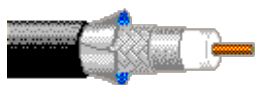


## 1613A Coax - CATV Cable



For more Information  
please call

1-800-Belden1



### Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® III + aluminum braid shield (77% 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                                     | 77           |
| 3       | Duofoil®                | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil        | 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: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 138 lbs.

Min. Bend Radius (Install)/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 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) | 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) |
|--------------------------|
| 28.0                     |

### Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5.6                      |

### 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   |
|-----------|
| 300 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 to 1 GHz

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color          | Notes | Item Desc                |
|----------------|----------|-------------|----------------|-------|--------------------------|
| 1613A Q5HU1000 | 1,000 FT | 30.000 LB   | WHITE, NEUTRAL |       | #18 GIFHDLDPPE SH FS PVC |
| 1613A 009B700  | 700 FT   | 19.600 LB   | WHITE          |       | #18 GIFHDLDPPE SH FS PVC |
| 1613A 009U1000 | 1,000 FT | 30.000 LB   | WHITE          |       | #18 GIFHDLDPPE SH FS PVC |
| 1613A 009I000  | 1,000 FT | 30.000 LB   | WHITE          |       | #18 GIFHDLDPPE SH FS PVC |
| 1613A 010B700  | 700 FT   | 19.600 LB   | BLACK          |       | #18 GIFHDLDPPE SH FS PVC |
| 1613A 010U1000 | 1,000 FT | 30.000 LB   | BLACK          |       | #18 GIFHDLDPPE SH FS PVC |
| 1613A 010I000  | 1,000 FT | 30.000 LB   | BLACK          |       | #18 GIFHDLDPPE SH FS PVC |

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