



**Product:** [8216](#) 

50 Ohm Wireless Transmission Coax, RG-174, 26 AWG Str BCCS, 90% TC Braid, PVC Jkt

### Product Description

50 Ohm Wireless Transmission Coax, RG-174, 26 AWG (7x34) Bare Copper Covered Steel Conductor , PE Insulation, 90% Tinned Copper Braid Shield, PVC Jacket

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification) |
|------------------------|--|

#### Construction Details

|          |     |
|----------|-----|
| RG Type: | 174 |
|----------|-----|

#### Conductor

| AWG | Stranding | Nom. Diameter | Material                         |
|-----|-----------|---------------|----------------------------------|
| 26  | 7x34      | 0.019 in      | BCCS - Bare Copper Covered Steel |

#### Insulation

| Material          | Nom. Diameter |
|-------------------|---------------|
| PE - Polyethylene | 0.060 in      |

#### Outer Shield Material

| Outer Shield Type | Material           | Coverage |
|-------------------|--------------------|----------|
| Braid             | Tinned Copper (TC) | 90%      |

#### Outer Jacket Material

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.110 in      |

#### Electrical Characteristics

#### Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz     | 1.9 dB/100ft                |
| 10 MHz    | 3.3 dB/100ft                |
| 50 MHz    | 5.8 dB/100ft                |
| 100 MHz   | 8.4 dB/100ft                |
| 200 MHz   | 12.5 dB/100ft               |
| 400 MHz   | 19.0 dB/100ft               |
| 700 MHz   | 27.0 dB/100ft               |
| 900 MHz   | 31.0 dB/100ft               |
| 1000 MHz  | 34.0 dB/100ft               |

#### Power Rating

| Frequency [MHz] | Max. Power Rating [W] |
|-----------------|-----------------------|
| 1 MHz           | 976 W                 |
| 10 MHz          | 354 W                 |

|           |       |
|-----------|-------|
| 50 MHz    | 197 W |
| 100 MHz   | 161 W |
| 200 MHz   | 136 W |
| 400 MHz   | 120 W |
| 700 MHz   | 112 W |
| 900 MHz   | 109 W |
| 1,000 MHz | 108 W |

#### Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedence |
|--------------------|-----------------------|---------------------------------|----------------|
| 97 Ohm/1000ft      | 10.7 Ohm/1000ft       | 30.8 pF/ft                      | 50 Ohm         |

#### Voltage

| UL Voltage Rating  | Non-UL Voltage Rating |
|--------------------|-----------------------|
| 30 V (UL AWM 1354) | 1100 V                |

## Mechanical Characteristics

#### Temperature

| UL Rating          | Operating      |
|--------------------|----------------|
| 60°C (UL AWM 1354) | -30°C to +75°C |

#### Bend Radius

| Installation Min. |
|-------------------|
| 1.1 in            |

|                    |              |
|--------------------|--------------|
| Bulk Cable Weight: | 8 lbs/1000ft |
| Max. Pull Tension: | 20 lbs       |

## Standards and Compliance

|                                |   |
|--------------------------------|---|
| Environmental Suitability:     | Outdoor - Aerial, Indoor  |
| Sustainability:                | CA Prop 65  |
| AWM Compliance:                | 1354  |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:               | China RoHS II (GB/T 26572-2011)   |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.330 Revision Date: 08-25-2020 |
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