



## 9913F7

Part Number: 9913F7

RG-8/U Type

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### Product Description

RG-8/U type, 10 AWG stranded (7x19) .108" bare copper conductor, gas-injected foam HDPE insulation, Duobond II ® & #43; tinned copper braid shield (95% coverage), Belflex® jacket.

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### Product Specifications

#### Conductor

Total Number of Conductors:	1
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### Technical Specifications

#### APAC Standard

MIL Order #39 (China RoHS):	Yes
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#### Bend Radius

Min Bend Radius/Minor Axis:	3 in
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#### CCB-Part Number

Notes:	Low Loss, High Flex
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#### CCB-Sub-Part Number

Plenum (Y/N):	No
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#### Contact Information

PHONE_NUM:	1-800-Belden1
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#### EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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## Environmental Characteristics

Operating Temp Range:	-40°C To +80°C
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## EU Directive

EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

## General Electrical Parameters

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

CA Prop 65 (CJ for Wire & Cable):	Yes
RG Type:	8/U

## Temperature Range

Non-UL Temp Rating:	80°C
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## Use

Max Recommended Pulling Tension:	210 lbs
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### Impedance:

Nominal Characteristic Impedance
52 Ohm

### Inductance:

Nominal Inductance
0.059 $\mu$ H/ft

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
1.1 Ohm/1000ft	1.8 Ohm/1000ft

### Power Rating:

Frequency [MHz]	Nominal Power Rating [W]
5 MHz	3,217 W
10 MHz	2,681 W
50 MHz	1,463 W
100 MHz	1,073 W
200 MHz	805 W
400 MHz	575 W
700 MHz	424 W
900 MHz	366 W
1,000 MHz	350 W
1,500 MHz	278 W
1,800 MHz	252 W
2,000 MHz	237 W
2,500 MHz	210 W
3,000 MHz	188 W
4,000 MHz	157 W

**Delay:**

Nominal Delay	Nominal Velocity of Propagation (VP)
1.2 ns/ft	85 %

**Voltage:**

Non-UL Voltage Rating
300V RMS

**VSWR:**

Frequency [MHz]	Max. VSWR
	1.43:1
2250 MHz	
5 MHz	

**Capacitance:**

## Nominal Capacitance Conductor to Shield

22.5 pF/ft

## High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
10 MHz	0.6 db/100ft
50 MHz	1.1 db/100ft
100 MHz	1.5 db/100ft
200 MHz	2 db/100ft
400 MHz	3 db/100ft
700 MHz	4 db/100ft
900 MHz	4.7 db/100ft
1000 MHz	5 db/100ft
2000 MHz	7.5 db/100ft
2250 MHz	8 db/100ft
3000 MHz	9.8 db/100ft
4000 MHz	

## Insulation:

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.285 in

## Outerjacket 1:

Material	Material Trade Name	Nominal Diameter
PVC Blend - Polyvinyl Chloride Blend	Belflex®	0.405 in

## Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
10	7x19	BC - Bare Copper	0.108 in	1

## Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage
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Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

## Product Variants

Part Number	Color	Put-Up Type	Length
9913F7 B591000	BLACK, MATTE	Reel	1000 ft
9913F7 B59100	BLACK, MATTE	Reel	100 ft
9913F7 B59250	BLACK, MATTE	Reel	250 ft
9913F7 B59500	BLACK, MATTE	Reel	500 ft

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