

1857A Coax - RG-59/U Type

For more Information
please call

1-800-Belden1



Description:

22 AWG stranded (19x34) .031" bare copper conductor, foam polyethylene insulation, bare copper braid shields (95% coverage), Belflex® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 22 | 19x34 | BC - Bare Copper | .031 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | .143 |

Inner Shield

Inner Shield Material:

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

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (in.) |
|-----------------------|-----------------|
| PE - Polyethylene | .216 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|--------------------------------------|
| Belflex® | PVC Blend - Polyvinyl Chloride Blend |

Overall Cable

Overall Nominal Diameter: 0.360 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -35°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 79 lbs/1000 ft.

Max. Recommended Pulling Tension: 124 lbs.

Min. Bend Radius/Minor Axis: 3.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| EU CE Mark: | No |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| RG Type: | 59/U |

Suitability

| | |
|------------------------|---|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black for permanent installations. All colors for field deployable use. |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

0.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.0

Nominal Velocity of Propagation:

VP (%)

79

Nominal Delay:

Delay (ns/ft)

1.29

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.0

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.6

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

| | |
|------|-----|
| 1 | 0.3 |
| 3.6 | 0.5 |
| 10 | 0.8 |
| 71.5 | 2.2 |
| 135 | 3.1 |
| 270 | 4.5 |
| 360 | 5.4 |
| 540 | 6.8 |
| 720 | 8.1 |

| | |
|------|------|
| 750 | 8.4 |
| 1000 | 10.1 |
| 1500 | 13.3 |
| 2250 | 17.6 |
| 3000 | 21.4 |

Max. Operating Voltage - Non-UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Minimum Structural Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------------|------------------|---------------|
| 5 | 850 | 21 |
| 851 | 3000 | 15 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 3 GHz.

Notes (Overall)

Notes: For use in field deployable applications where high flexibility, wide temperature range, and durability are required. Permanently indent printed for field identification.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------------|-------|---------------------------|
| 1857A B591000 | 1,000 FT | 86.000 LB | BLACK, MATTE | C | #22 FLDPE VLDPE PVC TRIAX |
| 1857A B59500 | 500 FT | 42.500 LB | BLACK, MATTE | C | #22 FLDPE VLDPE PVC TRIAX |
| 1857A 0021000 | 1,000 FT | 86.000 LB | RED | C | #22 FLDPE VLDPE PVC TRIAX |
| 1857A 0041000 | 1,000 FT | 86.000 LB | YELLOW | C | #22 FLDPE VLDPE PVC TRIAX |
| 1857A 004500 | 500 FT | 42.500 LB | YELLOW | | #22 FLDPE VLDPE PVC TRIAX |
| 1857A 0061000 | 1,000 FT | 86.000 LB | BLUE, LIGHT | C | #22 FLDPE VLDPE PVC TRIAX |
| 1857A 0071000 | 1,000 FT | 86.000 LB | VIOLET | C | #22 FLDPE VLDPE PVC TRIAX |

Notes:
C = CRATE REEL PUT-UP.

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