


**Product:** [1675A](#) 



Conformable Coax, 50 Ohm, RG-401, 14 AWG Solid SCCS, Copper-Tin Composite Shield, Unjacketed

## Product Description

Conformable Coax, 50 Ohm, RG-401, 14 AWG Solid Silvered Copper Covered Steel Conductor, PTFE Insulation, Copper Tape + 100% Tin-Filled Composite Braid Shield, Unjacketed

## Technical Specifications

### Product Overview

Suitable Applications:	Microwave and other high frequency applications, Interconnect RF equipment, Radar equipment, Military communications
------------------------	--

### Construction Details

RG Type:	401
----------	-----

#### Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	14 AWG	Solid	0.065 in	SCCS - Silvered Copper Covered Steel

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.21 in (5.3 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Bare Copper (BC)	100%
2	Braid	Tinned Copper (TC + Tin Filled)	100%

#### Outer Jacket

Material
No Jacket

Overall Cable Diameter (Nominal):	0.246 in (6.25 mm)
-----------------------------------	--------------------

### Electrical Characteristics

#### VSWR

Frequency	Max. VSWR
400 MHz	1.10:1
1000 MHz	1.11:1
3000 MHz	1.14:1
7000 MHz	1.21:1
10000 MHz	1.25:1
18000 MHz	1.38:1

#### Attenuation

Frequency	Nom. Attenuation
400 MHz	3.8 dB/100ft
500 MHz	4.4 dB/100ft
1000 MHz	6.8 dB/100ft

2000 MHz	10.4 dB/100ft
3000 MHz	13 dB/100ft
5000 MHz	19 dB/100ft
7000 MHz	22.8 dB/100ft
10000 MHz	28 dB/100ft
15000 MHz	36.6 dB/100ft
18000 MHz	41.0 dB/100ft

#### Power Rating

Frequency	Max. Power Rating
400 MHz	1,900 W
500 MHz	1,665 W
1,000 MHz	1,105 W
2,000 MHz	733 W
3,000 MHz	577 W
5,000 MHz	427 W
7,000 MHz	350 W
10,000 MHz	283 W
15,000 MHz	223 W
18,000 MHz	200 W

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
2.5 Ohm/1000ft (8.2 Ohm/km)	8.6 Ohm/1000ft (28 Ohm/km)	29.6 pF/ft (97.1 pF/m)	50 Ohm	70%

#### Voltage

UL Voltage Rating	Voltage Rating
30 V RMS	2900 V RMS

Electrical Characteristics Notes: VSWR limit is a continuous sloping line from 500 MHz to 18 GHz

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
105°C	-70°C To +200°C

#### Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
1.125 in (28.58 mm)	.375 in (9.53 mm)	1.125 in (28.58 mm)

Max. Pull Tension: 122 lbs (55.3 kg)

Bulk Cable Weight: 81 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor
AWM Compliance:	AWM 10245
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

### Product Notes

Notes:	Commercial non-QPL product
--------	----------------------------

### History

Update and Revision:	Revision Number: 0.474 Revision Date: 05-03-2023
----------------------	--

### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1675A TIN100	Tin	Reel	100 ft	612825120537	E
1675A TIN500	Tin	Reel	500 ft	612825120544	C E

© 2024 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.