

## 1671A Coax - 50 Ohm Microwave Cable

		<p style="text-align: center;"><b>For more information please call</b> <b>1-800-Belden1</b></p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p>
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### Description:

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	405/U
AWG	24
Stranding	Solid
Conductor Diameter	.020 in.
Conductor Material	SPCCS - Silver Plated Copper Covered Steel

#### INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	TFE - Tetrafluoroethylene
Insulation Diameter	.062 in.

#### OUTER SHIELD:

Outer Shield Type	Tape/Braid
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#### Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1		Tape	Copper Foil	100
2		Braid	Tin-Filled Composite	100

Outer Shield % Coverage	100 %
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#### OUTER JACKET:

Outer Jacket Material	Unjacketed
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#### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.085 in.
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#### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-70°C To +200°C
UL Temperature Rating	105°C (UL AWM Style 10245)

**1671A Coax - 50 Ohm Microwave Cable**

Non-UL Temperature Rating	200°C
Bulk Cable Weight	11.9 lbs/1000 ft.
Max. Recommended Pulling Tension	26 lbs.
Min. Bend Radius (Install)	0.12 in.
Min. Bend Radius (Continuous Flexing)	0.37 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

AWM Specification	UL Style 10245 (30 V 105°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005

**FLAME TEST:**

Other Flame Test	Horizontal Wire
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**SUITABILITY:**

Suitability - Indoor	Yes
Suitability - Outdoor	Yes

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	.07 µH/ft
Nom. Capacitance Conductor to Shield	29.5 pF/ft
Nominal Velocity of Propagation	69.5 %
Nominal Delay	1.46 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	64.2 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	10.2 Ohms/1000 ft

**Maximum VSWR :**

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum VSWR
	500			1.1:1
	20000			1.3:1

Nom. Attenuation :

**1671A Coax - 50 Ohm Microwave Cable**

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	500			15.0
	1000			22.2
	2000			32.8
	3000			41.2
	5000			54.9
	7000			66.4
	10000			81.2
	15000			102
	18000			113
	20000			120

Max. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Power Rating (W)
	500			180
	1000			119
	2000			79
	3000			62
	5000			46
	7000			37
	10000			30
	15000			24
	18000			21
	20000			20

Max. Operating Voltage - UL 30 V RMS (UL AWM Style 10245)

Max. Operating Voltage - Non-UL 1500 V RMS

**NOTES:**

Notes US Patents 4, 694, 122 & 5, 293, 001. Patent held in the U.S., Singapore, Australia, Germany, France, and England. Patent pending in Japan. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1671A TIN100	#24 TFE BRD TINNED COAX	100	2.5	TIN - COLOR	
1671A TIN1000	#24 TFE BRD TINNED COAX	1000	14	TIN - COLOR	V
1671A TIN50	#24 TFE BRD TINNED COAX	50	1.95	TIN - COLOR	
1671A TIN500	#24 TFE BRD TINNED COAX	500	7.5	TIN - COLOR	V

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECES MINIMUM LENGTH 50' 500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECES MINIMUM LENGTH 50' 1000' PUT-UP EXACT LENGTH MAXIMUM OF 8 PIECES MINIMUM LENGTH 50'

Revision Number: 3 Revision Date: 10-03-2005

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