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1-800-Belden1



Description:

Series 6, 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

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
2		Braid	AL - Aluminum	60

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 6.858 mm

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 560.473 N

Min. Bend Radius (Install)/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

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): 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

Series Type: Series 6

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 9116P

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

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)
91.868

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
29.529

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	2.19827
55	5.2496
211	9.41647
270	10.6304
300	11.2538
350	12.2053
400	13.124
450	13.9771
550	15.4535
750	18.3408
870	19.686
1000	21.4577

Max. Operating Voltage - UL:

Voltage
350 V RMS

Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	1000	20

Sweep Test

Sweep Testing: 5 MHz - 1 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9116 Q5HU1000	305 MT	13.154 KG	WHITE, NEUTRAL		#18 GIFHDLPE SH PVC
9116 Q5H1000	305 MT	13.608 KG	WHITE, NEUTRAL		#18 GIFHDLPE SH PVC
9116 009U1000	305 MT	13.154 KG	WHITE		#18 GIFHDLPE SH PVC
9116 0091000	305 MT	13.608 KG	WHITE		#18 GIFHDLPE SH PVC
9116 009500	152 MT	7.031 KG	WHITE		#18 GIFHDLPE SH PVC
9116 010S700	213 MT	8.573 KG	BLACK		#18 GIFHDLPE SH PVC
9116 010U1000	305 MT	13.154 KG	BLACK		#18 GIFHDLPE SH PVC
9116 010U500	152 MT	6.804 KG	BLACK		#18 GIFHDLPE SH PVC
9116 0101000	305 MT	13.608 KG	BLACK	C	#18 GIFHDLPE SH PVC
9116 010500	152 MT	7.031 KG	BLACK		#18 GIFHDLPE SH PVC
9116 290U1000	305 MT	13.154 KG	BEIGE, LIGHT		#18 GIFHDLPE SH PVC

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 02-20-2012

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