

9914 Coax - RG-8/U Type

For more Information
please call

1-800-Belden1

**General Description:**

10 AWG solid .103" bare copper conductor, gas-injected foam HDPE insulation, Duobond II® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	10	Solid	BC - Bare Copper	.103

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.285

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	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.403 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	105 lbs/1000 ft.
Max. Recommended Pulling Tension:	247 lbs.
Min. Bend Radius/Minor Axis:	4 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 1354 (30 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	8/U
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Flame Test

UL Flame Test:	UL1685 FT4 Loading
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CSA Flame Test:	FT4
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Suitability - Aerial:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

Nom. Inductance:

Inductance (μH/ft)

.065

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

24.8

Nominal Velocity of Propagation:

VP (%)

82

Nominal Delay:

Delay (ns/ft)

1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.1

Maximum VSWR:

Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
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5.000	2250.000	1.43:1
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Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
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5	.4
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10	.5
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50	1.0
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100	1.4
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200	1.8
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400	2.6
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700	3.6
900	4.1
1000	4.4
1500	5.5
1800	6.1
2000	6.5
2500	7.5
3000	8.3
4000	9.9

Max. Power Rating:

Freq. (MHz)	Rating (W)
5	4021
10	3217
50	1609
100	1149
200	894
400	619
700	447
900	393
1000	366
1500	293
1800	264
2000	248
2500	215
3000	194
4000	163

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1354)

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Low Loss

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9914 0101000	1,000 FT	114.000 LB	BLACK	C	RG-8/U TYPE COAX
9914 010500	500 FT	56.000 LB	BLACK	C	RG-8/U TYPE COAX

Notes:

C = CRATE REEL PUT-UP.

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