


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



CATV Video, RG6, #18 Solid BCCS, Foil + 60% Braid, LSZH Jacket, CMG-LS, ABS Type Approved

### Product Description

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond II® plus an aluminum braid shield (60% coverage), LSZH jacket.

### Technical Specifications

#### Product Overview

Suitable Applications:	Coaxial Cable for Communication, Audio, Video, CATV, MATV, Broadband, or Broadcast use in Marine Shipboard and Offshore use
------------------------	---

#### 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
------------------	---

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 in

Table Notes:	Gas Injected
--------------	--------------

##### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Aluminum		60%

##### Outer Jacket Material

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.274 in

#### Electrical Characteristics

##### Conductor DCR

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

## Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-1000 MHz	20 dB
1000-2250 MHz	15 dB
2250-3000 MHz	10 dB

## Delay

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

## High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.67 dB/100ft
55 MHz	1.6 dB/100ft
211 MHz	2.87 dB/100ft
270 MHz	3.24 dB/100ft
300 MHz	3.43 dB/100ft
350 MHz	3.72 dB/100ft
400 MHz	4 dB/100ft
450 MHz	4.26 dB/100ft
550 MHz	4.71 dB/100ft
750 MHz	5.59 dB/100ft
870 MHz	6 dB/100ft
1000 MHz	6.54 dB/100ft
1450 MHz	8.3 dB/100ft
1800 MHz	9.3 dB/100ft
2250 MHz	10.6 dB/100ft
3000 MHz	11.9 dB/100ft

## Voltage

UL Voltage Rating
300 V RMS

## Temperature Range

Operating Temp Range:	-30°C To +75°C
-----------------------	----------------

## Mechanical Characteristics

Bulk Cable Weight:	28 lbs/1000ft
Max. Pull Tension:	126 lbs
Min Bend Radius/Minor Axis:	2.75 in

## Standards

NEC/(UL) Compliance:	CMG-LS
CEC/C(UL) Compliance:	CMG-LS
IEEE Compliance:	Std. 45 clause 23
Series Type:	6
Other Compliance:	UL444, ABS Type Approval Certificate 05-HS500072C

## Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading, Limited Smoke
CSA Flammability:	FT4
IEC Flammability:	60332-1^60332-3-22 (Category A)
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

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

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
9116SB 0101000	Black	Reel	1,000 ft	612825224556

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

## History

Update and Revision:	Revision Number: 0.308 Revision Date: 02-16-2021
----------------------	--

© 2021 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.