



Product: [9116](#)

CATV Video, RG6, #18 BCCS, Foil + 60% Braid, CM

Product Description

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II, aluminum braid shield (60% coverage), PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|-----------------|
| Suitable Applications: | CATV, Broadband |
|------------------------|-----------------|

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 Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------------------------|--------------|
| Tape | 1 | Alum / Poly / Alum | Bonded Dufoil® (Bonded to Dielectric) | 100% |
| Braid | 2 | Aluminum | | 60% |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.27 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 28 Ohm/1000ft | 9 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 - 1000 MHz | 20 dB |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.22 ns/ft | 83% |

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 5 MHz | 0.58 dB/100ft |
| 55 MHz | 1.60 dB/100ft |
| 211 MHz | 3.05 dB/100ft |
| 250 MHz | 3.30 dB/100ft |
| 270 MHz | 3.37 dB/100ft |
| 300 MHz | 3.55 dB/100ft |
| 330 MHz | 3.74 dB/100ft |
| 350 MHz | 3.85 dB/100ft |
| 400 MHz | 4.15 dB/100ft |
| 450 MHz | 4.40 dB/100ft |
| 500 MHz | 4.66 dB/100ft |
| 550 MHz | 4.90 dB/100ft |
| 600 MHz | 5.10 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

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

Mechanical Characteristics

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|-----------------------------|---------------|
| UV Resistance: | Yes |
| Bulk Cable Weight: | 27 lbs/1000ft |
| Max. Pull Tension: | 126 lbs |
| Min Bend Radius/Minor Axis: | 2.75 in |

Standards

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

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 II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

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|-----------------------|--|
| Suitability - Aerial: | Yes - Black only, when supported by messenger wire |
| Suitability - Burial: | No |

| | |
|------------------------------------|------------------|
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black only |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|-----------------------|
| UL Flammability: | UL1581 Vertical Flame |
| CSA Flammability: | FT1 |
| IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 9116P |

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC/EAN |
|---------------|----------------|---------------------|----------|---------------|
| 9116 290U1000 | Beige, Light | UnReel | 1,000 ft | 612825224389 |
| 9116-0101000 | Black | Reel | 305 m | 8719605020123 |
| 9116-K101000 | Black | Reel | 305 m | 8719605020154 |
| 9116 010500 | Black | Reel | 500 ft | 612825224426 |
| 9116 010U500 | Black | UnReel | 500 ft | 612825224457 |
| 9116 010S700 | Black | Reel | 700 ft | 612825348313 |
| 9116 0101000 | Black | Reel | 1,000 ft | 612825224440 |
| 9116 010U1000 | Black | UnReel | 1,000 ft | 612825348320 |
| 9116 010N1000 | Black | Reel w/Small Barrel | 1,000 ft | 612825224433 |
| 9116 009500 | White | Reel | 500 ft | 612825224396 |
| 9116 0091000 | White | Reel | 1,000 ft | 612825224419 |
| 9116 009U1000 | White | UnReel | 1,000 ft | 612825348337 |
| 9116 009N1000 | White | Reel w/Small Barrel | 1,000 ft | 612825224402 |
| 9116 Q5H1000 | White, Neutral | Reel | 1,000 ft | 612825224372 |
| 9116 Q5HU1000 | White, Neutral | UnReel | 1,000 ft | 612825224488 |

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

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| Notes: | Print legend includes sequential footage marks. |
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History

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| Update and Revision: | Revision Number: 0.298 Revision Date: 04-28-2020 |
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