# BELDEN

**Product:** [1613AP](#) ↗

# Broadband Coax, Series 6, 18 AWG Solid BCCS, Tri-Shield, Flamarrest® Jkt, CMP

## Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, FEP Insulation, Foil + 77% Aluminum Braid + Foil Shield, Flamarrest® Jacket, CMP

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas |

### Construction Details

| | |
|---|---|
| Series Type: | 6 |

**Conductor**

| Size | Stranding | Nom. Diameter | Material |
|---|---|---|---|
| 18 AWG | Solid | 0.040 in | BCCS - Bare Copper Covered Steel |

**Insulation**

| Material | Nom. Insulation Diameter |
|---|---|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.170 in (4.32 mm) |

**Outer Shield**

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
|---|---|---|---|---|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| 2 | Braid | Aluminum | | 77% |
| 3 | Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% |

**Outer Jacket**

| Material | Nom. Diameter |
|---|---|
| PVC - Polyvinyl Chloride | 0.239 in (6.07 mm) |

### Electrical Characteristics

**Return Loss (RL)**

| Frequency | Min. Structural Return Loss |
|---|---|
| 5 - 1000 MHz | 20 dB |

**Electricals**

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---|---|---|---|---|
| 28.0 Ohm/1000ft (91.9 Ohm/km) | 5.6 Ohm/1000ft (18 Ohm/km) | 16.2 pF/ft (53.1 pF/m) | 75 Ohm | 83% |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V (CMP) |

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 75°C | -5°C to +75°C |

**Bend Radius**

| Installation Min. |
|---|
| 2.4 in |

| | |
|---|---|
| Max. Pull Tension: | 167 lbs (75.7 kg) |
| Bulk Cable Weight: | 29 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 1613A, 1613B, 1613R |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.168 Revision Date: 11-09-2022 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC |
|---|---|---|---|---|
| 1613AP 0091000 | White | Reel | 1,000 ft | 612825119111 |
| 1613AP 009U1000 | White | UnReel | 1,000 ft | 612825119104 |