

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

9913F7 Coax - RG-8/U Type



For more Information  
please call

1-800-Belden1



## Description:

RG-8/U type, 10 AWG stranded (7x19) .108" bare copper conductor, gas-injected foam HDPE insulation, Duobond II ® + tinned copper braid shield (95% coverage), Belflex® jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

#	Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1		10	7x19	BC - Bare Copper	.108

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 Trade Name	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

### Overall Cable

Overall Nominal Diameter: 0.405 in.

## Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 94 lbs/1000 ft.

Max. Recommended Pulling Tension: 210 lbs.

Min. Bend Radius/Minor Axis: 3 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU CE Mark: No

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
MII Order #39 (China RoHS):	Yes
RG Type:	8/U

## 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)
52

### Nom. Inductance:

Inductance (μH/ft)
.059

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
22.5

### Nominal Velocity of Propagation:

VP (%)
85

### Nominal Delay:

Delay (ns/ft)
1.2

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.1

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.8

### Maximum VSWR:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5	2250	1.43:1

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	.6
50	1.1
100	1.5
200	2.0
400	3.0
700	4.0
900	4.7
1000	5.0
2000	7.5
2250	8.0
3000	9.8
4000	12.1

### Nom. Power Rating:

Freq. (MHz)	Rating (W)
5	3217
10	2681

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50	1463
100	1073
200	805
400	575
700	424
900	366
1000	350
1500	278
1800	252
2000	237
2500	210
3000	188
4000	157

## Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Actual Impedance specification is 51.5 +/- 2 ohms.

## Misc. Information (Overall)

### Notes (Overall)

Notes: Low Loss, High Flex

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9913F7 B59100	100 FT	12.500 LB	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B591000	1,000 FT	104.000 LB	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59250	250 FT	27.750 LB	BLACK, MATTE	C	#10 FHDPE SH PVC
9913F7 B59500	500 FT	52.000 LB	BLACK, MATTE	C	#10 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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