

## 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
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

### Flame Test

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

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

## 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
5.000	2250.000	1.43:1

#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	.4
10	.5
50	1.0
100	1.4
200	1.8
400	2.6

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.

Revision Number: 2    Revision Date: 09-19-2012

© 2013 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not

## 9914 Coax - RG-8/U Type

to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.  
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.