

1674B

Part Number: 1674B

50 Ohm Microwave Cable



Product Description

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

Product Specifications

Conductor

Total Number of Conductors:	1
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Technical Specifications

APAC Standard

Mil Order #39 (China RoHS):	Yes
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Bend Radius

Min Bend Radius (Overall):	0.5 in
Min Bend Radius/Installation:	0.125 in
Min Flexing Radius:	0.375 in

CCB-Part Number

Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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CCB-Sub-Part Number

Plenum (Y/N):	No
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Connectors

Suggested Connectors:	Connectors: CDI #5285-5CC and QMI #3-3697-814-10
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Contact Information

PHONE_NUM:	1-800-Belden1
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EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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Environmental Characteristics

Operating Temp Range:	-70°C To +200°C
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Suitability - Indoor:	Yes
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EU Directive

EU CE Mark:	Yes
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EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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RG Type:	M17/151
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UL AWM Style:	UL Style 10245 (30 V 105°C)
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Safety

Other Flammability:	Horizontal Wire
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Temperature Range

Non-UL Temp Rating:	200°C
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UL Temp Rating:	105°C (UL AWM Style 10245)
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Use

Suitability - Outdoor:	Yes
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Max Recommended Pulling Tension:	20 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm

Inductance:

Nominal Inductance

0.07 μ H/ft

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
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81.2 Ohm/1000ft	8 Ohm/1000ft
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Power Rating:

Frequency [MHz]	Max. Power Rating [W]
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500 MHz	45 W
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1,000 MHz	31 W
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2,000 MHz	22 W
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3,000 MHz	18 W
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5,000 MHz	13 W
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7,000 MHz	11 W
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10,000 MHz	9.3 W
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15,000 MHz	7.6 W
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18,000 MHz	6.9 W
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20,000 MHz	6.5 W
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Delay:

Nominal Delay	Nominal Velocity of Propagation (VP)
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1.46 ns/ft	69.5 %
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Voltage:

Non-UL Voltage Rating	UL Voltage Rating
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1000V RMS	30V RMS (UL AWM Style 10245)
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VSWR:

Frequency [MHz]	Max. VSWR
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500 MHz	1.16:1
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1000 MHz	1.17:1
3000 MHz	1.20:1
5000 MHz	1.24:1
10000 MHz	1.33:1
15000 MHz	1.41:1
18000 MHz	1.50:1
20000 MHz	1.50:1

Capacitance:

Nominal Capacitance Conductor to Shield	
29.5 pF/ft	

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
500 MHz	25 db/100ft
1000 MHz	36.7 db/100ft
2000 MHz	53.8 db/100ft
3000 MHz	67.3 db/100ft
5000 MHz	89.2 db/100ft
7000 MHz	107.5 db/100ft
10000 MHz	130.9 db/100ft
15000 MHz	163.8 db/100ft
18000 MHz	181.1 db/100ft
20000 MHz	192 db/100ft

Insulation:

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.034 in

Outerjacket 1:

Material	Nominal Diameter
Unjacketed	0.047 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
29	Solid	SPC - Silver Plated Copper	0.011 in	1

Outershield 1:

Type	Layer	Material	Coverage
Tape	1	Copper Foil	100 %
Braid	2	Tin-Filled Composite	100 %

Product Variants

Part Number	Color	Put-Up Type	Length
1674B TIN500	TIN	Reel	500 ft

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