



Product: [88240](#) 

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Solid BC, 95% TC Braid, FEP Jkt, CMP

Product Description

50 Ohm Wireless Transmission Coax, RG-58, 20 AWG Solid Bare Copper Conductor , FEP Insulation, 95% Tinned Copper Braid Shield, FEP Jacket, CMP

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

| AWG | Stranding | Nom. Diameter | Material         |
|-----|-----------|---------------|------------------|
| 20  | Solid     | 0.032 in      | BC - Bare Copper |

Insulation

| Material                             | Nom. Diameter |
|--------------------------------------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.107 in      |

Outer Shield

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

Outer Jacket

| Material                             | Nom. Diameter |
|--------------------------------------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.159 in      |

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz     | 0.5 dB/100ft                |
| 10 MHz    | 1.2 dB/100ft                |
| 50 MHz    | 3.0 dB/100ft                |
| 100 MHz   | 4.3 dB/100ft                |
| 200 MHz   | 6.4 dB/100ft                |
| 400 MHz   | 9.7 dB/100ft                |
| 700 MHz   | 13.7 dB/100ft               |
| 900 MHz   | 16.1 dB/100ft               |
| 1000 MHz  | 17.3 dB/100ft               |

Power Rating

| Frequency [MHz] | Max. Power Rating [W] |
|-----------------|-----------------------|
| 1 MHz           | 4,799 W               |
| 10 MHz          | 1,937 W               |
| 50 MHz          | 782 W                 |

|           |       |
|-----------|-------|
| 100 MHz   | 542 W |
| 200 MHz   | 370 W |
| 400 MHz   | 249 W |
| 700 MHz   | 178 W |
| 900 MHz   | 153 W |
| 1,000 MHz | 143 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|-------------------------------|---------------|
| 10.1 Ohm/1000ft    | 3.8 Ohm/1000ft        | 27.4 pF/ft                      | 53 Ohm                        | 70%           |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP)       |

Mechanical Characteristics

Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 200°C          | -70°C to +200°C |

Bend Radius

| Installation Min. |
|-------------------|
| 1.6 in            |

|                    |               |
|--------------------|---------------|
| Bulk Cable Weight: | 26 lbs/1000ft |
| Max. Pull Tension: | 39 lbs        |

Standards and Compliance

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - Plenum, Indoor, Outdoor, UV Resistance                                                                                  |
| Sustainability:                  | CA Prop 65                                                                                                                       |
| Flammability / Reaction to Fire: | NFPA 262                                                                                                                         |
| NEC / UL Compliance:             | CMP                                                                                                                              |
| CEC / C(UL) Compliance:          | CMP                                                                                                                              |
| 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)                                                                                                  |
| Non-Plenum Number:               | 8240                                                                                                                             |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.354 Revision Date: 10-13-2021 |
|----------------------|--------------------------------------------------|

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