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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, Duofoil® or Duobond® + aluminum braid shield (40% 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 FPE - Foam Polyethylene	.144

### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	40

### 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

UL Temperature Rating: 75°C

Bulk Cable Weight: 22 lbs/1000 ft.

Max. Recommended Pulling Tension: 80 lbs.

Min. Bend Radius/Minor Axis: 2.500 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: 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

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)  
17

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.75
55	1.84
211	3.36
270	3.79
300	3.99
350	4.33
400	4.66
450	4.96
550	5.48
750	6.51
870	7.00
1000	7.68

**Max. Operating Voltage - UL:**

Voltage  
300 V RMS

**Typical Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Typical SRL (dB)
		5	550	18

**Notes (Overall)**

Notes: Sweep tested 5 MHz to 550 MHz.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9275 009U1000	1,000 FT	23.000 LB	WHITE		#20 LDPE/GIFHDLDPPE SH FRPVC
9275 010U1000	1,000 FT	23.000 LB	BLACK		#20 LDPE/GIFHDLDPPE SH FRPVC
9275 010U500	500 FT	12.000 LB	BLACK		#20 LDPE/GIFHDLDPPE SH FRPVC
9275 0101000	1,000 FT	24.000 LB	BLACK		#20 LDPE/GIFHDLDPPE SH FRPVC

Revision Number: 2    Revision Date: 03-22-2013

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