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1-800-Belden1



### General Description:

15 AWG stranded (19x27) .064" bare copper conductor, foam HDPE insulation, bare copper braid shields (95% coverage), Belflex® 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 Material                                 | Dia. (mm) |
|-----------------------------------------------------|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 7.9248    |

#### 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) |
|-----------------------|----------------|
| PE - Polyethylene     | 9.9314         |

#### Outer Shield

Outer Shield Material:

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

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 13.208 mm

### Mechanical Characteristics (Overall)

|                                   |                |
|-----------------------------------|----------------|
| Operating Temperature Range:      | -35°C To +75°C |
| Non-UL Temperature Rating:        | 75°C           |
| Bulk Cable Weight:                | 218.765 Kg/Km  |
| Max. Recommended Pulling Tension: | 1174.320 N     |
| Min. Bend Radius/Minor Axis:      | 139.700 mm     |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

**Suitability**

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Suitability - Indoor:  | Yes                                                                                                    |
| Suitability - Outdoor: | Yes - Black for Permanent Outdoor Installations; All Colors Suitable for Outdoor Field Deployable Use. |

**Plenum/Non-Plenum**

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

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

|                 |
|-----------------|
| Impedance (Ohm) |
| 75              |

**Nom. Inductance:**

|                   |
|-------------------|
| Inductance (μH/m) |
| 0.318257          |

**Nom. Capacitance Conductor to Shield:**

|                    |
|--------------------|
| Capacitance (pF/m) |
| 56.7613            |

**Nominal Velocity of Propagation:**

|        |
|--------|
| VP (%) |
| 78     |

**Nominal Delay:**

|              |
|--------------|
| Delay (ns/m) |
| 4.2653       |

**Nom. Conductor DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 10.1711             |

**Nom. Inner Shield DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 5.9058              |

**Nominal Outer Shield DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 4.5934              |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000       | 0.328                 |
| 3.600       | 0.984                 |
| 10.000      | 1.641                 |
| 71.500      | 3.937                 |
| 135.000     | 5.906                 |
| 270.000     | 8.531                 |
| 360.000     | 10.171                |

## METRIC MEASUREMENT VERSION

## 1858A Coax - RG-11/U Type

|          |        |
|----------|--------|
| 540.000  | 12.796 |
| 720.000  | 15.421 |
| 750.000  | 15.749 |
| 1000.000 | 18.702 |

## Max. Operating Voltage - Non-UL:

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Other Electrical Characteristic 1:** Nominal Capacitance 1st Shield to 2nd Shield: 205 pF/ft.

**Other Electrical Characteristic 2:** Nominal Voltage Breakdown: 20K V RMS

## Minimum Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
|             |             | 5                 | 850              | 21           |

## Sweep Test

**Sweep Testing:** 100% sweep tested 5 MHz to 850 MHz.

## Misc. Information (Overall)

## Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color        | Notes | Item Desc            |
|---------------|--------|-------------|--------------|-------|----------------------|
| 1858A B591000 | 305 MT | 69.854 KG   | BLACK, MATTE | C     | #15 GIFHDLDPVC TRIAX |
| 1858A B59500  | 152 MT | 36.514 KG   | BLACK, MATTE | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 0021000 | 305 MT | 69.854 KG   | RED          | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 002500  | 152 MT | 36.514 KG   | RED          | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 0041000 | 305 MT | 69.854 KG   | YELLOW       | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 004500  | 152 MT | 36.514 KG   | YELLOW       | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 0051000 | 305 MT | 69.854 KG   | GREEN, DARK  | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 0061000 | 305 MT | 69.854 KG   | BLUE, LIGHT  | C     | #15 GIFHDLDPVC TRIAX |
| 1858A 006500  | 152 MT | 36.514 KG   | BLUE, LIGHT  | C     | #15 GIFHDLDPVC TRIAX |

## Notes:

C = CRATE REEL PUT-UP.

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