Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

1675A Coax - 50 Ohm Microwave Cable

For more Information please call

1-800-Belden1



General Description:

BELDEN

RG-401/U type, 14 AWG solid .065" silver-plated copper conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

composite silleid (100 % coverage), unjacke	
Physical Characteristics (Overall)	
Conductor	
AWG:	
# Coax AWG Stranding Conductor Material 1 14 Solid SPC - Silver Plated Copper	Dia. (mm) 1.651
Total Number of Conductors:	1
Insulation Insulation Material:	
	a. (mm)
Teflon® TFE - Tetrafluoroethylene 5.3	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
	0.270 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 Co	ompliance (Overall)
Applicable Specifications and Agency Co Applicable Standards & Environmental Progr	
AWM Specification:	UL Style 10245
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
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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/Non-Plenum Plenum (Y/N):	No
Plenum (Y/N):	No
	No
Plenum (Y/N): Electrical Characteristics (Overall)	No
Plenum (Y/N): Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm)	No
Plenum (Y/N): Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50	No
Plenum (Y/N): Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.22967 Nom. Capacitance Conductor to Shield:	No
Plenum (Y/N): Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.22967	No
Plenum (Y/N): Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.22967 Nom. Capacitance Conductor to Shield: Capacitance (pF/m)	No
Plenum (Y/N): 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	No
Plenum (Y/N): 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 (%)	No

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	

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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
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	CE	#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"

Revision Date: 01-15-2014 Revision Number: 4

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).