

9116S Coax – Series 6

 	<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 6, 18 AWG 1.02mm solid bare copper covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II tape+ aluminum braid shield (56% coverage), PVC jacket

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	1.02 mm
Conductor Material	BCCS - Bare Copper Covered Steel

INSULATION:

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	4.57 mm

OUTER SHIELD:

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

Layer Number	Type	Material	% Coverage (%)
1	Tape	Bonded Aluminum Foil – Polyester Tape – Aluminum Foil	100
2	Braid	AL – Aluminum	56

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	6.80 mm
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MECHANICAL CHARACTERISTICS:

Detailed Specifications & Technical Data



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Operating Temperature Range (Non-UL)	- 40°C To + 80°C
Bulk Cable Weight	42 kg/km
Max. Recommended Pulling Tension	560 N
Min. Bend Radius (Install)	50.8 mm

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

EU CE Mark (Y/N)	N
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Dec 2005

SWEEP TEST:

Sweep Testing	5 MHz – 1 GHz
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	9116P

ELECTRICAL CHARACTERISTICS:

Nom. Characteristics Impedance	75 +/- 3 Ohms
Nom. Capacitance Conductor to Shield	53.5 pF/m
Nom. Velocity of Propagation	83 %
Nom. Conductor DC Resistance @ 20 Deg.C	91.8 Ohms/km
Nom. Outer Shield DC Resistance @ 20 Deg.C	29.5 Ohms/km
Min. Structural Return Loss (5~1000 MHz)	20 dB

Max. Attenuation:

Frequency (MHz)	Max. Attenuation (dB/100m)	Frequency (MHz)	Max. Attenuation (dB/100m)
5	2.23	400	13.80
55	5.25	450	14.66
211	9.90	550	16.23
270	11.28	750	19.11
300	11.93	870	20.66
350	12.89	1000	22.23

Max. Operating Voltage	300 V RMS
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PUT-UPS AND COLORS:

Item	Description	Put-Up* (metre)	Ship Weight (kg)	Jacket Color	Note**
9116S 009152M	#18 GIFHDLDP SH PVC	152M	7	White	C
9116S 009305M	#18 GIFHDLDP SH PVC	305M	14	White	C
9116S 009U305M	#18 GIFHDLDP SH PVC	305M	13	White	
9116S 010152M	#18 GIFHDLDP SH PVC	152M	7	Black	C
9116S 010305M	#18 GIFHDLDP SH PVC	305M	14	Black	C
9116S 010U305M	#18 GIFHDLDP SH PVC	305M	13	Black	

* Other lengths available upon request.

** Crate Reel Put-up.

Revision Number: 4

Revision Date: 10/27/2014

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