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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. (in.) |
|--------|-----|-----------|--|------------|
| 1      | 29  | Solid     | SPCCS - Silver Plated Copper Covered Steel | .011       |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material       | Dia. (in.) |
|-----------------------|---------------------------|------------|
| Teflon®               | TFE - Tetrafluoroethylene | .034       |

### 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: 0.047 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:                | 3 lbs/1000 ft.             |
| Max. Recommended Pulling Tension: | 20 lbs.                    |
| Min. Bend/Installation:           | 0.125 in.                  |
| Min. Flexing Radius:              | 0.375 in.                  |

## 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

### 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)

205.0

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

8

### 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/100 ft.) |
|-------------|--------------------------|
| 500         | 25.0                     |
| 1000        | 36.7                     |
| 2000        | 53.8                     |
| 3000        | 67.3                     |
| 5000        | 89.2                     |
| 7000        | 107.5                    |
| 10000       | 130.9                    |
| 15000       | 163.8                    |
| 18000       | 181.1                    |
| 20000       | 192.0                    |

### 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:**

|                               |
|-------------------------------|
| <b>Voltage</b>                |
| 30 V RMS (UL AWM Style 10245) |

**Max. Operating Voltage - Non-UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 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  | 100 FT   | 0.200 LB    | TIN - COLOR |       | #29 TFE BRD TINNED COAX |
| 1674A TIN1000 | 1,000 FT | 4.000 LB    | TIN - COLOR |       | #29 TFE BRD TINNED COAX |
| 1674A TIN50   | 50 FT    | 0.100 LB    | TIN - COLOR |       | #29 TFE BRD TINNED COAX |
| 1674A TIN500  | 500 FT   | 2.000 LB    | TIN - COLOR |       | #29 TFE BRD TINNED COAX |

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