


Product: [8241B](#) 

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



Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

Conductor Count: 1

Insulation

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

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.242 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------------------------|--------------------------|---------------------|
| 20.4 Ohm/1000ft | 20.4 Ohm/1000ft | 2.9 Ohm/1000ft | 2.9 Ohm/1000ft |

Capacitance

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

Inductance

| Nominal Inductance |
|--------------------|
| 0.131 µH/ft |

Impedance

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

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.4 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 |
|---------------|
| 1.54 ns/ft |

Power Rating

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

Voltage

| Non-UL Voltage Rating | UL Voltage Rating | Voltage Rating [V] |
|-----------------------|-------------------|--------------------|
| 1700 V RMS | 300 V RMS | 30 V RMS |

| | |
|-----------------------------------|------------------------------|
| Electrical Characteristics Notes: | 30 V RMS (UL AWM Style 1354) |
|-----------------------------------|------------------------------|

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 80°C |
| Operating Temp Range: | -20°C To +80°C |

Mechanical Characteristics

| | |
|-----------------------------|---------------|
| Bulk Cable Weight: | 34 lbs/1000ft |
| Max. Pull Tension: | 62 lbs |
| Min Bend Radius/Minor Axis: | 2.5 in |

Standards

| | |
|--------------------------|---------------------------|
| NEC/(UL) Compliance: | CM |
| CEC/C(UL) Compliance: | CM |
| UL AWM Style Compliance: | UL Style 1354 (30 V 80°C) |
| RG Type: | 59/U Type |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|-------|------------|----------|--------------|
| 8241B 0101000 | Black | Reel | 1,000 ft | 612825355960 |
| 8241B 010U1000 | Black | UnReel | 1,000 ft | 612825355953 |

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

Product Notes

| | |
|--------|--------------------------------------------------------------------|
| Notes: | RG-59/U Type standard Analog Video Coax. CM Rated Version of 8241. |
|--------|--------------------------------------------------------------------|

History

| | |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.248 Revision Date: 08-25-2020 |
|----------------------|--------------------------------------------------|

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