



Product: [1671A](#)

Conformable Coax, 50 Ohm RG-405, 24 AWG Solid SCCS, Copper-Tin Composite Shield, Unjacketed

Product Description

Conformable Coax, 50 Ohm, RG-405, 24 AWG Solid Silvered Copper Covered Steel Conductor, PTFE Insulation, Copper Tape + 100% Tin-Filled Composite Braid Shield, Unjacketed

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Microwave and other high frequency applications, Interconnect RF equipment, Radar equipment, Military communications |
|------------------------|--|

Construction Details

| | |
|----------|-----|
| RG Type: | 405 |
|----------|-----|

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|--------------------------------------|
| 24 AWG | Solid | 0.020 in | SCCS - Silvered Copper Covered Steel |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|--------------------------------|--------------------------|------------|
| PTFE - Polytetrafluoroethylene | 0.062 in (1.6 mm) | White |

Outer Shield

| Layer | Outer Shield Type | Material | Coverage | Notes |
|-------|-------------------|---------------------------------|----------|----------------------|
| 1 | Tape | Bare Copper (BC) | 100% | |
| 2 | Braid | Tinned Copper (TC + Tin Filled) | 100% | Diameter: 0.085 inch |

Outer Jacket

| Material |
|-----------|
| No Jacket |

| | |
|-----------------------------------|-------------------|
| Overall Cable Diameter (Nominal): | 0.085 in (2.2 mm) |
|-----------------------------------|-------------------|

Electrical Characteristics

VSWR

| Frequency | Max. VSWR |
|-----------|-----------|
| 500 MHz | 1.1:1 |
| 1000 MHz | 1.11:1 |
| 3000 MHz | 1.13:1 |
| 7000 MHz | 1.17:1 |
| 15000 MHz | 1.25:1 |
| 20000 MHz | 1.3:1 |

| | |
|--------------|--|
| Table Notes: | VSWR limit is a continuous sloping line from 500 MHz to 20 GHz |
|--------------|--|

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 500 MHz | 15.0 dB/100ft |
| 1000 MHz | 22.5 dB/100ft |

| | |
|-----------|---------------|
| 3000 MHz | 32.8 dB/100ft |
| 3000 MHz | 41.2 dB/100ft |
| 5000 MHz | 54.9 dB/100ft |
| 7000 MHz | 66.4 dB/100ft |
| 10000 MHz | 81.2 dB/100ft |
| 15000 MHz | 102 dB/100ft |
| 18000 MHz | 113 dB/100ft |
| 20000 MHz | 120 dB/100ft |

Power Rating

| Frequency | Max. Power Rating |
|------------|-------------------|
| 500 MHz | 180 W |
| 1,000 MHz | 119 W |
| 2,000 MHz | 79 W |
| 3,000 MHz | 62 W |
| 5,000 MHz | 46 W |
| 7,000 MHz | 37 W |
| 10,000 MHz | 30 W |
| 15,000 MHz | 24 W |
| 18,000 MHz | 21 W |
| 20,000 MHz | 20 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-------------------------------|---------------------------------|-------------------------------|------------------------|
| 64.2 Ohm/1000ft | 10.2 Ohm/1000ft (33.5 Ohm/km) | 29.5 pF/ft (96.8 pF/m) | 50 Ohm | 70% |

Voltage

| UL Voltage Rating | Voltage Rating |
|---------------------------|----------------|
| 30 V (UL AWM Style 10245) | 1500 V |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 105°C | -70°C to +200°C |

Bend Radius

| Installation Min. |
|--------------------|
| 0.125 in (3.18 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 26 lbs (12 kg) |
| Bulk Cable Weight: | 12 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor (Not Riser or Plenum), Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL 1581 Horizontal Wire |
| AWM Compliance: | AWM 10245 |
| 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) |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.480 Revision Date: 04-13-2023 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 1671A TIN50 | Tin | Reel | 50 ft | 612825120285 | |
| 1671A TIN100 | Tin | Reel | 100 ft | 612825120261 | |
| 1671A TIN500 | Tin | Reel | 500 ft | 612825120292 | V |
| 1671A TIN1000 | Tin | Reel | 1,000 ft | 612825120278 | V |

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