

84142

Part Number: 84142



Product Description

19 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, double silver-coated copper braid shields (95% coverage), FEP jacket.

Product Specifications

Conductor

Total Number of Conductors:	1
-----------------------------	---

Technical Specifications

APAC Standard

Mill Order #39 (China RoHS):	Yes
------------------------------	-----

Bend Radius

Min Bend Radius/Minor Axis:	2 in
-----------------------------	------

CCB-Part Number

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

CCB-Sub-Part Number

Plenum (Y/N):	Yes
---------------	-----

Contact Information

PHONE_NUM:	1-800-Belden1
------------	---------------

EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
--------------------------	-------------------------------

Environmental Characteristics

Operating Temp Range:	-70°C To +200°C
-----------------------	-----------------

EU Directive

EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01

North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMP
Military Specification:	MIL-DTL-17H, M17/60
NEC/(UL) Specification:	CMP
RG Type:	142/U

Safety

CSA Flammability:	FT6
-------------------	-----

Temperature Range

UL Temp Rating:	200°C
-----------------	-------

Use

Max Recommended Pulling Tension:	146 lbs
----------------------------------	---------

Impedance:

Nominal Characteristic Impedance

50 Ohm

Inductance:

Nominal Inductance

0.067 μ H/ft

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
19.3 Ohm/1000ft	2.3 Ohm/1000ft

Power Rating:

Frequency [MHz]	Max. Power Rating [W]
50 MHz	3,500 W
100 MHz	2,400 W
400 MHz	1,100 W
1,000 MHz	650 W
3,000 MHz	330 W
8,000 MHz	180 W

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP)
1.48 ns/ft	0.7 %

Voltage:

UL Voltage Rating
150V RMS

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)
50 MHz	4 db/100ft
100 MHz	5.5 db/100ft
400 MHz	11.7 db/100ft
1000 MHz	19 db/100ft
3000 MHz	35 db/100ft
8000 MHz	66 db/100ft

VSWR:

Frequency [MHz]	Max. VSWR
50 MHz	1.11

400 MHz	1.14
1000 MHz	1.17
3000 MHz	1.33
8000 MHz	1.33

Capacitance:

Nominal Capacitance Conductor to Shield

29 pF/ft

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
10 MHz	1.1 db/100ft
50 MHz	2.6 db/100ft
100 MHz	3.8 db/100ft
200 MHz	5.4 db/100ft
400 MHz	7.9 db/100ft
700 MHz	10.7 db/100ft
900 MHz	12.3 db/100ft
1000 MHz	13.1 db/100ft
2000 MHz	19.3 db/100ft
3000 MHz	24.2 db/100ft
5000 MHz	32.6 db/100ft
8000 MHz	43.2 db/100ft

Insulation:

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.116 in

Outerjacket 1:

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.195 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	SCCCS - Silver-coated Copper-covered Steel	0.037 in	1

Outershield 1:

Type	Layer	Material	Coverage
Braid	1	Silver-coated Copper	95 %
Braid	2	Silver-coated Copper	95 %

Product Variants

Part Number	Color	Put-Up Type	Length
84142 0011000	BROWN	Reel	1000 ft
84142 001100	BROWN	Reel	100 ft
84142 001500	BROWN	Reel	500 ft

© 2015 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.