



**Product:** [9913F7](#) 

50 Ohm Wireless Transmission Coax, RG-8, 10 AWG Str BC, Foil + 90% TC Braid, PVC Jkt, Flexible

## Product Description

50 Ohm Wireless Transmission Coax, RG-8, 10 AWG (7x18) Bare Copper Conductor , PE Insulation, Foil + 90% Tinned Copper Braid Shield, PVC Jacket, Flexible

## 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 | 7x18      | 0.108 in      | BC - Bare Copper |

#### Insulation

| Material                 | Nom. Insulation Diameter | Color Code |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.284 in (7.21 mm)       | White      |

#### 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)            |                     | 90%      |

#### Outer Jacket

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.405 in (10.3 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.405 in (10.3 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### VSWR

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

#### Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 10 MHz    | 0.6 dB/100ft     |
| 50 MHz    | 1.1 dB/100ft     |
| 100 MHz   | 1.5 dB/100ft     |
| 200 MHz   | 2.0 dB/100ft     |
| 400 MHz   | 3.0 dB/100ft     |
| 700 MHz   | 4.0 dB/100ft     |
| 900 MHz   | 4.7 dB/100ft     |
| 1000 MHz  | 5.0 dB/100ft     |

|          |               |
|----------|---------------|
| 2000 MHz | 7.5 dB/100ft  |
| 2250 MHz | 8.0 dB/100ft  |
| 3000 MHz | 9.8 dB/100ft  |
| 4000 MHz | 12.1 dB/100ft |

Power Rating

| Frequency | Max. Power Rating |
|-----------|-------------------|
| 5 MHz     | 3,217 W           |
| 10 MHz    | 2,681 W           |
| 50 MHz    | 1,463 W           |
| 100 MHz   | 1,073 W           |
| 200 MHz   | 805 W             |
| 400 MHz   | 575 W             |
| 700 MHz   | 424 W             |
| 1,000 MHz | 350 W             |
| 1,500 MHz | 278 W             |
| 2,000 MHz | 237 W             |
| 3,000 MHz | 188 W             |
| 4,000 MHz | 157 W             |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR       | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 1.1 Ohm/1000ft     | 1.8 Ohm/1000ft (5.9 Ohm/km) | 22.5 pF/ft (73.8 pF/m)          | 52 Ohm                        | 85%                    |

Voltage

| Voltage Rating |
|----------------|
| 600 V          |

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Electrical Characteristics Notes: | Actual Impedance specification is 51.5 +/- 2 ohms. |
|-----------------------------------|----------------------------------------------------|

Mechanical Characteristics

Temperature

| Operating      |
|----------------|
| -40°C to +80°C |

Bend Radius

| Installation Min. |
|-------------------|
| 4 in (100 mm)     |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 210 lbs (95 kg) |
| Bulk Cable Weight: | 104 lbs/1000ft  |

Standards and Compliance

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:     | Indoor (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire                                      |
| Sustainability:                | CA Prop 65                                                                                                                       |
| CPR Compliance:                | CPR Euroclass: Eca                                                                                                               |
| 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: 0.524 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #         | Color        | Putup Type | Length   | UPC          | Footnote |
|----------------|--------------|------------|----------|--------------|----------|
| 9913F7 B59100  | Black, Matte | Reel       | 100 ft   | 612825261728 | C        |
| 9913F7 B59250  | Black, Matte | Reel       | 250 ft   | 612825261742 | C        |
| 9913F7 B59500  | Black, Matte | Reel       | 500 ft   | 612825261773 | C        |
| 9913F7 B591000 | Black, Matte | Reel       | 1,000 ft | 612825261735 | C        |

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

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