



Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	24	Solid	SPC - Silver Plated Copper	.020

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.062

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Copper Foil	100
2	Braid	Tin-Filled Composite	100

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Unjacketed

Overall Cabling

Overall Nominal Diameter: 0.085 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	105°C (UL AWM Style 10245)
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	11.900 lbs/1000 ft.
Max. Recommended Pulling Tension:	26 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.120 in.
Min. Bend Radius (Continuous Flexing):	0.370 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification:	UL Style 10245 (30 V 105°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005

1671B Coax - 50 Ohm Microwave Cables

EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	405/U

Flame Test

Other Flame Test:	Horizontal Wire
-------------------	-----------------

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/ft)

.07

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

29.5

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/ft)

1.46

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

25.7

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.2

Maximum VSWR:

Freq. (MHz)	Max. VSWR
500	1.1:1
20000	1.3:1

Nom. Attenuation:

Freq. (MHz)	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:

1671B Coax - 50 Ohm Microwave Cables

Freq. (MHz)	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:

Voltage
30 V RMS (UL AWM Style 10245)

Max. Operating Voltage - Non-UL:

Voltage
1500 V RMS

Misc. Information (Overall)

Other Description: Updated VSWR Field, Updated Temp rating. 10-03-05 BAG: Updated attenuation

Notes (Overall)

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 #	Putup	Ship Weight	Color	Notes	Item Desc
1671B TIN500	500 FT	6.500 LB	TIN - COLOR	E	#24 TFE CU FS BRD TINNED COAX

Notes:

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Conformable® Coax Cable


50 Ohm Microwave Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

M17/151 Type • 29 AWG Solid .011" Silver-plated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)

TFE Teflon® Insulation • Unjacketed


UL AWM Style 10245 (30V 105°C)	1674A*	—	50 100 500 1000	15.2 30.5 152.4 304.8	.2 .4 2.0 5.0	.1 .2 .9 2.3	29 AWG (solid) .011" SPCCS	.034 .85	CT Composite 100% Shield Coverage	.047 1.19	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
--------------------------------------	--------	---	--------------------------	--------------------------------	------------------------	-----------------------	-------------------------------------	-------------	--	--------------	----	-------	------	------	---	---	--



M17/151 Type • 29 AWG Solid .011" Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)

TFE Teflon Insulation • Unjacketed

UL AWM Style 10245 (30V 105°C)	1674B*	—	100†† 500†† 1000††	30.5 152.4 304.8	.4 2.0 5.0	.2 .9 2.3	29 AWG (solid) .011" SPC	.034 .85	CT Composite 100% Shield Coverage	.047 1.19	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
--------------------------------------	--------	---	--------------------------	------------------------	------------------	-----------------	-----------------------------------	-------------	--	--------------	----	-------	------	------	---	---	--



RG-405/U Type • 24 AWG Solid .020" Silver-plated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)

TFE Teflon Insulation • Unjacketed


UL AWM Style 10245 (30V 105°C)	1671A*	—	50 100 500† 1000†	15.2 30.5 152.4 304.8	2.0 2.5 7.5 14.0	.9 1.1 3.4 6.4	24 AWG (solid) .020" SPCCS	.062 1.57	CT Composite 100% Shield Coverage	.085 2.16	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
--------------------------------------	--------	---	----------------------------	--------------------------------	---------------------------	-------------------------	-------------------------------------	--------------	--	--------------	----	-------	------	------	---	---	--



Suitable for outdoor applications.

TFE Teflon Insulation • PVC Jacket (Black or Clear)

UL AWM Style 10245 (30V 105°C)	1671J*	—	100†▲ 500† 1000†	30.5 152.4 304.8	2.9 9.5 17.0	1.3 4.7 7.7	24 AWG (solid) .020" SPCCS	.062 1.57	CT Composite 100% Shield Coverage	.127 3.23	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
--------------------------------------	--------	---	------------------------	------------------------	--------------------	-------------------	-------------------------------------	--------------	--	--------------	----	-------	------	------	---	---	--




▲100 ft. put-up available in Black only.
Suitable for outdoor applications.

RG-405/U Type • 24 AWG Solid .020" Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)

TFE Teflon Insulation • Unjacketed

UL AWM Style 10245 (30V 105°C)	1671B	—	500†† 1000††	152.4 304.8	7.0 13.0	3.2 6.0	24 AWG (solid) .020" SPC	.062 1.57	CT Composite 100% Shield Coverage	.085 2.16	50	69.5%	29.5	96.8	500 1000 2000 3000 5000 7000 10000 15000 18000 20000	15.0 22.2 32.8 41.2 54.9 66.4 81.2 102.0 113.0 120.0	49.2 72.8 107.6 135.2 180.1 217.9 266.4 334.7 370.8 393.7
--------------------------------------	-------	---	-----------------	----------------	-------------	------------	-----------------------------------	--------------	--	--------------	----	-------	------	------	---	---	--



Suitable for outdoor applications.

CT = Copper-Tin • DCR = DC Resistance • SPC = Silver-plated Copper • SPCCS = Silver-coated Copper-covered Steel • TFE = Tetra Fluoroethylene

*Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

†250 ft. put-up: Exact 3 pieces (maximum), 50 feet minimum length
500 ft. put-up: Exact 5 pieces (maximum), 50 feet minimum length
1000 ft. put-up: Exact 8 pieces (maximum), 50 feet minimum length

††May contain more than one piece. Min. length of any one piece is 25 ft.

Teflon is a Dupont trademark.

