Belden

# Product: 9914

50 Ohm Wireless Transmission Coax, RG-8, 10 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMG

## Product Description

50 Ohm Wireless Transmission Coax, RG-8, 10 AWG Solid Bare Copper Conductor , PE Insulation, Duobond® Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMG

## 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: | 8 |

**Conductor**

| Size | Stranding | Nom. Diameter | Material |
|---|---|---|---|
| 10 AWG | Solid | 0.103 in | BC - Bare Copper |

**Insulation**

| Material | Nom. Insulation Diameter | Color Code | Notes |
|---|---|---|---|
| PE - Polyethylene (Foam) | 0.285 in (7.24 mm) | White | Gas Injected Foam |

**Outer Shield**

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
|---|---|---|---|---|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duobond® II | 100% |
| 2 | Braid | Tinned Copper (TC) | | 95% |

**Outer Jacket**

| Material | Nom. Diameter |
|---|---|
| PVC - Polyvinyl Chloride | 0.403 in (10.2 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.403 in (10.2 mm) |

### Electrical Characteristics

**VSWR**

| Frequency | Max. VSWR |
|---|---|
| 5-2250 MHz | 1.43:1 |

**Attenuation**

| Frequency | Nom. Attenuation |
|---|---|
| 5 MHz | 0.4 dB/100ft |
| 10 MHz | 0.5 dB/100ft |
| 50 MHz | 1.0 dB/100ft |
| 100 MHz | 1.4 dB/100ft |
| 200 MHz | 1.8 dB/100ft |
| 400 MHz | 2.6 dB/100ft |
| 700 MHz | 3.6 dB/100ft |
| 900 MHz | 4.1 dB/100ft |

| | |
|---|---|
| 1000 MHz | 4.4 dB/100ft |
| 1500 MHz | 5.5 dB/100ft |
| 1800 MHz | 6.1 dB/100ft |
| 2000 MHz | 6.5 dB/100ft |
| 2500 MHz | 7.5 dB/100ft |
| 3000 MHz | 8.3 dB/100ft |
| 4000 MHz | 9.9 dB/100ft |

**Power Rating**

| Frequency | Max. Power Rating |
|---|---|
| 5 MHz | 4,021 W |
| 10 MHz | 3,217 W |
| 50 MHz | 1,609 W |
| 100 MHz | 1,149 W |
| 200 MHz | 894 W |
| 400 MHz | 619 W |
| 700 MHz | 447 W |
| 1,000 MHz | 366 W |
| 1,500 MHz | 293 W |
| 2,000 MHz | 248 W |
| 2,500 MHz | 215 W |
| 3,000 MHz | 194 W |
| 4,000 MHz | 163 W |

**Electricals**

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---|---|---|---|---|
| 1.0 Ohm/1000ft | 1.3 Ohm/1000ft (4.3 Ohm/km) | 24.8 pF/ft (81.4 pF/m) | 50 Ohm | 82% |

**Voltage**

| UL Voltage Rating | Voltage Rating |
|---|---|
| 300 V (CMG), 30 V (UL AWM 1354) | 600 V |

## Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 60°C | -40°C to +80°C |

**Bend Radius**

| Installation Min. |
|---|
| 4.0 in (100 mm) |

| | |
|---|---|
| Max. Pull Tension: | 247 lbs (112 kg) |
| Bulk Cable Weight: | 105 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Aerial - Black only, When supported by messenger wire |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | CMG |
| AWM Compliance: | AWM 1354 |
| CEC / C(UL) Compliance: | CMG. |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.536 Revision Date: 02-20-2026 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---|---|---|---|---|---|
| 9914 010500 | Black | Reel | 500 ft | 612825268901 | C |
| 9914 0101000 | Black | Reel | 1,000 ft | 612825261780 | C |

| | |
|---|---|
| Footnote: | C - CRATE REEL PUT-UP. |

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