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please call

1-800-Belden1



### General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material               | Dia. (in.) |
|--------|-----|-----------|----------------------------------|------------|
| 1      | 18  | Solid     | BCCS - Bare Copper Covered Steel | .040       |

Total Number of Conductors: 1

#### Insulation

Insulation Material:

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

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                             | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1       | Bonded Duofoil®         | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | AL - Aluminum                                     | 60           |

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 0.275 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

Bulk Cable Weight: 29 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATVR, CMG, CMR

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

MII Order #39 (China RoHS): Yes

Series Type: Series 6

#### Flame Test

UL Flame Test: UL1666 Vertical Riser

CSA Flame Test: FT4

**Plenum/Non-Plenum**

Plenum (Y/N): No

Plenum Number: 9116P

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75.000

**Nom. Inductance:**

Inductance (µH/ft)  
.097

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)  
16.2

**Nominal Velocity of Propagation:**

VP (%)  
83

**Nominal Delay:**

Delay (ns/ft)  
1.2

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
28.0

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
9

**Max. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 5           | 0.67                     |
| 55          | 1.60                     |
| 211         | 2.87                     |
| 270         | 3.24                     |
| 300         | 3.43                     |
| 350         | 3.72                     |
| 400         | 4.00                     |
| 450         | 4.26                     |
| 550         | 4.71                     |
| 750         | 5.59                     |
| 870         | 6.00                     |
| 1000        | 6.54                     |

**Max. Operating Voltage - UL:**

Voltage  
350 V RMS

**Minimum Structural Return Loss:**

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------|-------------|-------------------|------------------|---------------|
|             |             | 5                 | 1000             | 20            |

**Sweep Test**

Sweep Testing: 5 MHz - 1 GHz

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc        |
|----------------|----------|-------------|-------|-------|------------------|
| 9116R 010U1000 | 1,000 FT | 32.000 LB   | BLACK |       | #18 GIFPE SH PVC |
| 9116R 010I1000 | 1,000 FT | 33.000 LB   | BLACK |       | #18 GIFPE SH PVC |

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