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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. (mm)
1	20	Solid	BCCS - Bare Copper Covered Steel	0.8128

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	3.6576

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: 6.020 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 32.740 Kg/Km

Max. Recommended Pulling Tension: 355.856 N

Min. Bend Radius/Minor Axis: 63.500 mm

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/m)
0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.1522

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/m)
3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
146.005

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
55.777

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	2.46075
55	6.03704
211	11.0242
270	12.435
300	13.0912
350	14.2067
400	15.2895
450	16.2738
550	17.9799
750	21.3593
870	22.967
1000	25.1981

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

METRIC MEASUREMENT VERSION

9275 Coax - 75 Ohm Coax

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