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1-800-Belden1



## General Description:

Series 11, 14 AWG solid .064" 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. (mm) |
|--------|-----|-----------|----------------------------------|-----------|
| 1      | 14  | Solid     | BCCS - Bare Copper Covered Steel | 1.6256    |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material                  | Dia. (mm) |
|--------------------------------------|-----------|
| Gas-injected FPE - Foam Polyethylene | 7.112     |

### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                             | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1       | Duobond®                | 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: 9.982 mm

## Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 83.339 Kg/Km

Max. Recommended Pulling Tension: 1156.532 N

Min. Bend Radius/Minor Axis: 101.600 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, 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                            |
| Other Specification:                  | ANSI/SCTE 74 (latest revision) |
| Series Type:                          | Series 11                      |

### Flame Test

|                 |                   |
|-----------------|-------------------|
| UL Flame Test:  | UL1685 UL Loading |
| CSA Flame Test: | FT1               |

### Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/m)

0.318257

### Maximum Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

### Nominal Velocity of Propagation:

VP (%)

83

### Nominal Delay:

Delay (ns/m)

3.9372

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

36.091

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.4521

### Max. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

|         |        |
|---------|--------|
| 5.000   | 1.247  |
| 55.000  | 3.150  |
| 211.000 | 6.234  |
| 250.000 | 6.726  |
| 270.000 | 6.989  |
| 300.000 | 7.382  |
| 330.000 | 7.710  |
| 350.000 | 7.940  |
| 400.000 | 8.531  |
| 450.000 | 9.023  |
| 500.000 | 9.515  |
| 550.000 | 9.974  |
| 600.000 | 10.434 |
| 750.000 | 11.976 |
| 870.000 | 13.321 |

|          |        |
|----------|--------|
| 1000.000 | 14.272 |
|----------|--------|

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Max. Operating Voltage - Non-UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Minimum Structural Return Loss:**

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

**Notes (Overall)**

**Notes:** Sweep tested 5 MHz to 1 GHz.

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc           |
|---------------|----------|-------------|-------|-------|---------------------|
| 1523A 0091000 | 1,000 FT | 63.000 LB   | WHITE | C     | #14 GIFHDLDP SH PVC |
| 1523A 0101000 | 1,000 FT | 63.000 LB   | BLACK |       | #14 GIFHDLDP SH PVC |

**Notes:**  
C = CRATE REEL PUT-UP.

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