


## 1673J Coax - 50 Ohm Microwave Cable

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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### Description:

RG-402/U type, 19 AWG solid .036" silver-plated copper-covered steel conductor, TFE Teflon® Insulation, copper-tin composite shield (100% coverage), PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	402/U
AWG	19
Stranding	Solid
Conductor Diameter	.036 in.
Conductor Material	SPCCS - Silver Plated Copper Covered Steel

#### INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	TFE - Tetrafluoroethylene
Insulation Diameter	.116 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	PVC - Polyvinyl Chloride
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#### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.178 in.
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#### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +105°C
UL Temperature Rating	105°C

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Non-UL Temperature Rating	105°C
Bulk Cable Weight	20 lbs/1000 ft.
Max. Recommended Pulling Tension	70 lbs.
Min. Bend Radius (Install)	0.25 in.
Min. Bend Radius (Continuous Flexing)	0.75 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

AWM Specification	UL Style 10245
EU CE Mark (Y/N)	No
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	0.070 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	20.5 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	4.5 Ohms/1000 ft

#### Maximum VSWR :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum VSWR
Ramp Function, End Points	500			1.1
	20000			1.3

#### Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	500			8.0
	1000			12.0
	2000			18.1
	3000			22.9
	5000			31.0
	7000			37.8
	10000			46.6
	15000			59.1
	18000			65.8
	20000			70.0

### Max. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	500			9.5
	1000			14.5
	3000			26.5
	5000			36.0
	10000			54.0
	20000			84.0

### Nom. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Power Rating (W)
	500			600
	1000			401
	2000			268
	3000			211
	5000			157
	7000			129
	10000			105
	15000			83
	18000			74
	20000			70

Max. Operating Voltage - UL 30 V RMS

Max. Operating Voltage - Non-UL 1900 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
1673J 010100	#19 TFE BRD TINNED COAX PVC	100	5.1	BLACK	C

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1673J 010500	#19 TFE BRD TINNED COAX PVC	500	17.5	BLACK	C V
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C = CRATE REEL PUT-UP.

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'

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