



Product: [8241](#)

75 Ohm Analog Video Coax, RG-59, 23 AWG Solid BCCS, 95% BC Braid, PVC Jkt, CM

Product Description

75 Ohm Analog Video Coax, RG-59, 23 AWG Solid Bare Copper Covered Steel Conductor , PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, CM

Technical Specifications

Product Overview

| | |
|------------------------|-----------------------|
| Suitable Applications: | Standard analog video |
|------------------------|-----------------------|

Construction Details

| | |
|----------|----|
| RG Type: | 59 |
|----------|----|

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|----------------------------------|
| 23 AWG | Solid | 0.023 in | BCCS - Bare Copper Covered Steel |

Insulation

| Material | Nom. Insulation Diameter |
|-------------------|--------------------------|
| PE - Polyethylene | 0.146 in (3.71 mm) |

Outer Shield

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

Outer Jacket

| Material | Nom. Diameter |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.240 in (6.10 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.240 in (6.10 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 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 | 7.0 dB/100ft |
| 700 MHz | 9.7 dB/100ft |
| 900 MHz | 11.1 dB/100ft |
| 1000 MHz | 12.0 dB/100ft |

Power Rating

| Frequency | Max. Power Rating |
|-----------|-------------------|
| 50 MHz | 470 W |
| 100 MHz | 310 W |

| | |
|-----------|-------|
| 300 MHz | 160 W |
| 500 MHz | 115 W |
| 1,000 MHz | 76 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 49 Ohm/1000ft (160 Ohm/km) | 2.6 Ohm/1000ft (8.5 Ohm/km) | 20.4 pF/ft (66.9 pF/m) | 75 Ohm | 66% |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|----------------|
| 75°C | -30°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 2.4 in |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 63 lbs (29 kg) |
| Bulk Cable Weight: | 37 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor/Outdoor, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 UL Loading |
| NEC / UL Compliance: | CM |
| AWM Compliance: | 1354 |
| CEC / C(UL) Compliance: | CM |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 88241, 82241 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.327 Revision Date: 12-15-2021 |
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Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------------|------------|----------|--------------|
| 8241 010100 | Black | Reel | 100 ft | 612825358695 |
| 8241 010500 | Black | Reel | 500 ft | 612825355717 |
| 8241 010U500 | Black | UnReel | 500 ft | 612825355977 |
| 8241 0101000 | Black | Reel | 1,000 ft | 612825356011 |
| 8241 010U1000 | Black | UnReel | 1,000 ft | 612825358060 |
| 8241 0102000 | Black | Reel | 2,000 ft | 612825358701 |
| 8241 0105000 | Black | Reel | 5,000 ft | 612825358640 |
| 8241 006U1000 | Blue, Light | UnReel | 1,000 ft | 612825357629 |
| 8241 005U1000 | Green, Dark | UnReel | 1,000 ft | 612825358039 |
| 8241 003U1000 | Orange | UnReel | 1,000 ft | 612825355601 |
| 8241 002U1000 | Red | UnReel | 1,000 ft | 612825358046 |
| 8241 009U1000 | White | UnReel | 1,000 ft | 612825358688 |
| 8241 004U1000 | Yellow | UnReel | 1,000 ft | 612825355595 |

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