


**Product:** [1613B](#) 

CATV Video, RG6, 18 AWG BCCS, Tri Shield, CM PVC Jacket



### Product Description

CATV, Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® III, aluminum braid shield (77% coverage), CM PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

| AWG | Stranding | Material                         | Nominal Diameter | No. of Coax |
|-----|-----------|----------------------------------|------------------|-------------|
| 18  | Solid     | BCCS - Bare Copper Covered Steel | 0.04 in          | 1           |

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

##### Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.18 in          |

|              |              |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

##### Outer Shield

| Type  | Description      | Layer | Material                      | Material Trade Name | Coverage [%] |
|-------|------------------|-------|-------------------------------|---------------------|--------------|
| Tape  |                  | 1     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid |                  | 2     | Aluminum                      |                     | 77%          |
| Tape  | Bonded to jacket | 3     | Tri-Laminate (Alum+Poly+Alum) | Beldfoil®           | 100%         |

##### Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.275 in         |

#### Electrical Characteristics

##### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 28 Ohm/1000ft         | 5.6 Ohm/1000ft           | 5.6 Ohm/1000ft      |

##### Capacitance

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

##### Inductance

| Nominal Inductance |
|--------------------|
| 0.097 $\mu$ H/ft   |

##### Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Tolerance |
|----------------------------------|----------------------------------|
| 75 Ohm                           | $\pm$ 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           | 0.58 dB/100ft                     |
| 55 MHz          | 1.60 dB/100ft                     |
| 211 MHz         | 3.05 dB/100ft                     |
| 270 MHz         | 3.37 dB/100ft                     |
| 300 MHz         | 3.55 dB/100ft                     |
| 350 MHz         | 3.85 dB/100ft                     |
| 400 MHz         | 4.15 dB/100ft                     |
| 450 MHz         | 4.40 dB/100ft                     |
| 550 MHz         | 4.90 dB/100ft                     |
| 750 MHz         | 5.65 dB/100ft                     |
| 870 MHz         | 6.11 dB/100ft                     |
| 1000 MHz        | 6.55 dB/100ft                     |

#### Voltage

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

#### Temperature Range

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

#### Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 30 lbs/1000ft |
| Max. Pull Tension:           | 138 lbs       |
| Min. Bend Radius/Minor Axis: | 3 in          |

#### Standards

|                       |               |
|-----------------------|---------------|
| CEC/C(UL) Compliance: | CM            |
| RG Type:              | 6             |
| Series Type:          | 6             |
| Other Specification:  | CEC/C(UL); CM |

#### Applicable Environmental and Other Programs

|  |                               |
|--|-------------------------------|
| Environmental Space:                         | Indoor (Not Riser or Plenum)  |
| 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:                                  | Yes                           |
| MII Order #39 (China RoHS):                  | Yes                           |

#### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

#### Flammability, LS0H, Toxicity Testing

|                    |                   |
|--------------------|-------------------|
| UL Flammability:   | UL1685 UL Loading |
| UL voltage rating: | 300 V RMS         |

#### Plenum/Non-Plenum