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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
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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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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	89913
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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)
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5.000	1.312
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10.000	1.641
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50.000	3.281
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100.000	4.593
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200.000	5.906
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400.000	8.531
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700.000	11.812
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900.000	13.452
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1000.000	14.436
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Max. Power Rating:

Freq. (MHz)	Rating (W)
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5.000	4021.000
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10.000	3217.000
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50.000	1609.000
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100.000	1149.000
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200.000	894.000
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400.000	619.000
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700.000	447.000
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900.000	393.000
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1000.000	366.000
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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	30 MT	6.441 KG	BLACK	C	RG-8/U TYPE COAX
9913 0101000	305 MT	52.617 KG	BLACK	C	RG-8/U TYPE COAX
9913 010250	76 MT	14.402 KG	BLACK	C	RG-8/U TYPE COAX
9913 010500	152 MT	25.855 KG	BLACK	C	RG-8/U TYPE COAX
9913 0105000	1,524 MT	283.497 KG	BLACK	C	RG-8/U TYPE COAX

Notes:

C = CRATE REEL PUT-UP.

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