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1-800-Belden1



General Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

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	100.000
2		Braid	AL - Aluminum	60.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Armor

Armor Type: Interlocked

Armor Material: Aluminum

Diameter over Armor: .477

Overall Cable

Overall Nominal Diameter: 12.116 mm

Mechanical Characteristics (Overall)

Installation Temperature Range: -30°C To +80°C

Operating Temperature Range: -40°C To +80°C

Max. Recommended Pulling Tension: 889.640 N

Min. Bend Radius/Minor Axis: 146.050 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

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
EU RoHS Compliance Date (mm/dd/yyyy):	11/19/2007
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
Series Type:	Series 6

Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	9116P

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.152

Nominal Velocity of Propagation:

VP (%)

83.000

Nominal Delay:

Delay (ns/m)

3.937

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

91.868

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

29.529

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

5.000	2.198
55.000	5.250
211.000	9.416
270.000	10.630
300.000	11.254
350.000	12.205
400.000	13.124
450.000	13.977
550.000	15.454
750.000	18.341
870.000	19.686
1000.000	21.458

Max. Operating Voltage - UL:

Voltage
350 V RMS

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	1000.000	20.000

Sweep Test

Sweep Testing: 5 MHz - 1 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29116 0001000	1,000 FT	86.000 LB	NONE	C	9116 ALUMINUM ARMOR

Notes:

C = CRATE REEL PUT-UP.

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