



Product: [9116E](#)

Broadband Coax, Series 6, 18 AWG Solid BCCS, Foil + 60% AL Braid, PVC Jkt

Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, Foil + 60% Aluminum Braid Shield, PVC Jacket.

Technical Specifications

Product Overview

Suitable Applications:	Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas
------------------------	--

Construction Details

RG Type:	6
----------	---

Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	1.02 mm	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	4.6 mm (0.18 in)

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Aluminum	56%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6.9 mm

Electrical Characteristics

Return Loss (RL)

Frequency	Min. Return Loss
5 - 470 MHz	20 dB
470 - 1000 MHz	18 dB

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
--------------	--

Attenuation

Frequency	Nom. Attenuation
5 MHz	2.8 dB/100m
50 MHz	4.9 dB/100m
100 MHz	6.5 dB/100m
200 MHz	9 dB/100m
400 MHz	13 dB/100m
600 MHz	16.3 dB/100m
800 MHz	18.9 dB/100m
1000 MHz	21.8 dB/100m

Table Notes:	Max. attenuation 10% higher
--------------	-----------------------------

Electricals

Max. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
105 Ohm/km (32.0 Ohm/1000ft)	51 Ohm/km (16 Ohm/1000ft)	54 pF/m (16 pF/ft)	75 Ohm	82%

Screening

Frequency	Min. Screening Attenuation
50 - 650 MHz	65 dB
650 - 1000 MHz	75 dB

Mechanical Characteristics

Temperature

Operating	Storage
-40°C To +70°C	-40°C To +70°C

Bend Radius

Stationary Min.
70 mm (2.8 in)

Bulk Cable Weight:	40 kg/km
--------------------	----------

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61196
CENELEC Compliance:	EN 50117-1, EN 50117-9-1 and EN 50290-2-20

History

Update and Revision:	Revision Number: 0.207 Revision Date: 04-08-2022
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
9116E.00305	Black	Reel	305 m	8719605020130
9116E.01305	White	Reel	305 m	8719605020147

© 2022 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.