


Product: [88281](#) 

Precision Video Coax, RG59, #20 Solid BC, Double 98% TC/BC Braid



Product Description

20 AWG solid .032" bare copper conductor, plenum, FEP insulation, tinned copper braid shields (95% coverage), fluorocopolymer jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20 | Solid | BC - Bare Copper | 0.032 in | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Material | Nominal Diameter |
|--------------------------------------|------------------|
| FEP - Fluorinated Ethylene Propylene | 0.185 in |

Outer Shield Material

| Type | Layer | Material | Coverage [%] |
|-------|-------|--------------------|--------------|
| Braid | 1 | TC - Tinned Copper | 95 % |
| Braid | 2 | TC - Tinned Copper | 95 % |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------------|------------------|
| PVDF - Polyvinylidene Fluoride | 0.271 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--|--------------------------|---------------------|
| 9.9 Ohm/1000ft | 9.9 Ohm/1000ft | 1.1 Ohm/1000ft | 1.1 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 19 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.125 µH/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5-216 MHz | 27 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.2 dB/100ft |
| 3.6 MHz | 0.5 dB/100ft |
| 10 MHz | 0.8 dB/100ft |
| 71.5 MHz | 2.3 dB/100ft |
| 135 MHz | 3.3 dB/100ft |
| 270 MHz | 5.1 dB/100ft |
| 360 MHz | 6.1 dB/100ft |
| 540 MHz | 8 dB/100ft |
| 720 MHz | 9.7 dB/100ft |
| 750 MHz | 10 dB/100ft |
| 1000 MHz | 12.3 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.43 ns/ft | 70 % |

Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 2900 V RMS | 300 V RMS |

Temperature Range

| | |
|-----------------------|-----------------|
| UL Temp Rating: | 150°C |
| Operating Temp Range: | -20°C To +150°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 82 lbs/1000ft |
| Max Recommended Pulling Tension: | 168 lbs |
| Min Bend Radius/Minor Axis: | 2.75 in |

Standards

| | |
|--------------------------|-----------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| RG Type: | 59/U Type |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| Environmental Space: | Outdoor - Direct Burial |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------|--|
| Suitability - Aerial: | Yes - When supported by messenger wire |
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-----------|
| UL Flammability: | NFPA 262 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 8281

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 88281 010500 | Black | Reel | 500 ft | 612825218302 |
| 88281 0101000 | Black | Reel | 1,000 ft | 612825216964 |

Footnote: C - CRATE REEL PUT-UP.

History

Update and Revision: Revision Number: 0.275 Revision Date: 04-28-2020

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