

## 1859A Coax - RG-11/U Type

For more Information  
please call

1-800-Belden1

**General Description:**

15 AWG stranded (19x27) .064" bare copper conductor, plenum, foam FEP insulation, bare copper braid shields (95% and 90% coverage), fluorocopolymer jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1      | 15  | 19x27     | BC - Bare Copper   | 1.6256    |

Total Number of Conductors: 1

**Insulation****Insulation Material:**

| Insulation Trade Name | Insulation Material                        | Dia. (mm) |
|-----------------------|--------------------------------------------|-----------|
| Teflon®               | FFEP - Foam Fluorinated Ethylene Propylene | 7.239     |

**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. (mm) |
|------------------------|----------------|
| PVDF - Fluorocopolymer | 8.89           |

**Outer Shield****Outer Shield Material:**

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper      | 90.000       |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material  |
|------------------------|
| PVDF - Fluorocopolymer |

**Overall Cable**

Overall Nominal Diameter: 10.312 mm

**Mechanical Characteristics (Overall)**

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -20°C To +125°C |
| Non-UL Temperature Rating:        | 125°C           |
| Bulk Cable Weight:                | 186.025 Kg/Km   |
| Max. Recommended Pulling Tension: | 1174.325 N      |
| Min. Bend Radius/Minor Axis:      | 101.600 mm      |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                         |     |
|-------------------------|-----|
| NEC/(UL) Specification: | CMP |
|-------------------------|-----|

|                          |     |
|--------------------------|-----|
| CEC/C(UL) Specification: | CMP |
|--------------------------|-----|

|                                    |     |
|------------------------------------|-----|
| EU Directive 2011/65/EU (ROHS II): | Yes |
|------------------------------------|-----|

|             |    |
|-------------|----|
| 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): | 04/01/2005 |
|---------------------------------------|------------|

|                                 |     |
|---------------------------------|-----|
| 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: | 11/U |
|----------|------|

**Flame Test**

|                |          |
|----------------|----------|
| UL Flame Test: | NFPA 262 |
|----------------|----------|

**Suitability**

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

|                        |     |
|------------------------|-----|
| Suitability - Outdoor: | Yes |
|------------------------|-----|

|                       |     |
|-----------------------|-----|
| Suitability - Burial: | Yes |
|-----------------------|-----|

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

75

**Nom. Inductance:**

Inductance (μH/m)

0.354

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)

54.1365

**Nominal Velocity of Propagation:**

VP (%)

80

**Nominal Delay:**

Delay (ns/m)

4.16687

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)

10.1711

**Nom. Inner Shield DC Resistance:**

DCR @ 20°C (Ohm/km)

4.101

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)

4.265

**Nom. Attenuation:**

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

|          |        |
|----------|--------|
| 1.000    | 0.328  |
| 3.600    | 0.984  |
| 10.000   | 1.641  |
| 71.500   | 4.593  |
| 135.000  | 6.562  |
| 270.000  | 10.171 |
| 360.000  | 11.812 |
| 540.000  | 15.421 |
| 720.000  | 18.702 |
| 750.000  | 19.030 |
| 1000.000 | 23.295 |
| 1500.000 | 31.170 |
| 2000.000 | 39.044 |
| 2250.000 | 43.309 |
| 3000.000 | 58.730 |
| 4500.000 | 94.821 |

**Max. Operating Voltage - UL:**

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

**Max. Operating Voltage - Non-UL:**

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

**Minimum Return Loss:**

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000             | 850.000          | 21.000       |
| 850.000           | 4500.000         | 15.000       |

**Sweep Test**

**Sweep Testing:** 100% sweep tested 5 MHz to 4500 MHz.

**Misc. Information (Overall)****Notes (Overall)**

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**Put Ups and Colors:**

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc                 |
|---------------|--------|-------------|-------|-------|---------------------------|
| 1859A 0101000 | 305 MT | 60.782 KG   | BLACK | C     | #15 FFEP BRD SLF BRD PVDF |
| 1859A 010500  | 152 MT | 30.164 KG   | BLACK | C     | #15 FFEP BRD SLF BRD PVDF |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 6    Revision Date: 06-25-2013

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