



Product: [1856A](#)

Video Triax, RG59, #20 Solid, Belflex jacket

Product Description

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% coverage), Belflex jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20 | Solid | BC - Bare Copper | 0.032 in | 1 |

Conductor Count: 1

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.145 in |

Insulation, Table Note: Gas Injected

Inner Shield Material

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

Inner Jacket Material

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.216 in |

Outer Shield Material

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

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|------------------|
| PVC - Polyvinyl Chloride | Belflex® | 0.36 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Inner Shield DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|--------------------------|
| 10.1 Ohm/1000ft | 2.5 Ohm/1000ft | 1.6 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.3 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.097 µH/ft |

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5 - 850 MHz | 21 dB |
| 850 - 3000 MHz | 15 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.3 dB/100ft |
| 3.6 MHz | 0.6 dB/100ft |
| 10 MHz | 0.8 dB/100ft |
| 71.5 MHz | 2.2 dB/100ft |
| 135 MHz | 3.0 dB/100ft |
| 270 MHz | 4.2 dB/100ft |
| 360 MHz | 4.8 dB/100ft |
| 540 MHz | 5.9 dB/100ft |
| 720 MHz | 6.9 dB/100ft |
| 750 MHz | 7.1 dB/100ft |
| 1000 MHz | 8.8 dB/100ft |
| 1500 MHz | 12.0 dB/100ft |
| 2250 MHz | 16.4 dB/100ft |
| 3000 MHz | 20.4 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.22 ns/ft | 83 % |

Voltage

Non-UL Voltage Rating

300 V RMS

Temperature Range

| | |
|-----------------------|----------------|
| Non-UL Temp Rating: | 75°C |
| Operating Temp Range: | -35°C To +75°C |

Mechanical Characteristics

| | |
|----------------------------------|------------------|
| UV Resistance: | Yes - Black only |
| Bulk Cable Weight: | 76 lbs/1000ft |
| Max Recommended Pulling Tension: | 124 lbs |
| Min Bend Radius/Minor Axis: | 3.75 in |

Standards

| | |
|----------|-----------|
| RG Type: | 59/U Type |
|----------|-----------|

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| Environmental Space: | Indoor/Outdoor |
| 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 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 - Aerial: | Yes - When supported by messenger wire |
| Suitability - Burial: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black for permanent outdoor installations; all colors suitable for outdoor field deployable use |
| Suitability - Sunlight Resistance: | No |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|--------------|------------|----------|--------------|
| 1856A B591000 | Black, Matte | Reel | 1,000 ft | 612825356899 |
| 1856A B594000 | Black, Matte | Reel | 4,000 ft | 612825352242 |
| 1856A 0061000 | Blue, Light | Reel | 1,000 ft | 612825356813 |
| 1856A 0051000 | Green, Dark | Reel | 1,000 ft | 612825356868 |
| 1856A 0021000 | Red | Reel | 1,000 ft | 612825356882 |
| 1856A 0041000 | Yellow | Reel | 1,000 ft | 612825356875 |

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

Product Notes

| | |
|--------|---|
| Notes: | Print legend includes sequential footage marks. |
|--------|---|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.249 Revision Date: 04-28-2020 |
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