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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
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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
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:**

<b>Voltage</b>
30 V RMS (UL AWM Style 1354)

**Max. Operating Voltage - Non-UL:**

<b>Voltage</b>
300 V RMS

**Notes (Overall)**

**Notes:** Low Loss

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82-202-1006	1 EA	0.032 LB	CHROME, BRIGHT	Q	Amphenol N-Connector for 9914
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.  
Q = STANDARD PACKAGES CANNOT BE BROKEN.

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