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1-800-Belden1



### General Description:

30 AWG stranded (7x38) .012" tinned copper conductor, foam HDPE insulation, tinned copper braid shield (90% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 30  | 7x38      | TC - Tinned Copper | .012       |

Total Number of Conductors: 1

#### Insulation

Insulation Material:

| Insulation Material                    | Dia. (in.) |
|--|------------|
| FHDPE - Foam High Density Polyethylene | .058       |

#### Outer Shield

Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 90.000       |

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 0.097 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 1375)

Bulk Cable Weight: 6 lbs/1000 ft.

Max. Recommended Pulling Tension: 14 lbs.

Min. Bend Radius/Minor Axis: 0.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification: UL Style 1375 (30 V 60°C)

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

EU CE Mark: Yes

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

#### 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)**

.097

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**

17.3

**Nominal Velocity of Propagation:**

**VP (%)**

78

**Nominal Delay:**

**Delay (ns/ft)**

1.3

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**

100

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**

11.65

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .7                       |
| 3.6         | 1.3                      |
| 5           | 1.6                      |
| 7           | 1.9                      |
| 9           | 2.1                      |
| 10          | 2.2                      |
| 50          | 5.1                      |
| 70          | 6.1                      |
| 100         | 7.3                      |
| 200         | 10.5                     |
| 400         | 15.5                     |
| 700         | 21.5                     |
| 900         | 24.8                     |
| 1000        | 26.6                     |

**Max. Operating Voltage - UL:**

**Voltage**

30 V RMS (UL AWM Style 1375)

**Put Ups and Colors:**

| Item #       | Putup  | Ship Weight | Color | Notes | Item Desc             |
|--------------|--------|-------------|-------|-------|-----------------------|
| 9221 010U500 | 500 FT | 4.000 LB    | BLACK |       | 75 OHM MINIATURE COAX |
| 9221 010100  | 100 FT | 1.400 LB    | BLACK |       | 75 OHM MINIATURE COAX |
| 9221 010500  | 500 FT | 4.000 LB    | BLACK |       | 75 OHM MINIATURE COAX |

Revision Number: 1    Revision Date: 10-04-2012

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