

7916A Coax - Series 6

For more Information
please call

1-800-Belden1



General Description:

Series 6, 18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid shields (60% and 40% coverage), PVC jacket (black or white).

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 | 60 |
| 3 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 4 | | Braid | AL - Aluminum | 40 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.298 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 33 lbs/1000 ft.

Max. Recommended Pulling Tension: 104 lbs.

Min. Bend Radius/Minor Axis: 3 in.

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

Series Type: Series 6

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 7916AP

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)
4.8

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 | 8.00 |
| 1800 | 8.80 |
| 2250 | 10.0 |
| 3000 | 11.9 |

Max. Operating Voltage - UL:

Voltage
300 V RMS

Shield Effectiveness:

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

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7916A Coax - Series 6

| | | |
|----|------|-----|
| 50 | 1000 | 110 |
|----|------|-----|

Typical Structural Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Typical SRL (dB) |
|-------------------|------------------|------------------|
| 5 | 1000 | 30 |
| 1000 | 3000 | 24 |

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 |
|----------------|----------|-------------|-------|-------|----------------------------|
| 7916A 009U1000 | 1,000 FT | 36.000 LB | WHITE | | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 009U500 | 500 FT | 18.500 LB | WHITE | | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 009I1000 | 1,000 FT | 35.000 LB | WHITE | C | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 009I500 | 500 FT | 19.500 LB | WHITE | C | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 010U1000 | 1,000 FT | 36.000 LB | BLACK | | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 010U500 | 500 FT | 18.500 LB | BLACK | | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 010I1000 | 1,000 FT | 35.000 LB | BLACK | C | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 010I500 | 500 FT | 19.500 LB | BLACK | C | #18 LDPE/GIFHDLPE DBSH PVC |
| 7916A 010I5000 | 5,000 FT | 190.000 LB | BLACK | C | #18 LDPE/GIFHDLPE DBSH PVC |

Notes:

C = CRATE REEL PUT-UP.

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