



**Product:** [8259](#)

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Str TC, 95% TC Braid, PVC Jkt

**Product Description**

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG (19x33) Tinned Copper Conductor , PE Insulation, 95% 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: | 58 |
|----------|----|

**Conductor**

| Size   | Stranding | Nom. Diameter | Material           |
|--------|-----------|---------------|--------------------|
| 20 AWG | 19x33     | 0.035 in      | TC - Tinned Copper |

**Insulation**

| Material          | Nom. Insulation Diameter | Color Code |
|-------------------|--------------------------|------------|
| PE - Polyethylene | 0.117 in (2.97 mm)       | White      |

**Outer Shield**

| Outer Shield Type | Material           | Coverage |
|-------------------|--------------------|----------|
| Braid             | Tinned Copper (TC) | 95%      |

**Outer Jacket**

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.193 in (4.90 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.193 in (4.90 mm) |
|-----------------------------------|--------------------|

**Electrical Characteristics**

**Attenuation**

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz     | 0.4 dB/100ft     |
| 10 MHz    | 1.5 dB/100ft     |
| 50 MHz    | 3.7 dB/100ft     |
| 100 MHz   | 5.4 dB/100ft     |
| 200 MHz   | 8.1 dB/100ft     |
| 400 MHz   | 12.4 dB/100ft    |
| 700 MHz   | 17.7 dB/100ft    |
| 900 MHz   | 21.1 dB/100ft    |
| 1000 MHz  | 22.8 dB/100ft    |

**Electricals**

| Nom. Conductor DCR         | Nom. Outer Shield DCR      | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|----------------------------|---------------------------------|-------------------------------|------------------------|
| 9.7 Ohm/1000ft (32 Ohm/km) | 3.8 Ohm/1000ft (12 Ohm/km) | 30.8 pF/ft (101 pF/m)           | 50 Ohm                        | 66%                    |

Voltage

| Voltage Rating |
|----------------|
| 1900 V         |

Mechanical Characteristics

Temperature

| Operating      |
|----------------|
| -30°C to +75°C |

Bend Radius

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

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 42 lbs (19 kg) |
| Bulk Cable Weight: | 25 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; CPR UKCA Class: 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: 0.530 Revision Date: 04-29-2024 |
|----------------------|--|

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC          | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 8259 010100   | Black | Reel       | 100 ft   | 612825197379 |          |
| 8259 010500   | Black | Reel       | 500 ft   | 612825197393 | C        |
| 8259 010U500  | Black | UnReel     | 500 ft   | 612825357636 |          |
| 8259 0101000  | Black | Reel       | 1,000 ft | 612825197386 | C        |
| 8259 010U1000 | Black | UnReel     | 1,000 ft | 612825197355 |          |
| 8259 0105000  | Black | Reel       | 5,000 ft | 612825197348 | C        |

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