

8238 Coax - 75 Ohm Coax

 For more Information  
 please call

1-800-Belden1

**General Description:**

18 AWG stranded (7x26) .048" tinned copper conductor, flame-retardant semi-foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

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

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 18  | 7x26      | TC - Tinned Copper | .048       |

Total Number of Conductors: 1

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

| Insulation Material                                      | Dia. (in.) |
|--|------------|
| FR Semi-Foam PE - Flame Retardant Semi-Foam Polyethylene | .285       |

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

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

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

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

**Overall Cable**

Overall Nominal Diameter: 0.405 in.

**Mechanical Characteristics (Overall)**

|                                   |                  |
|-----------------------------------|------------------|
| Operating Temperature Range:      | -40°C To +80°C   |
| Non-UL Temperature Rating:        | 80°C             |
| Bulk Cable Weight:                | 108 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 143 lbs.         |
| Min. Bend Radius/Minor Axis:      | 4 in.            |

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

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CM         |
| CEC/C(UL) Specification:              | CM         |
| 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): | 10/13/2005 |

|                                   |      |
|-----------------------------------|------|
| 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: | UL1685 UL Loading |
|----------------|-------------------|

**Suitability**

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | 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) |
| 6.1                      |

**Nominal Outer Shield DC Resistance:**

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 1.2                      |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .2                       |
| 10          | .7                       |
| 50          | 1.3                      |
| 100         | 2.0                      |
| 200         | 2.9                      |
| 400         | 4.2                      |
| 700         | 5.8                      |
| 900         | 6.8                      |
| 1000        | 7.1                      |

**Max. Operating Voltage - UL:**

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

**Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color | Notes | Item Desc    |
|--------------|----------|-------------|-------|-------|--------------|
| 8238 0101000 | 1,000 FT | 117.000 LB  | BLACK | C     | RG-11/U TYPE |
| 8238 010500  | 500 FT   | 59.000 LB   | BLACK | C     | RG-11/U TYPE |

**Notes:**

C = CRATE REEL PUT-UP.

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