

9105SL2P Coax – Series 59

	<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 0.81mm solid bare copper covered steel conductor, gas-injected foam polyethylene insulation, aluminum-PET tape + aluminum braid shield (59% coverage), PVC jacket, with two power conductors.

PHYSICAL CHARACTERISTICS:

COAX CONDUCTOR:

Number of Coax	1
Total Number of Conductor	1
Series Type	Series 59
AWG	20
Stranding	Solid
Conductor Nominal Diameter	0.81 mm
Conductor Material	BCCS - Bare Copper Covered Steel

INSULATION:

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Nominal Diameter	3.66 mm

OUTER SHIELD:

Outer Shield Type	Tape / Braid
Outer Shield Material:	

Layer Number	Type	Material	Nom. Coverage (%)
1	Tape	Bonded Aluminum Foil – Polyester Tape	100
2	Braid	AL – Aluminum	59

POWER CABLE:

Conductor stranded Construction	7/0.37 mm
Conductor Material	Copper Clad Aluminum
Insulation Material	Polyethylene
Insulation Color	Red & Black

OVERALL OUTER JACKET:

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Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	6.0 x 4.5 x 10.8 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range (Non-UL)	- 20°C To + 75°C
Bulk Cable Weight	56 kg/km
Max. Recommended Pulling Tension	630 N
Min. Bend Radius (Install)	60 mm

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

EU CE Mark (Y/N)	N
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Dec 2007

FLAME TEST:

Flame Test	VW-1
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SUITABILITY:

Suitability-Indoor	Yes
Suitability-Outdoor	Yes
Sunlight Resistance	Yes

SWEEP TEST:

Sweep Testing	5 MHz – 1 GHz
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristics Impedance	75 +/- 3 Ohms
Nom. Velocity of Propagation	82 %
Nom. Conductor DC Resistance @ 20 Deg.C	161.4 Ohms/km (Coax cable)
Max. Conductor DC Resistance @ 20 Deg.C	40 Ohms/km (Individual Power core)
Nom. DC Loop Resistance @ 20 Deg.C	172 Ohms/km
Min. Structural Return Loss (5~1000 MHz)	20 dB

Max. Attenuation @ 20 Deg.C:

Frequency (MHz)	Max. Attenuation (dB/100m)	Frequency (MHz)	Max. Attenuation (dB/100m)
5	2.82	400	16.01
55	6.17	450	17.39
211	11.78	550	19.36
270	13.29	750	22.83

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300	14.01	870	24.74
350	15.22	1000	26.54

Max. Operating Voltage 350 V RMS

PUT-UPS AND COLORS:

Item	Description	Put-Up* (metre)	Ship Weight (kg)	Jacket Color
9105SL2P 010A305M	#20 GIFHDLDPPE SH PVC WPM	305M	17	BLACK
9105SL2P 009A305M	#20 GIFHDLDPPE SH PVC WPM	305M	17	WHITE

* Other lengths available upon request.

Revision Number: 2

Revision Date: 28/4/2017

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