

For more Information
please call

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 Cabling

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

Related Documents:

No related documents are available for this product

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: 2 Revision Date: 04-26-2010

© 2011 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.