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1-800-Belden1



### General Description:

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid(s) shield (65% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BCCS - Bare Copper Covered Steel	.032

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.144

#### 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	100.000
2		Braid	AL - Aluminum	65.000

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.237 in.

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 23 lbs/1000 ft.

Max. Recommended Pulling Tension: 104 lbs.

Min. Bend Radius/Minor Axis: 2.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

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

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Series Type: Series 59

#### Flame Test

UL Flame Test: UL1685 UL Loading

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
75.000

**Nom. Inductance:**

**Inductance (µH/ft)**  
.097

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**  
16.2

**Nominal Velocity of Propagation:**

**VP (%)**  
83

**Nominal Delay:**

**Delay (ns/ft)**  
1.2

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
44.5

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
12

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.89
55	1.95
211	3.59
270	4.05
300	4.27
350	4.64
400	4.88
450	5.30
550	5.90
750	6.96
870	7.54
1000	8.09

**Max. Operating Voltage - UL:**

**Voltage**  
300 V RMS

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	1000	20

**Sweep Test**

Sweep Testing: 5 MHz - 1 GHz

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9104 Q5HU1000	1,000 FT	24.000 LB	WHITE, NEUTRAL		#20 GIFHDLDPPE SH FRPVC
9104 009U1000	1,000 FT	24.000 LB	WHITE		#20 GIFHDLDPPE SH FRPVC
9104 010U1000	1,000 FT	24.000 LB	BLACK		#20 GIFHDLDPPE SH FRPVC
9104 010I1000	1,000 FT	25.000 LB	BLACK		#20 GIFHDLDPPE SH FRPVC

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