

C400F-NMNM

Base Product



CNT-400-FR CNT® Jumper with interface types N Male and N Male, variable length

Product Classification

| | |
|-----------------------|------------------------|
| Product Type | Braided cable assembly |
| Product Brand | CNT® |
| Product Series | CNT-400 |

General Specifications

| | |
|---|--|
| Attachment, Connector A | Field attachment |
| Attachment, Connector B | Field attachment |
| Body Style, Connector A | Straight |
| Body Style, Connector B | Straight |
| Cable Family | CNT-400 |
| Interface, Connector A | N Male |
| Interface, Connector B | N Male |
| Specification Sheet Revision Level | A |
| Variable Length | For custom lengths, contact your local ANDREW representative |

Dimensions

| | |
|---------------------|------------|
| Length | 0 m 0 ft |
| Nominal Size | 0.400 in |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 700–3000 MHz | 1.433 | 14.99 |

Jumper Assembly Sample Label

C400F-NMNM



Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

Included Products

- 400APNM-C – Type N Male for CNT-400 braided cable
- 400BPNM-C – Type N Male for CNT-400 braided cable
- CNT-400-FR – CNT-400-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant

400APNM-C

Type N Male for CNT-400 braided cable

Product Classification

| | |
|----------------------|-------------------------|
| Product Type | Braided cable connector |
| Product Brand | CNT® |

General Specifications

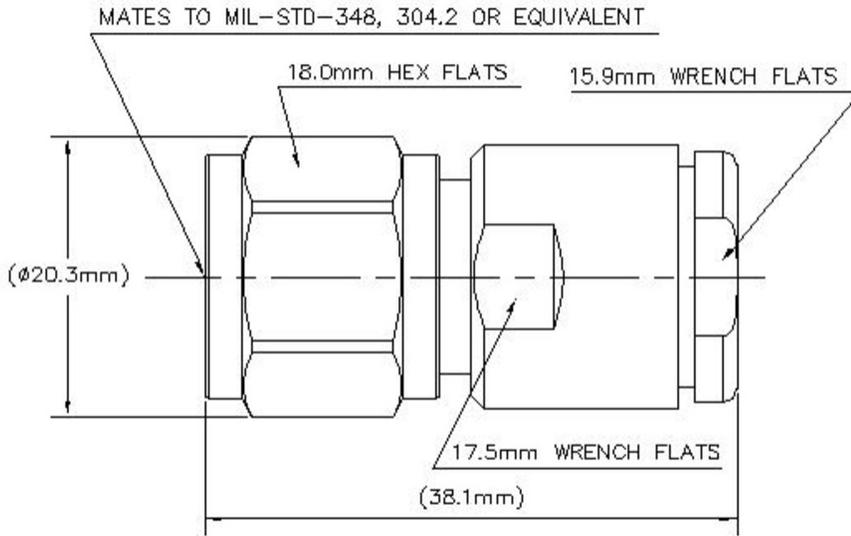
| | |
|--|------------|
| Body Style | Straight |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Gold |
| Interface | N Male |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |

Dimensions

| | |
|---------------------|---------------------|
| Width | 20.25 mm 0.797 in |
| Length | 38.22 mm 1.505 in |
| Diameter | 20.25 mm 0.797 in |
| Nominal Size | 0.405 in |

Outline Drawing

400APNM-C



Electrical Specifications

| | |
|---|--------------|
| Insertion Loss, typical | 0.05 dB |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 2500 V |
| Inner Contact Resistance, maximum | 1 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Operating Frequency Band | 0 – 6000 MHz |
| Outer Contact Resistance, maximum | 0.25 mOhm |
| Peak Power, maximum | 10 kW |
| RF Operating Voltage, maximum (vrms) | 707 V |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 0–3000 MHz | 1.046 | 32.96 |
| 3000–6000 MHz | 1.18 | 22 |

Mechanical Specifications

| | |
|--|------------------------|
| Connector Retention Tensile Force | 330 N 74.187 lbf |
| Connector Retention Torque | 0.56 N-m 4.956 in lb |

400APNM-C

| | |
|--|------------------------|
| Coupling Nut Proof Torque | 1.7 N-m 15.046 in lb |
| Coupling Nut Proof Torque Method | IEC 61169-16:9.3.6 |
| Coupling Nut Retention Force | 450 N 101.164 lbf |
| Coupling Nut Retention Force Method | IEC 61169-16:9.3.11 |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-16:9.5 |
| Mechanical Shock Test Method | IEC 60068-2-27 |

Environmental Specifications

| | |
|---|---------------------------------------|
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °F |
| Climatic Sequence Test Method | IEC 60068-1 |
| Corrosion Test Method | IEC 60068-2-11 |
| Damp Heat Steady State Test Method | IEC 60068-2-3 |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |

Packaging and Weights

| | |
|--------------------|--------------------|
| Weight, net | 47.08 g 0.104 lb |
|--------------------|--------------------|

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

* Footnotes

400APNM-C

Insertion Loss, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours

400BPNM-C



Type N Male for CNT-400 braided cable

Product Classification

| | |
|----------------------|-------------------------|
| Product Type | Braided cable connector |
| Product Brand | CNT® ConQuest® |

General Specifications

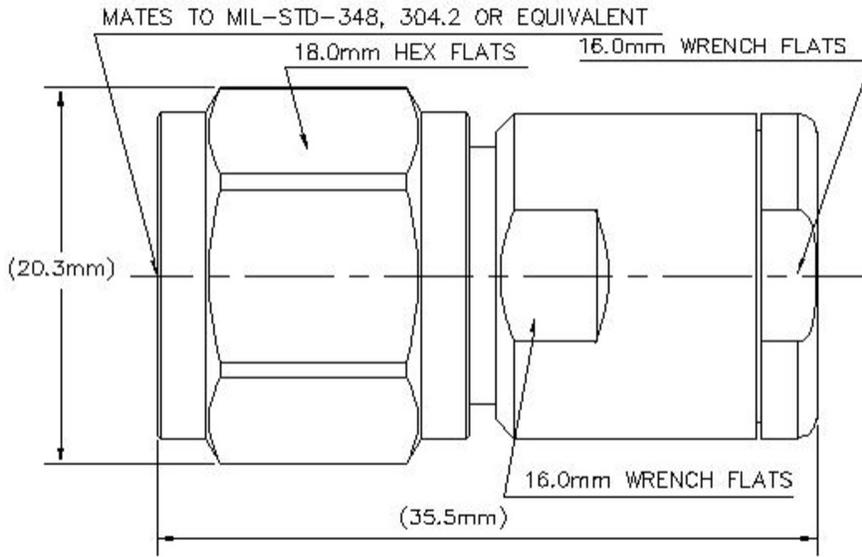
| | |
|--|------------|
| Body Style | Straight |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | N Male |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |

Dimensions

| | |
|---------------------|---------------------|
| Width | 20.25 mm 0.797 in |
| Length | 35.48 mm 1.397 in |
| Diameter | 20.25 mm 0.797 in |
| Nominal Size | 0.405 in |

Outline Drawing

400BPNM-C



Electrical Specifications

| | |
|---|--------------|
| Insertion Loss, typical | 0.05 dB |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 2500 V |
| Inner Contact Resistance, maximum | 1 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Operating Frequency Band | 0 – 6000 MHz |
| Outer Contact Resistance, maximum | 0.25 mOhm |
| Peak Power, maximum | 10 kW |
| RF Operating Voltage, maximum (vrms) | 707 V |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 0–3000 MHz | 1.046 | 32.96 |
| 3000–6000 MHz | 1.18 | 22 |

Mechanical Specifications

| | |
|--|------------------------|
| Connector Retention Tensile Force | 330 N 74.187 lbf |
| Connector Retention Torque | 0.56 N-m 4.956 in lb |

400BPNM-C

| | |
|--|------------------------|
| Coupling Nut Proof Torque | 1.7 N-m 15.046 in lb |
| Coupling Nut Proof Torque Method | IEC 61169-16:9.3.6 |
| Coupling Nut Retention Force | 450 N 101.164 lbf |
| Coupling Nut Retention Force Method | IEC 61169-16:9.3.11 |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-16:9.5 |
| Mechanical Shock Test Method | IEC 60068-2-27 |

Environmental Specifications

| | |
|---|---------------------------------------|
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °F |
| Climatic Sequence Test Method | IEC 60068-1 |
| Corrosion Test Method | IEC 60068-2-11 |
| Damp Heat Steady State Test Method | IEC 60068-2-3 |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |

Packaging and Weights

| | |
|--------------------|--------------------|
| Weight, net | 37.55 g 0.083 lb |
|--------------------|--------------------|

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

400BPNM-C



* Footnotes

Insertion Loss, typical 0.05√freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours

CNT-400-FR



CNT-400-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant

Product Classification

| | |
|-----------------------|-----------------------|
| Product Type | Braided coaxial cable |
| Product Brand | CNT® |
| Product Series | CNT-400 |

General Specifications

| | |
|-----------------------|---------|
| Braid Coverage | 90 % |
| Cable Type | CNT-400 |
| Jacket Color | Black |

Dimensions

| | |
|---------------------------------|---------------------|
| Diameter Over Dielectric | 7.24 mm 0.285 in |
| Diameter Over Jacket | 10.29 mm 0.405 in |
| Diameter Over Tape | 7.391 mm 0.291 in |
| Inner Conductor OD | 2.74 mm 0.108 in |
| Outer Conductor OD | 8.08 mm 0.318 in |
| Nominal Size | 0.400 in |

Electrical Specifications

| | |
|--|-------------------------------|
| Cable Impedance | 50 ohm |
| Capacitance | 78 pF/m 23.774 pF/ft |
| dc Resistance, Inner Conductor | 4.49 ohms/km 1.369 ohms/kft |
| dc Resistance, Outer Conductor | 5.61 ohms/km 1.71 ohms/kft |
| dc Test Voltage | 2500 V |
| Jacket Spark Test Voltage (rms) | 4000 V |
| Maximum Frequency | 16.2 GHz |
| Operating Frequency Band | 30 – 6000 MHz |
| Peak Power | 16 kW |

CNT-400-FR

Shielding Effectiveness 90 dB

Velocity 85 %

Material Specifications

Braid Material Tinned copper

Dielectric Material Foam PE

Jacket Material Non-halogenated, fire retardant polyolefin

Inner Conductor Material Copper-clad aluminum wire

Shield Tape Material Aluminum

Mechanical Specifications

Minimum Bend Radius, single Bend 25.4 mm | 1 in

Tensile Strength 73 kg | 160.937 lb

Bending Moment 0.7 N-m | 6.196 in lb

Flat Plate Crush Strength 0.7 kg/mm | 39.198 lb/in

Environmental Specifications

Installation temperature -40 °C to +60 °C (-40 °F to +140 °F)

Operating Temperature -40 °C to +60 °C (-40 °F to +140 °F)

Storage Temperature -40 °C to +60 °C (-40 °F to +140 °F)

EN50575 CPR Cable EuroClass Fire Performance Dca

EN50575 CPR Cable EuroClass Smoke Rating s2

EN50575 CPR Cable EuroClass Droplets Rating d2

Fire Retardancy Test Method UL VW1/CATVX

Smoke Index Test Method IEC 61034

Toxicity Index Test Method IEC 60754-2

Packaging and Weights

Cable weight 0.07 kg/m | 0.047 lb/ft

Packaging Type Reel

Regulatory Compliance/Certifications

| Agency | Classification |
|---------|--|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |

CNT-400-FR

| | |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

