Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9100 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



General Description:

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II (100% coverage) plus an aluminum braid (40% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.144

Outer Shield

Outer Shield Material:

Layer # Outer Shield Trade Name		Туре	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded 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:	80°C
Bulk Cable Weight:	21 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

CEC/C(UL) Specification: 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	NEC/(UL) Specification:	CM, CATV
EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes	CEC/C(UL) Specification:	CM
EU Directive 2000/53/EC (ELV): Yes	EU Directive 2011/65/EU (ROHS II):	Yes
	EU CE Mark:	Yes
EU Directive 2002/95/EC (RoHS): Yes	EU Directive 2000/53/EC (ELV):	Yes
	EU Directive 2002/95/EC (RoHS):	Yes

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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				
PMSHA Specification:	P-MSHA-SC-182/4				
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:



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)

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 Return Loss:

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Desc	ription	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
			5	1000	20

Notes (Overall)

Notes: Sweep tested 5 MHz to 1 GHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9100 009U1000	1,000 FT	22.000 LB	WHITE		#20 GIFHDLDPE SH FRPVC
9100 010U1000	1,000 FT	22.000 LB	BLACK		#20 GIFHDLDPE SH FRPVC
9100 010U500	500 FT	12.000 LB	BLACK		#20 GIFHDLDPE SH FRPVC
9100 0101000	1,000 FT	24.000 LB	BLACK		#20 GIFHDLDPE SH FRPVC

Revision Date: 10-16-2012 Revision Number: 1

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