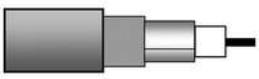
# Product: H155A01



H155A01 - 50 Ohm Wireless Transmission Coax, H155, 16 AWG Stranded BC, Foil + 80% TC Braid, PE Jkt

## Product Description

50 Ohm Wireless Transmission Coax, H155, 16 AWG Stranded Bare Copper Conductor, PE Insulation, Duofoil® + 80% Tinned Copper Braid Shield, PE Jacket

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification) |

### Construction Details

| | |
|---|---|
| RG Type: | 58 |

**Conductor**

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|---|---|---|---|---|
| 1 | 16 AWG | Stranded | 1.41 mm | BC - Bare Copper |

**Insulation**

| Element | Material | Nom. Insulation Diameter |
|---|---|---|
| Insulated Conductor | PE - Polyethylene (Foam) | 3.9 mm (0.15 in) |

| | |
|---|---|
| Table Notes: | Centricity min. 85% |

**Outer Shield**

| Layer | Outer Shield Type | Material | Coverage |
|---|---|---|---|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | 100% |
| 2 | Braid | Tinned Copper (TC) | 80% |

**Outer Jacket**

| Material | Nom. Diameter |
|---|---|
| PE - Polyethylene | 5.4 mm |

| | |
|---|---|
| Table Notes: | According to EN 50290-2-20 |

### Electrical Characteristics

| | |
|---|---|
| Regularity of Impedance: | Min. 40 dB |

**Return Loss (RL)**

| Frequency | Min. Return Loss |
|---|---|
| 5 - 470 MHz | 20 dB |
| 470 - 1000 MHz | 18 dB |
| 1000 - 2000 MHz | 16 dB |
| 2000 - 6000 MHz | 15 dB |

**Attenuation**

| Frequency | Nom. Attenuation |
|---|---|
| 5 MHz | 2.5 dB/100m |
| 50 MHz | 6.9 dB/100m |
| 100 MHz | 9.1 dB/100m |

| | |
|---|---|
| 230 MHz | 13.4 dB/100m |
| 400 MHz | 18 dB/100m |
| 800 MHz | 26.1 dB/100m |
| 862 MHz | 27.3 dB/100m |
| 1000 MHz | 29.6 dB/100m |
| 1350 MHz | 34.9 dB/100m |
| 1750 MHz | 40.3 dB/100m |
| 2150 MHz | 46 dB/100m |
| 2400 MHz | 49.1 dB/100m |
| 3000 MHz | 56.3 dB/100m |
| 3600 MHz | 62.9 dB/100m |
| 4200 MHz | 69.1 dB/100m |
| 4800 MHz | 75.1 dB/100m |
| 5400 MHz | 80.8 dB/100m |
| 6000 MHz | 86.5 dB/100m |

**Electricals**

| Max. Conductor DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---|---|---|---|
| 15.4 Ohm/km (4.69 Ohm/1000ft) | 84 pF/m (26 pF/ft) | 50 Ohm | 80% |

**Screening**

| Frequency | Min. Screening Attenuation |
|---|---|
| 30 - 1000 MHz | 85 dB |

## Mechanical Characteristics

**Temperature**

| Operating | Installation | Storage |
|---|---|---|
| -30°C To +70°C | -5°C To +50°C | -30°C To +70°C |

| | |
|---|---|
| Max. Pull Tension: | 100 N (22 lbf) |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Outdoor |
| CENELEC Compliance: | EN 50117-1, EN 50117-10-2, EN 50290-2-20 |
| European Halogen Free Standards: | IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| European Directive Compliance: | EU CE Mark |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.210 Revision Date: 02-03-2025 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | EAN |
|---|---|---|---|---|
| H155A01.00B100 | Black | Flat Box | 100 m | 8719605087928 |
| H155A01.001000 | Black | Reel | 1,000 m | 8719605087911 |

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