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1-800-Belden1



## 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       |

### 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 Cabling

Overall Nominal Diameter: 0.270 in.

## Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

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

Series Type: Series 6

### Flame Test

UL Flame Test: UL1685 UL Loading

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 9116P

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

| Impedance (Ohm) | Tolerance (Ohms) |
|-----------------|------------------|
| 75              | ± 3              |

### 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                       |

### 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             |
|---------------|----------|-------------|----------------|-------|-----------------------|
| 9116 Q5HU1000 | 1,000 FT | 29.000 LB   | WHITE, NEUTRAL |       | #18 GIFHDL DPE SH PVC |
| 9116 Q5H1000  | 1,000 FT | 30.000 LB   | WHITE, NEUTRAL |       | #18 GIFHDL DPE SH PVC |
| 9116 009U1000 | 1,000 FT | 29.000 LB   | WHITE          |       | #18 GIFHDL DPE SH PVC |
| 9116 0091000  | 1,000 FT | 30.000 LB   | WHITE          |       | #18 GIFHDL DPE SH PVC |
| 9116 009500   | 500 FT   | 15.500 LB   | WHITE          |       | #18 GIFHDL DPE SH PVC |
| 9116 010S700  | 700 FT   | 18.900 LB   | BLACK          |       | #18 GIFHDL DPE SH PVC |
| 9116 010U1000 | 1,000 FT | 29.000 LB   | BLACK          |       | #18 GIFHDL DPE SH PVC |
| 9116 010U500  | 500 FT   | 15.000 LB   | BLACK          |       | #18 GIFHDL DPE SH PVC |
| 9116 0101000  | 1,000 FT | 30.000 LB   | BLACK          | C     | #18 GIFHDL DPE SH PVC |
| 9116 010500   | 500 FT   | 15.500 LB   | BLACK          |       | #18 GIFHDL DPE SH PVC |
| 9116 290U1000 | 1,000 FT | 29.000 LB   | BEIGE, LIGHT   |       | #18 GIFHDL DPE SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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