Detailed Specifications & Technical Data

BELDEN
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9913 Coax - RG-8/U Type



For more information please call
1-800-Belden1

See Put-ups and Colors

Description:

RG-8/U type, 10 AWG solid .108" bare copper conductor, semi-solid polyethylene insulation, Duobond II® + tinned copper braid shield (90% coverage), PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	8/U
AWG	10
Stranding	Solid
Conductor Diameter	.108 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Semi-Solid PE - Semi-Solid Polyethylene
Insulation Diameter	.286 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® II
Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	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	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.405 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
Non-UL Temperature Rating	75°C

9913 Coax - RG-8/U Type

Bulk Cable Weight	97 lbs/1000 ft.
Max. Recommended Pulling Tension	300 lbs.
Min. Bend Radius (Install)	6 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

SUITABILITY:

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

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	89913

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	.059 µH/ft
Nom. Capacitance Conductor to Shield	24.6 pF/ft
Nominal Velocity of Propagation	84 %
Nominal Delay	1.2 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	.9 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	1.8 Ohms/1000 ft

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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

Max. Power Rating :

9913 Coax - RG-8/U Type

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Power Rating (W)
	5			4021
	10			3217
	50			1609
	100			1149
	200			894
	400			619
	700			447
	900			393
	1000			366

Max. Operating Voltage - Non-UL	300 V RMS

NOTES:

Notes	Recommend use of 7810R, 7810A, 9913F7, or 9914 for applications above 1 GHz.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9913 010100	RG-8/U TYPE COAX	100	14.2	BLACK	C
9913 0101000	RG-8/U TYPE COAX	1000	116	BLACK	C
9913 010250	RG-8/U TYPE COAX	250	31.75	BLACK	C
9913 010500	RG-8/U TYPE COAX	500	57	BLACK	C

C = CRATE REEL PUT-UP.

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