

## 8218 Coax - 75 Ohm Miniature Coax

For more Information  
please call

1-800-Belden1

**Description:**

27 AWG stranded (7x35) .017" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (93% coverage), PVC jacket.

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

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

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

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

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

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 93           |

**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 (Install)/Minor Axis: | 2 in.                    |

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

|                                       |                           |
|---------------------------------------|---------------------------|
| AWM Specification:                    | UL Style 1354 (30 V 60°C) |
| 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

**Related Documents:**

No related documents are available for this product

**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 0101000  | 1,000 FT | 16.000 LB   | BLACK | C     | 75 OHM COAX |
| 8218 010500   | 500 FT   | 8.000 LB    | BLACK |       | 75 OHM COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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