



Product: 8212 ☑

Analog Video, RG59, #20 Solid BCCS, 95% BC Braid, PE Jacket

Product Description

20 AWG solid .032" bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), polyethylene jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor AWG Stranding Material Nominal Diameter No. of Coax Solid BCCS - Bare Copper Covered Steel 0.032 in Conductor Count: Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.143 in |

Outer Shield

| Type | Material | Coverage [%] | |
|-------|------------------|--------------|--|
| Braid | Bare Copper (BC) | 95% | |

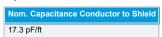
Outer Jacket

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.242 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|--------------------------|--|--------------------------|---------------------|
| 44.5 Ohm/1000ft | 44.5 Ohm/1000ft | 2.6 Ohm/1000ft | 2.6 Ohm/1000ft |



Inductance

Nominal Inductanc 0.097 µH/ft

Impedance

Nominal Characteristic Impedance 75 Ohm

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5-450 MHz | 23 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.6 dB/100ft |
| 10 MHz | 1 dB/100ft |
| 50 MHz | 2.1 dB/100ft |
| 100 MHz | 3 dB/100ft |
| 200 MHz | 4.5 dB/100ft |
| 400 MHz | 6.6 dB/100ft |
| 700 MHz | 8.9 dB/100ft |
| 900 MHz | 10.1 dB/100ft |
| 1000 MHz | 10.9 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.3 ns/ft | 78% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 400 MHz | 6.9 dB/100ft |

Voltage

Non-UL Voltage Rating 300 V RMS

Temperature Range

| Non-UL Temp Rating: | 80°C |
|------------------------------|----------------|
| Operating Temperature Range: | -55°C To +80°C |

Mechanical Characteristics

| Bulk Cable Weight: | 30 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension: | 107 lbs |
| Min. Bend Radius/Minor Axis: | 2.5 in |

Standards

| CPR Euroclass: | Fca |
|----------------|-----|
| RG Type: | 59 |
| Series Type: | 59 |

Applicable Environmental and Other Programs

| Environmental Space: | Outdoor |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Plenum/Non-Plenum

Related Part Numbers

Variants

| 8212 010500 | Black | Reel | 500 ft | 612825355571 |
|---------------|-------|--------|----------|--------------|
| 8212 010U500 | Black | UnReel | 500 ft | 612825196150 |
| 8212 0101000 | Black | Reel | 1,000 ft | 612825358671 |
| 8212 010U1000 | Black | UnReel | 1,000 ft | 612825355564 |

Footnote: C - CRATE REEL PUT-UP.

History

| Update and Revision: | Revision Number: 0.345 Revision Date: 04-29-2024 | | | |
|----------------------|--|--|--|--|

© 2024 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.