

For more Information
please call

1-800-Belden1



General 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. (mm)
1	10	Solid	BC - Bare Copper	2.7432

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Semi-Solid PE - Semi-Solid Polyethylene	7.2644

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 Cable

Overall Nominal Diameter: 10.287 mm

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 159.237 Kg/Km

Max. Recommended Pulling Tension: 1334.460 N

Min. Bend Radius/Minor Axis: 101.600 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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

MIL Order #39 (China RoHS): Yes

RG Type: 8/U

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 89913

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.193579

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
80.7126

Nominal Velocity of Propagation:

VP (%)
84

Nominal Delay:

Delay (ns/m)
3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
2.9529

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
5.9058

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5.000	1.312
10.000	1.641
50.000	3.281
100.000	4.593
200.000	5.906
400.000	8.531
700.000	11.812
900.000	13.452
1000.000	14.436

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

Max. Operating Voltage - Non-UL:

Voltage
600 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
9913 0105000	5,000 FT	625.000 LB	BLACK	C	RG-8/U TYPE COAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 07-29-2013

© 2017 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 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 2014/35/EU).