 FT	57.000 LB	BLACK	C	RG-8/U TYPE COAX

Notes:


C = CRATE REEL PUT-UP.

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

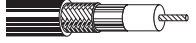
RG-8/U Type • 10 AWG Solid .108" Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (90% Coverage)

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
																		700	3.6	11.8			
																		900	4.1	13.5			
																		1000	4.4	14.4			
																		4000	9.5	31.1			

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 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

*Duobond II = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage).
†Spools are one piece, but length may vary ±10% from length shown.