



Part Number: 8241

Analog Video, RG59, 23 AWG Solid BCCS, 95% BC Braid, PVC Jacket, CM

Product Description

23 AWG Solid .023" bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

Technical Specifications

| | |
|----------------------|------------------|
| Environmental Space: | Outdoor - Aerial |
|----------------------|------------------|

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|----------------------------------|------------------|-------------|
| 23 | Solid | BCCS - Bare Copper Covered Steel | 0.023 in | 1 |

| | |
|------------------|--------|
| Conductor Count: | 1 |
| Conductor Size: | 23 AWG |

Insulation

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.146 in |

Outer Shield Material

| Type | Material | Coverage [%] |
|-------|------------------|--------------|
| Braid | BC - Bare Copper | 95 % |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.24 in |

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 49 Ohm/1000ft | 2.6 Ohm/1000ft | 2.6 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 20.5 pF/ft |

| | |
|------------|----------|
| Shielding: | Braid(s) |
|------------|----------|

Inductance

| Nominal Inductance |
|--------------------|
| 0.131 μ H/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.6 dB/100ft |
| 10 MHz | 1.1 dB/100ft |
| 50 MHz | 2.4 dB/100ft |
| 100 MHz | 3.4 dB/100ft |
| 200 MHz | 4.9 dB/100ft |
| 400 MHz | 7 dB/100ft |

| | |
|----------|---------------|
| 700 MHz | 9.7 dB/100ft |
| 900 MHz | 11.1 dB/100ft |
| 1000 MHz | 12 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.54 ns/ft | 66 % |

Power Rating

| Frequency [MHz] | Max. Power Rating [W] | Nominal Power Rating [W] |
|-----------------|-----------------------|--------------------------|
| 50 MHz | 470 W | 470 W |
| 100 MHz | 310 W | 310 W |
| 300 MHz | 160 W | 160 W |
| 500 MHz | 115 W | 115 W |
| 1,000 MHz | 76 W | 76 W |

Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------------------------|
| 1700 V RMS | 30 V RMS (AWM 1354), 300 V RMS (CM) |
| | 30 V RMS |

| | |
|---------------------------------------|--|
| UL Temp Rating: | 75°C |
| Operating Temp Range: | -40°C To +75°C |
| Bulk Cable Weight: | 37 lbs/1000ft |
| Max Recommended Pulling Tension: | 62 lbs |
| Min Bend Radius/Minor Axis: | 2.5 in |
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CM |
| UL AWM Style: | UL Style 1354 |
| CPR Euroclass: | Eca |
| RG Type: | 59/U Type |
| 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 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| 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 |
| UL Flammability: | UL1685 UL Loading |
| UL voltage rating: | 30 V RMS (UL AWM Style 1354), 300 V RMS (UL CM) |
| Plenum (Y/N): | No |
| Plenum Number: | 88241, 82241 |

Part Number

Variants

| Item # | Color | Footnote |
|---------------|-------|----------|
| 8241 010100 | Black | |
| 8241 0101000 | Black | C |
| 8241 0102000 | Black | C |
| 8241 010500 | Black | C |
| 8241 0105000 | Black | C |
| 8241 010U1000 | Black | |
| 8241 010U500 | Black | |

| | | |
|---------------|-------------|--|
| 8241 006U1000 | Blue, Light | |
| 8241 005U1000 | Green, Dark | |
| 8241 003U1000 | Orange | |
| 8241 002U1000 | Red | |
| 8241 009U1000 | White | |
| 8241 004U1000 | Yellow | |

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