

**7915A Coax - Series 6**
 For more Information  
 please call

1-800-Belden1

**Description:**

18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid shield (77% coverage), PVC jacket.

**Usage (Overall)**

**Suitable Applications:** HDTV, DBS, Broadband CATV, Cable Modem

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 18  | Solid     | BC - Bare Copper   | .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                                       | 77           |
| 3       |                         | Tape  | Bonded Aluminum Foil-Polyester Tape w/Shorting Fold | 100          |

**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:** -40°C To +80°C

**UL Temperature Rating:** 80°C

**Bulk Cable Weight:** 32 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 91 lbs.

**Min. Bend Radius/Minor Axis:** 2.750 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 |
|---------------|----|

**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)

6.4

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

4.6

**Nom. Attenuation:**

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

|      |      |
|------|------|
| 5    | 0.5  |
| 55   | 1.4  |
| 211  | 2.6  |
| 500  | 4.1  |
| 750  | 5.1  |
| 862  | 5.5  |
| 1000 | 6.0  |
| 1450 | 7.8  |
| 1800 | 8.6  |
| 2250 | 9.8  |
| 3000 | 11.3 |

**Max. Attenuation:**

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

|    |      |
|----|------|
| 5  | 0.67 |
| 55 | 1.60 |

|      |      |
|------|------|
| 211  | 2.87 |
| 500  | 4.48 |
| 750  | 5.59 |
| 862  | 5.98 |
| 1000 | 6.54 |
| 1450 | 8.0  |
| 1800 | 8.8  |
| 2250 | 10.0 |
| 3000 | 11.9 |

**Max. Operating Voltage - UL:**

| Voltage   |
|-----------|
| 350 V RMS |

**Shield Effectiveness:**

| Start Freq. (MHz) | Stop Freq. (MHz) | Effectiveness (dB) |
|-------------------|------------------|--------------------|
| 5                 | 50               | 105                |
| 50                | 1000             | 125                |

**Minimum Structural Return Loss:**

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------------|------------------|---------------|
| 5                 | 1000             | 20            |
| 1000              | 2250             | 15            |
| 2250              | 3000             | 10            |

**Sweep Test**

**Sweep Testing:** 5 MHz - 3 GHz

**Notes (Overall)**

**Notes:** Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                  |
|----------------|----------|-------------|-------|-------|----------------------------|
| 7915A 009U1000 | 1,000 FT | 35.000 LB   | WHITE |       | #18 GIFHDLDPPE SH FS PVC   |
| 7915A 009U500  | 500 FT   | 18.000 LB   | WHITE |       | #18 GIFHDLDPPE SH FS FRPVC |
| 7915A 0091000  | 1,000 FT | 34.000 LB   | WHITE | C     | #18 GIFHDLDPPE SH FS FRPVC |
| 7915A 009500   | 500 FT   | 18.000 LB   | WHITE | C     | #18 GIFHDLDPPE SH FS FRPVC |
| 7915A 010U1000 | 1,000 FT | 35.000 LB   | BLACK |       | #18 GIFHDLDPPE SH FS PVC   |
| 7915A 010U500  | 500 FT   | 18.000 LB   | BLACK |       | #18 GIFHDLDPPE SH FS FRPVC |
| 7915A 0101000  | 1,000 FT | 34.000 LB   | BLACK | C     | #18 GIFHDLDPPE SH FS FRPVC |
| 7915A 010500   | 500 FT   | 18.000 LB   | BLACK | C     | #18 GIFHDLDPPE SH FS FRPVC |

**Notes:**

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

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