

9100 Coax - 75 Ohm Coax

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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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:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 59
AWG	20
Stranding	Solid
Conductor Diameter	.032 in.
Conductor Material	BCCS - Bare Copper Covered Steel

INSULATION:

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	.144 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® II
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

Outer Shield % Coverage	100 %
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.237 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
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UL Temperature Rating	80°C
Bulk Cable Weight	20 lbs/1000 ft.
Max. Recommended Pulling Tension	80 lbs.
Min. Bend Radius (Install)	2.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM, CATV
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
PMSHA Specification	P-MSHA-SC-182/4

FLAME TEST:

UL Flame Test	UL1685 UL Loading
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 +/-3 Ohms
Nom. Inductance	.097 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.2 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	44.5 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	17 Ohms/1000 ft

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	1000	20

Max. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. 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 300 V RMS

NOTES:

Notes Sweep tested 5 MHz to 1 GHz.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9100 009U1000	#20 GIFHDLDP SH FRPVC	U1000	23	WHITE	
9100 010U1000	#20 GIFHDLDP SH FRPVC	U1000	23	BLACK	
9100 010U500	#20 GIFHDLDP SH FRPVC	U500	12	BLACK	
9100 0101000	#20 GIFHDLDP SH FRPVC	1000	24	BLACK	

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