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1-800-Belden1



### General Description:

27 AWG stranded (7x35) .017" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material               | Dia. (in.) |
|--------|-----|-----------|----------------------------------|------------|
| 1      | 27  | 7x35      | BCCS - Bare Copper Covered Steel | .017       |

Total Number of Conductors: 1

#### Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PE - Polyethylene   | .100       |

#### Outer Shield

Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 95.000       |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter: 0.150 in.

### Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -40°C To +60°C           |
| UL Temperature Rating:            | 60°C (UL AWM Style 1354) |
| Bulk Cable Weight:                | 14 lbs/1000 ft.          |
| Max. Recommended Pulling Tension: | 32 lbs.                  |
| Min. Bend Radius/Minor Axis:      | 1.500 in.                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| AWM Specification:                    | UL Style 1354 (30 V 60°C) |
| 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                       |
| MIL Order #39 (China RoHS):           | Yes                       |

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

**Impedance (Ohm)**

75

**Nom. Inductance:****Inductance (µH/ft)**

.115

**Nom. Capacitance Conductor to Shield:****Capacitance (pF/ft)**

20.5

**Nominal Velocity of Propagation:****VP (%)**

66

**Nominal Delay:****Delay (ns/ft)**

1.54

**Nom. Conductor DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

120

**Nominal Outer Shield DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

5.7

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | 1.2                      |
| 10          | 2.4                      |
| 50          | 4.2                      |
| 100         | 5.7                      |
| 200         | 8.3                      |
| 400         | 12.1                     |
| 700         | 16.5                     |
| 900         | 19.0                     |
| 1000        | 20.0                     |

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

30 V RMS (UL AWM Style 1354)

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

1700 V RMS

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc   |
|---------------|----------|-------------|-------|-------|-------------|
| 8218 010U1000 | 1,000 FT | 16.000 LB   | BLACK |       | 75 OHM COAX |
| 8218 010U500  | 500 FT   | 8.500 LB    | BLACK |       | 75 OHM COAX |
| 8218 010I1000 | 1,000 FT | 16.000 LB   | BLACK | C     | 75 OHM COAX |
| 8218 010I500  | 500 FT   | 8.000 LB    | BLACK |       | 75 OHM COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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