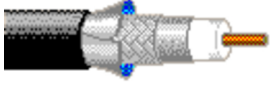




Product: [1613A](#)

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  | Layer | Material                      | Material Trade Name | Coverage [%] |
|-------|-------|-------------------------------|---------------------|--------------|
| Tape  | 1     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid | 2     | Aluminum                      |                     | 77%          |
| Tape  | 3     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 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 - 1002 MHz    | 20 dB                             |
| 1002 - 2250 MHz | 15 dB                             |
| 2250 - 3000 MHz | 10 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                     |
| 1450 MHz        | 8 dB/100ft                        |
| 1800 MHz        | 8.80 dB/100ft                     |
| 2250 MHz        | 10.0 dB/100ft                     |
| 3000 MHz        | 11.9 dB/100ft                     |

#### Voltage

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

#### Temperature Range

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

#### Mechanical Characteristics

|                              |                  |
|------------------------------|------------------|
| UV Resistance:               | Yes - Black only |
| Bulk Cable Weight:           | 28 lbs/1000ft    |
| Max. Pull Tension:           | 138 lbs          |
| Min. Bend Radius/Minor Axis: | 3 in             |

#### Standards

|                       |          |
|-----------------------|----------|
| NEC/(UL) Compliance:  | CATV, CM |
| CEC/C(UL) Compliance: | CM       |
| CPR Euroclass:        | Eca      |
| RG Type:              | 6        |
| Series Type:          | 6        |

#### Applicable Environmental and Other Programs

|  |  |
|--|--|
| Environmental Space:                         | Indoor (Not Riser or Plenum), Indoor/Outdoor |
| 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              |
| Suitability - Outdoor: | Yes - Black only |

## Flammability, LSOH, Toxicity Testing

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

## Plenum/Non-Plenum

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

## Related Part Numbers

### Variants

| Item #         | Color          | Put-Up Type | Length   | UPC          |
|----------------|----------------|-------------|----------|--------------|
| 1613A 0101000  | Black          | Reel        | 1,000 ft | 612825119098 |
| 1613A 010A1000 | Black          | Reel-in-Box | 1,000 ft | 612825119074 |
| 1613A 010U1000 | Black          | UnReel      | 1,000 ft | 612825119081 |
| 1613A 0091000  | White          | Reel        | 1,000 ft | 612825119067 |
| 1613A 009A1000 | White          | Reel-in-Box | 1,000 ft | 612825119043 |
| 1613A 009U1000 | White          | UnReel      | 1,000 ft | 612825119050 |
| 1613A Q5HU1000 | White, Neutral | UnReel      | 1,000 ft | 612825119036 |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.461 Revision Date: 04-14-2023 |
|----------------------|--|

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