



**Product:** [7807A](#) 

50 Ohm Wireless Transmission Coax, RF 200, RG58, 17 AWG Solid BC, Foil + 95% TC Braid, PE Jkt

## Product Description

50 Ohm Wireless Transmission Coax, RF 200, RG58, 17 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® + 95% Tinned Copper Braid Shield, PE 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: | 58 |
|----------|----|

#### Conductor

| Size   | Stranding | Nom. Diameter | Material         |
|--------|-----------|---------------|------------------|
| 17 AWG | Solid     | 0.044 in      | BC - Bare Copper |

#### Insulation

| Material                 | Nom. Insulation Diameter | Color Code |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.116 in (2.95 mm)       | White      |

#### Outer Shield

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

#### Outer Jacket

| Material          | Nom. Diameter      |
|-------------------|--------------------|
| PE - Polyethylene | 0.195 in (4.95 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.195 in (4.95 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### VSWR

| Frequency    | Max. VSWR |
|--------------|-----------|
| 5 - 6000 MHz | 1.25:1    |

#### Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 5 MHz     | 0.75 dB/100ft    |
| 10 MHz    | 1.1 dB/100ft     |
| 30 MHz    | 1.6 dB/100ft     |
| 50 MHz    | 2.1 dB/100ft     |
| 150 MHz   | 3.7 dB/100ft     |
| 220 MHz   | 4.5 dB/100ft     |
| 450 MHz   | 6.5 dB/100ft     |
| 900 MHz   | 9.2 dB/100ft     |

|          |               |
|----------|---------------|
| 1500 MHz | 12 dB/100ft   |
| 1800 MHz | 13.2 dB/100ft |
| 2000 MHz | 14 dB/100ft   |
| 2500 MHz | 15.7 dB/100ft |
| 3000 MHz | 17.5 dB/100ft |
| 4500 MHz | 22 dB/100ft   |
| 5800 MHz | 25.2 dB/100ft |
| 6000 MHz | 26 dB/100ft   |

Power Rating

| Frequency | Max. Power Rating |
|-----------|-------------------|
| 30 MHz    | 1,070 W           |
| 50 MHz    | 813 W             |
| 150 MHz   | 450 W             |
| 220 MHz   | 372 W             |
| 450 MHz   | 256 W             |
| 900 MHz   | 178 W             |
| 1,500 MHz | 136 W             |
| 2,000 MHz | 117 W             |
| 2,500 MHz | 104 W             |
| 3,500 MHz | 87 W              |
| 4,500 MHz | 76 W              |
| 6,000 MHz | 66 W              |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR      | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|----------------------------|---------------------------------|-------------------------------|------------------------|
| 5.4 Ohm/1000ft     | 3.6 Ohm/1000ft (12 Ohm/km) | 23.5 pF/ft (77.1 pF/m)          | 50 Ohm                        | 85%                    |

Voltage

| Voltage Rating |
|----------------|
| 300 V          |

Mechanical Characteristics

Temperature

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

Bend Radius

| Installation Min. |
|-------------------|
| 1.9 in (48 mm)    |

|                    |                    |
|--------------------|--------------------|
| Max. Pull Tension: | 25.4 lbs (11.5 kg) |
| Bulk Cable Weight: | 26 lbs/1000ft      |

Standards and Compliance

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:     | Indoor/Outdoor, Indoor, Aerial - Black only, When supported by messenger wire                                                    |
| Sustainability:                | CA Prop 65                                                                                                                       |
| 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) |
| APAC Compliance:               | China RoHS II (GB/T 26572-2011)                                                                                                  |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.487 Revision Date: 02-20-2026 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC          | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 7807A 010500  | Black | Reel       | 500 ft   | 612825189640 | C        |
| 7807A 0101000 | Black | Reel       | 1,000 ft | 612825189633 | C        |

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

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