Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9100 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



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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	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BCCS - Bare Copper Covered Steel	0.8128

Total Number of Conductors:

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	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: 6.020 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	31.252 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

CM, CATV
СМ
Yes
Yes
Yes
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:

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

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	2.92009
55	6.39795
211	11.7788
270	13.2881
300	14.0099
350	15.2238
400	16.0113
450	17.3893
550	19.3579
750	22.8358
870	24.7387
1000	26.5433

Max. Operating Voltage - UL:

Voltage 300 V RMS

Minimum Return Loss:

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Description	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	23.000 LB	BLACK		#20 GIFHDLDPE SH FRPVC

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

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