



Product: [8241F](#)

Analog Video, RG59, 22 AWG Stranded BC, BC Braid, PVC Jacket

Product Description

RG-59/U, 22 AWG stranded (7x30) .030" bare copper conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 22 | 7x30 | BC - Bare Copper | 0.03 in | 1 |

Conductor Count: 1

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.146 in |

Outer Shield

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

Outer Jacket

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.241 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 15 Ohm/1000ft | 2.6 Ohm/1000ft | 2.6 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 17.3 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.09 μ H/ft |

Impedance

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

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.3 dB/100ft |
| 10 MHz | 0.9 dB/100ft |
| 50 MHz | 2.1 dB/100ft |

| | |
|----------|---------------|
| 100 MHz | 3 dB/100ft |
| 200 MHz | 4.5 dB/100ft |
| 400 MHz | 6.6 dB/100ft |
| 700 MHz | 8.9 dB/100ft |
| 900 MHz | 10.1 dB/100ft |
| 1000 MHz | 10.9 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.3 ns/ft | 78% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 400 MHz | 7.4 dB/100ft |

Voltage

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

Temperature Range

| | |
|------------------------------|----------------|
| Non-UL Temp Rating: | 60°C |
| Operating Temperature Range: | -30°C To +60°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 33 lbs/1000ft |
| Max. Pull Tension: | 65 lbs |
| Min. Bend Radius/Minor Axis: | 2.5 in |

Standards

| | |
|----------------|-----|
| CPR Euroclass: | Fca |
| RG Type: | 59 |

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 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 |
|-----------------------|-----|

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|--------------------|-------------|----------|--------------|
| 8241F J5C1000 | Black, Vivid Matte | Reel | 1,000 ft | 612825355908 |
| 8241F G7X1000 | Blue, Matte | Reel | 1,000 ft | 612825355922 |
| 8241F U901000 | Gray, Matte | Reel | 1,000 ft | 612825197362 |
| 8241F G7W1000 | Green, Matte | Reel | 1,000 ft | 612825355939 |
| 8241F G7V1000 | Red, Matte | Reel | 1,000 ft | 612825355946 |
| 8241F G7Y1000 | White, Matte | Reel | 1,000 ft | 612825355915 |
| 8241F G8M1000 | Yellow, Matte | Reel | 1,000 ft | 612825357612 |

Footnote: C - CRATE REEL PUT-UP.

History

Update and Revision:

Revision Number: 0.337 Revision Date: 11-09-2022

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