Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

84316 Coax - 50 Ohm Coax

For more Information
please call

1-800-Belden1

General Description:

26 AWG stranded (7x34) .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (95% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	26	7x34	SPCCS - Silver Plated Copper Covered Steel	0.508

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	1.4732

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

Overall Cable

Overall Nominal Diameter:	2.438 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	14.882 Kg/Km
Max. Recommended Pulling Tension:	93.412 N
Min. Bend Radius/Minor Axis:	25.400 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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
Military Specification:	MIL-C-17, M17/113-RG316
RG Type:	316/U

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.219827

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
95.149

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/m)
4.85588

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
275.932

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
21.3265

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	3.937
10.000	8.859
50.000	18.374
100.000	27.232
200.000	39.372
400.000	57.418
700.000	77.760
900.000	89.571
1000.000	95.149
1500.000	119.757
2000.000	139.443
2400.000	154.863
3000.000	175.862

Max. Operating Voltage - Other:

Voltage	Description
Military Specification	900 V RMS

Minimum Structural Return Loss:

Freq. (MHz)	Min. SRL (dB)
50.000	30.000
100.000	30.000
400.000	23.000
1000.000	21.000

3000.000	17.000

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
84316 001100	100 FT	1.100 LB	BROWN	E	M17/13-RG316 COAX
84316 0011000	1,000 FT	11.000 LB	BROWN	E	M17/13-RG316 COAX
84316 001500	500 FT	6.000 LB	BROWN	E	M17/13-RG316 COAX

Notes:
E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Number: 5 Revision Date: 08-22-2012

© 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 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.