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1-800-Belden1



General Description:

RG-401/U type, 14 AWG solid .065" 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. (mm)
1	14	Solid	SPC - Silver Plated Copper	1.651

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	5.334

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 Cable

Overall Nominal Diameter: 6.248 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	105°C
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	120.544 Kg/Km
Max. Recommended Pulling Tension:	542.680 N
Min. Bend/Installation:	9.525 mm
Min. Flexing Radius:	2.858 cm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification:	UL Style 10245
EU Directive 2011/65/EU (ROHS II):	Yes
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
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:	401/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/m)
0.22967

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
97.1176

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/m)
4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
8.2025

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
26.248

Maximum VSWR:

Description	Freq. (MHz)	Max. VSWR
Ramp Function, End Points	400	1.1
	1800	1.38

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
400	12.4678
500	14.4364
1000	22.3108
2000	34.1224
3000	43.9654
5000	60.6985
7000	74.8068
10000	93.1804
15000	120.085
18000	134.521

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
400	16.405
500	18.7017
1000	28.8728
3000	56.7613
5000	78.0878
10000	120.085
18000	173.237

Nom. Power Rating:

Freq. (MHz)	Rating (W)
400	1900
500	1665
1000	1105
2000	733
3000	577

METRIC MEASUREMENT VERSION

1675A Coax - 50 Ohm Microwave Cable

5000	427
7000	350
10000	283
15000	223
18000	200

Max. Operating Voltage - UL:

Voltage
30 V RMS

Max. Operating Voltage - Non-UL:

Voltage
2900 V RMS

Notes (Overall)

Notes: 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
1675A TIN100	100 FT	8.400 LB	TIN - COLOR	E	#14 TFE CU FS BRD TINNED COAX
1675A TIN500	500 FT	42.000 LB	TIN - COLOR	C E	#14 TFE CU FS BRD TINNED COAX

Notes:

C = CRATE REEL PUT-UP.

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

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