



Product: [1617R](#)

CATV Video, RG11, 14 AWG BCCS, Quad Shield, CMR



Product Description

Series 11, 14 AWG solid .064" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (Foil + 60% Braid + Foil + 40% Braid), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |           |                                  |                  |             |
|------------------|-----------|----------------------------------|------------------|-------------|
| AWG              | Stranding | Material                         | Nominal Diameter | No. of Coax |
| 14               | Solid     | BCCS - Bare Copper Covered Steel | 0.064 in         | 1           |
| Conductor Count: |           |                                  | 1                |             |

| Insulation                |                  |
|---------------------------|------------------|
| Material                  | Nominal Diameter |
| PE - Polyethylene (Foam)  | 0.28 in          |
| Table Notes: Gas Injected |                  |

| Outer Shield |       |                               |                     |              |
|--------------|-------|-------------------------------|---------------------|--------------|
| Type         | Layer | Material                      | Material Trade Name | Coverage [%] |
| Tape         | 1     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid        | 2     | Aluminum                      |                     | 60%          |
| Tape         | 3     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid        | 4     | Aluminum                      |                     | 40%          |

| Outer Jacket             |                  |
|--------------------------|------------------|
| Material                 | Nominal Diameter |
| PVC - Polyvinyl Chloride | 0.407 in         |

Electrical Characteristics

| Conductor DCR         |                          |                     |
|-----------------------|--------------------------|---------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
| 11 Ohm/1000ft         | 3 Ohm/1000ft             | 3 Ohm/1000ft        |

| Capacitance                          |
|--------------------------------------|
| Nom. Capacitance Conductor to Shield |
| 16.2 pF/ft                           |

| Inductance         |
|--------------------|
| Nominal Inductance |
| 0.097 µH/ft        |

| Impedance                        |                                  |
|----------------------------------|----------------------------------|
| Nominal Characteristic Impedance | Nominal Characteristic Tolerance |
| 75 Ohm                           | ± 3 Ohm                          |

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 5 - 1000 MHz    | 20 dB                             |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.2 ns/ft     | 83%                                      |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 5 MHz           | 0.38 dB/100ft                     |
| 55 MHz          | 0.96 dB/100ft                     |
| 211 MHz         | 1.9 dB/100ft                      |
| 270 MHz         | 2.13 dB/100ft                     |
| 300 MHz         | 2.25 dB/100ft                     |
| 350 MHz         | 2.42 dB/100ft                     |
| 400 MHz         | 2.6 dB/100ft                      |
| 450 MHz         | 2.75 dB/100ft                     |
| 550 MHz         | 3.04 dB/100ft                     |
| 750 MHz         | 3.65 dB/100ft                     |
| 870 MHz         | 4.06 dB/100ft                     |
| 1000 MHz        | 4.35 dB/100ft                     |

Voltage

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

Temperature Range

|                              |                |
|------------------------------|----------------|
| UL Temp Rating:              | 80°C           |
| Operating Temperature Range: | -40°C To +80°C |

Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 59 lbs/1000ft |
| Max. Pull Tension:           | 308 lbs       |
| Min. Bend Radius/Minor Axis: | 4.5 in        |

Standards

|                       |            |
|-----------------------|------------|
| NEC/(UL) Compliance:  | CATVR, CMR |
| CEC/C(UL) Compliance: | CMG        |
| RG Type:              | 11         |
| Series Type:          | 11         |

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Environmental Space:                         | Indoor - Riser                |
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/96/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 - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                    |              |
|--------------------|--------------|
| UL Flammability:   | UL1666 Riser |
| UL voltage rating: | 300 V RMS    |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item #        | Color | Put-Up Type | Length   | UPC          |
|---------------|-------|-------------|----------|--------------|
| 1617R 0101000 | Black | Reel        | 1,000 ft | 612825119272 |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.206 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.