


**Product:** [1618A](#) 

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



### 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), polyethylene 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%          |

|              |            |
|--------------|------------|
| Table Notes: | CoreGuard® |
|--------------|------------|

##### Outer Jacket

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 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 |
|----------------------------------|
| 75 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 |
|-----------------------|
| 300 V RMS             |

#### Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -55°C To +80°C |
|-----------------------|----------------|

#### Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 52 lbs/1000ft |
| Max. Pull Tension:           | 308 lbs       |
| Min. Bend Radius/Minor Axis: | 4.25 in       |

#### Standards

|              |    |
|--------------|----|
| RG Type:     | 11 |
| Series Type: | 11 |

#### Applicable Environmental and Other Programs

|  |                               |
|--|-------------------------------|
| Environmental Space:                         | Outdoor - Water Exposure      |
| 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 - Burial:  | Yes |
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | Yes |

#### Plenum/Non-Plenum

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

#### Related Part Numbers

#### Variants

| Item #        | Color  | Put-Up Type | Length   | UPC          |
|---------------|--------|-------------|----------|--------------|
| 1618A 0101000 | Black  | Reel        | 1,000 ft | 612825119296 |
| 1618A 0031000 | Orange | Reel        | 1,000 ft | 612825119289 |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.381 Revision Date: 12-15-2021 |
|----------------------|--|

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