


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 μ 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 Temp 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 |
| 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, LS0H, 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

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| Update and Revision: | Revision Number: 0.378 Revision Date: 12-15-2021 |
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