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1-800-Belden1



## General Description:

18 AWG solid .038" bare copper conductor, foam polyethylene insulation, double bare copper braid shields (95% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 18  | Solid     | BC - Bare Copper   | 0.038      |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material     | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | .180       |

### Outer Shield

Outer Shield Material:

| Layer # | Type  | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1       | Braid | BC - Bare Copper      | 95           |
| 2       | Braid | BC - Bare Copper      | 95           |

### Outer Jacket

Outer Jacket Material:

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

### Overall Cable

Overall Nominal Diameter: 0.288 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 54 lbs/1000 ft.

Max. Recommended Pulling Tension: 108 lbs.

Min. Bend Radius/Minor Axis: 3 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: 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

MII Order #39 (China RoHS): Yes

RG Type: 6/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)

.098

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.800

### Nominal Velocity of Propagation:

VP (%)

81

### Nominal Delay:

Delay (ns/ft)

1.250

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

7.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2

### Nom. Attenuation:

Start Freq. (MHz) Attenuation (dB/100 ft.)

|      |     |
|------|-----|
| 1    | .2  |
| 10   | .7  |
| 50   | 1.7 |
| 100  | 2.5 |
| 200  | 3.6 |
| 400  | 5.0 |
| 700  | 7.2 |
| 900  | 8.3 |
| 1000 | 8.8 |

### Max. Operating Voltage - UL:

Voltage

300 V RMS

### Minimum Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
|             |             | 5                 | 450              | 23           |

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color | Notes | Item Desc        |
|--------------|----------|-------------|-------|-------|------------------|
| 9290 0101000 | 1,000 FT | 59.000 LB   | BLACK | C     | RG-6/U TYPE COAX |
| 9290 0102000 | 2,000 FT | 118.000 LB  | BLACK | C     | RG-6/U TYPE COAX |

**Notes:**

C = CRATE REEL PUT-UP.

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