



**Part Number: 9116**

CATV Video, RG6, #18 BCCS, Foil + 60% Braid, CM

**Product 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.

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor (Not Riser or Plenum)
Suitable Applications:	CATV, Broadband

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.04 in	1

Conductor Count:	1
Conductor Size:	18 AWG

**Insulation**

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.18 in

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil® (Bonded to Dielectric)	100 %
Braid	2	AL - Aluminum		60 %

**Outer Jacket Material**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
28 Ohm/1000ft	9 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Shield
16.2 pF/ft

**Inductance**

Nominal Inductance
0.097 µH/ft

**Impedance**

Nominal Characteristic Impedance	Nominal Characteristic Tolerance

75 Ohm	± 3 Ohm
--------	---------

#### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 - 1000 MHz	20 dB

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83 %

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.58 dB/100ft
55 MHz	1.60 dB/100ft
211 MHz	3.05 dB/100ft
250 MHz	3.30 dB/100ft
270 MHz	3.37 dB/100ft
300 MHz	3.55 dB/100ft
330 MHz	3.74 dB/100ft
350 MHz	3.85 dB/100ft
400 MHz	4.15 dB/100ft
450 MHz	4.40 dB/100ft
500 MHz	4.66 dB/100ft
550 MHz	4.90 dB/100ft
600 MHz	5.10 dB/100ft
750 MHz	5.65 dB/100ft
870 MHz	6.11 dB/100ft
1000 MHz	6.55 dB/100ft

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

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

#### Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	27 lbs/1000ft
Max Recommended Pulling Tension:	126 lbs
Min Bend Radius/Minor Axis:	2.75 in

#### Standards

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	CM
CPR Euroclass:	Eca
Series Type:	Series 6

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
-----------------------	--

Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1581 Vertical Flame
CSA Flammability:	FT1
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

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

## Part Number

### Variants

Item #	Color	Footnote
9116 290U1000	Beige, Light	
9116-0101000	Black	
9116 0101000	Black	C
9116 010500	Black	
9116 010S700	Black	
9116 010U1000	Black	
9116 010U500	Black	
9116 010N1000	Black	C
9116 0091000	White	
9116 009500	White	
9116 009U1000	White	
9116 009N1000	White	C
9116 Q5H1000	White, Neutral	
9116 Q5HU1000	White, Neutral	

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

## Product Notes

Notes:	Print legend includes sequential footage marks.
--------	---

© 2019 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.