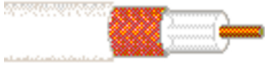




Product: [82241](#)



Analog Video, RG59, #23 Solid BCCS, 95% BC Braid, Flamarrest® Jacket, CMP

Product Description

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (95% coverage), Flamarrest® jacket.

Technical Specifications

Physical Characteristics (Overall)

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

| Insulation                           |                  |
|--------------------------------------|------------------|
| Material                             | Nominal Diameter |
| FEP - Fluorinated Ethylene Propylene | 0.134 in         |

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

| Outer Jacket             |                     |                  |
|--------------------------|---------------------|------------------|
| Material                 | Material Trade Name | Nominal Diameter |
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.19 in          |

Electrical Characteristics

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

| Capacitance                          |
|--------------------------------------|
| Nom. Capacitance Conductor to Shield |
| 19.5 pF/ft                           |

| Inductance         |
|--------------------|
| Nominal Inductance |
| 0.126 µH/ft        |

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

| High Frequency (Nominal/Typical) |                     |
|----------------------------------|---------------------|
| Frequency [MHz]                  | Nom. Insertion Loss |
| 1 MHz                            | 0.5 dB/100ft        |
| 10 MHz                           | 1 dB/100ft          |

|          |               |
|----------|---------------|
| 50 MHz   | 2.3 dB/100ft  |
| 100 MHz  | 3.3 dB/100ft  |
| 200 MHz  | 5.2 dB/100ft  |
| 400 MHz  | 8.4 dB/100ft  |
| 700 MHz  | 11.6 dB/100ft |
| 900 MHz  | 13.8 dB/100ft |
| 1000 MHz | 14.8 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.45 ns/ft    | 70%                                      |

Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 1700 V RMS            | 300 V RMS         |

Temperature Range

|                              |                |
|------------------------------|----------------|
| Non-UL Temp Rating:          | 75°C           |
| UL Temperature Rating:       | 60°C           |
| Operating Temperature Range: | -20°C To +75°C |

Mechanical Characteristics

|                                      |               |
|--------------------------------------|---------------|
| Bulk Cable Weight:                   | 34 lbs/1000ft |
| Maximum Recommended Pulling Tension: | 62 lbs        |
| Minimum Minor Axis Bend Radius:      | 2 in          |

Standards

|                       |     |
|-----------------------|-----|
| NEC/(UL) Compliance:  | CMP |
| CEC/C(UL) Compliance: | CMP |
| RG Type:              | 59  |
| Series Type:          | 59  |

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Environmental Space:                         | Indoor - Plenum               |
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/11/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:                                  | No                            |
| MII Order #39 (China RoHS):                  | Yes                           |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | NFPA 262  |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Related Part Numbers

|                    |      |
|--------------------|------|
| Non-Plenum Number: | 8241 |
|--------------------|------|

Variants

| Item #        | Color   | Put-Up Type | Length   | UPC          |
|---------------|---------|-------------|----------|--------------|
| 82241 877U500 | Natural | UnReel      | 500 ft   | 612825196495 |
| 82241 8771000 | Natural | Reel        | 1,000 ft | 612825196457 |

|                |         |        |          |              |
|----------------|---------|--------|----------|--------------|
| 82241 877U1000 | Natural | UnReel | 1,000 ft | 612825196464 |
|----------------|---------|--------|----------|--------------|

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.357 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

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