

1674A

Part Number: 1674A

50 Ohm Microwave Cable



Product Description

M17/151 type, 29 AWG solid .011" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

Product Specifications

Conductor

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

Technical Specifications

APAC Standard

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

Bend Radius

Min Bend Radius (Overall):	0.5 in
Min Bend Radius/Installation:	0.125 in
Min Flexing Radius:	0.375 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):	No
---------------	----

Connectors

Suggested Connectors:	Connectors: CDI #5285-5CC and QMI #3-3697-814-10
-----------------------	--

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
-----------------------	-----------------

Suitability - Indoor:	Yes
-----------------------	-----

EU Directive

EU CE Mark:	No
-------------	----

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
---------------------------------------	------------

North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
-----------------------------------	-----

RG Type:	M17/151
----------	---------

UL AWM Style:	UL Style 10245 (30 V 105°C)
---------------	-----------------------------

Safety

Other Flammability:	Horizontal Wire
---------------------	-----------------

Temperature Range

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

UL Temp Rating:	105°C (UL AWM Style 10245)
-----------------	----------------------------

Use

Suitability - Outdoor:	Yes
------------------------	-----

Max Recommended Pulling Tension:	20 lbs
----------------------------------	--------

Impedance:

Nominal Characteristic Impedance

50 Ohm

Inductance:

Nominal Inductance

0.07 μ H/ft

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
-----------------------	--------------------------

205 Ohm/1000ft	8 Ohm/1000ft
----------------	--------------

Power Rating:

Frequency [MHz]	Max. Power Rating [W]
-----------------	-----------------------

500 MHz	45 W
---------	------

1,000 MHz	31 W
-----------	------

2,000 MHz	22 W
-----------	------

3,000 MHz	18 W
-----------	------

5,000 MHz	13 W
-----------	------

7,000 MHz	11 W
-----------	------

10,000 MHz	9.3 W
------------	-------

15,000 MHz	7.6 W
------------	-------

18,000 MHz	6.9 W
------------	-------

20,000 MHz	6.5 W
------------	-------

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP)
---------------	--------------------------------------

1.46 ns/ft	69.5 %
------------	--------

Voltage:

Non-UL Voltage Rating	UL Voltage Rating
-----------------------	-------------------

1000V RMS	30V RMS (UL AWM Style 10245)
-----------	------------------------------

VSWR:

Frequency [MHz]	Max. VSWR
-----------------	-----------

500 MHz	1.16:1
---------	--------

1000 MHz	1.17:1
3000 MHz	1.20:1
5000 MHz	1.24:1
10000 MHz	1.33:1
15000 MHz	1.41:1
18000 MHz	1.50:1
20000 MHz	1.50:1

Capacitance:

Nominal Capacitance Conductor to Shield	
29.5 pF/ft	

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
500 MHz	25 db/100ft
1000 MHz	36.7 db/100ft
2000 MHz	53.8 db/100ft
3000 MHz	67.3 db/100ft
5000 MHz	89.2 db/100ft
7000 MHz	107.5 db/100ft
10000 MHz	130.9 db/100ft
15000 MHz	163.8 db/100ft
18000 MHz	181.1 db/100ft
20000 MHz	192 db/100ft

Insulation:

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.034 in

Outerjacket 1:

Material	Nominal Diameter
Unjacketed	0.047 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
29	Solid	SPCCS - Silver Plated Copper Covered Steel	0.011 in	1

Outershield 1:

Type	Layer	Material	Coverage
Tape	1	Copper Foil	100 %
Braid	2	Tin-Filled Composite	100 %

Product Variants

Part Number	Color	Put-Up Type	Length
1674A TIN1000	TIN	Reel	1000 ft
1674A TIN100	TIN	Reel	100 ft
1674A TIN500	TIN	Reel	500 ft
1674A TIN50	TIN	Reel	50 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.