



**Product:** [9116P](#)

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

### Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, FEP Insulation, Foil + 60% Aluminum Braid Shield, Flamarrest® Jacket, CMP

### Technical Specifications

#### Product Overview

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

#### Construction Details

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

#### Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	BCCS - Bare Copper Covered Steel

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.170 in (4.32 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		60%

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.235 in (5.97 mm)

Overall Cable Diameter (Nominal):	0.235 in (5.97 mm)
-----------------------------------	--------------------

#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Structural Return Loss
5 - 1000 MHz	20 dB

##### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.3 dB/100ft
10 MHz	0.7 dB/100ft
50 MHz	1.6 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	2.9 dB/100ft
400 MHz	4.3 dB/100ft
700 MHz	6.1 dB/100ft
750 MHz	6.4 dB/100ft

900 MHz	7.1 dB/100ft
1000 MHz	7.6 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
28 Ohm/1000ft	9 Ohm/1000ft (30 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

#### Voltage

<b>UL Voltage Rating</b>
300 V (CMP)

## Mechanical Characteristics

#### Temperature

<b>Operating</b>
-20°C to +75°C

#### Bend Radius

<b>Installation Min.</b>
3 in (76 mm)

Max. Pull Tension:	150 lbs (68 kg)
Bulk Cable Weight:	25 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	9116, 9116R

## History

Update and Revision:	Revision Number: 0.472 Revision Date: 04-13-2023
----------------------	--

## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
9116P 010U500	Black	UnReel	500 ft	612825224501
9116P 0101000	Black	Reel	1,000 ft	612825224464
9116P 010U1000	Black	UnReel	1,000 ft	612825224471
9116P 8771000	Natural	Reel	1,000 ft	612825224495
9116P 877U1000	Natural	UnReel	1,000 ft	612825224525

© 2023 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.