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1-800-Belden1



General Description:

M17/151 type, 29 AWG solid .011" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	29	Solid	SPCCS - Silver Plated Copper Covered Steel	0.2794

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	0.8636

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: 1.194 mm

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: 4.465 Kg/Km

Max. Recommended Pulling Tension: 88.964 N

Min. Bend/Installation: 3.175 mm

Min. Flexing Radius: 0.953 cm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification: UL Style 10245 (30 V 105°C)

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

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:	M17/151

Flame Test

Other Flame Test:	Horizontal Wire
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.22967

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
96.7895

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/m)
4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
672.605

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
26.248

Maximum VSWR:

Freq. (MHz)	Max. VSWR
500	1.16:1
1000	1.17:1
3000	1.20:1
5000	1.24:1
10000	1.33:1
15000	1.41:1
18000	1.50:1
20000	1.50:1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
500	82.025
1000	120.413

METRIC MEASUREMENT VERSION

1674A Coax - 50 Ohm Microwave Cable

2000	176.518
3000	220.811
5000	292.665
7000	352.708
10000	429.483
15000	537.428
18000	594.189
20000	629.952

Max. Power Rating:

Freq. (MHz)	Rating (W)
500	45
1000	31
2000	22
3000	18
5000	13
7000	11
10000	9.3
15000	7.6
18000	6.9
20000	6.5

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 10245)

Max. Operating Voltage - Non-UL:

Voltage
1000 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
1674A TIN100	30 MT	0.091 KG	TIN - COLOR		#29 TFE BRD TINNED COAX
1674A TIN1000	305 MT	1.814 KG	TIN - COLOR		#29 TFE BRD TINNED COAX
1674A TIN50	15 MT	0.045 KG	TIN - COLOR		#29 TFE BRD TINNED COAX
1674A TIN500	152 MT	0.907 KG	TIN - COLOR		#29 TFE BRD TINNED COAX

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