

# 400PSMRP-CR

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## SMA Male Reverse Polarity for CNT-400 braided cable

**OBSOLETE**

This product was discontinued on: May 9, 2021

## Product Classification

|                      |                         |
|----------------------|-------------------------|
| <b>Product Type</b>  | Braided cable connector |
| <b>Product Brand</b> | CNT®   ConQuest®        |

## General Specifications

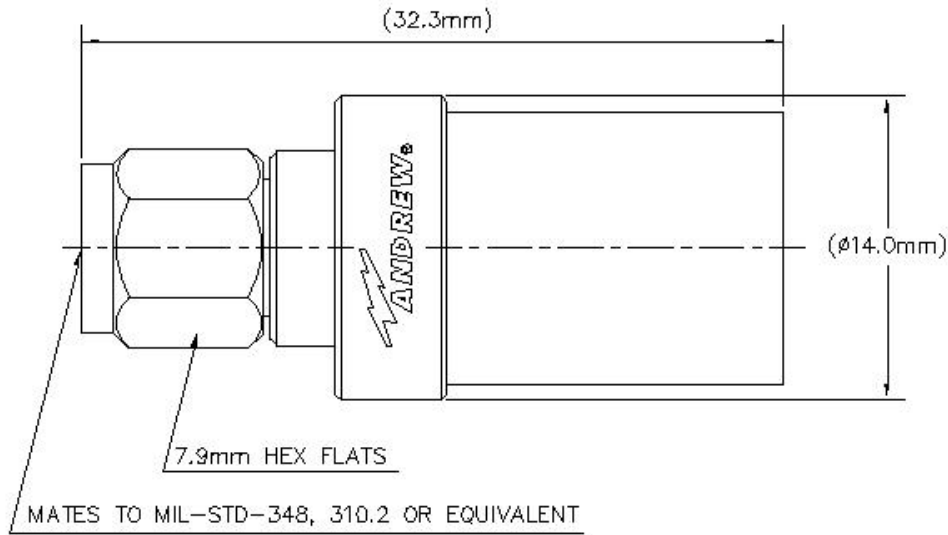
|  |          |
|--|----------|
| <b>Body Style</b>                      | Straight |
| <b>Inner Contact Attachment Method</b> | Solder   |
| <b>Inner Contact Plating</b>           | Gold     |
| <b>Interface</b>                       | SMA Male |
| <b>Outer Contact Attachment Method</b> | Crimp    |
| <b>Outer Contact Plating</b>           | Trimetal |
| <b>Pressurizable</b>                   | No       |

## Dimensions

|                     |                     |
|---------------------|---------------------|
| <b>Width</b>        | 14 mm   0.551 in    |
| <b>Length</b>       | 32.32 mm   1.272 in |
| <b>Diameter</b>     | 14 mm   0.551 in    |
| <b>Nominal Size</b> | 0.405 in            |

## Outline Drawing

# 400PSMRP-CR



## Electrical Specifications

|   |                   |
|---|-------------------|
| <b>Insertion Loss, typical</b>              | 0.05 dB           |
| <b>Average Power at Frequency</b>           | 580.0 W @ 900 MHz |
| <b>Cable Impedance</b>                      | 50 ohm            |
| <b>Connector Impedance</b>                  | 50 ohm            |
| <b>dc Test Voltage</b>                      | 1000 V            |
| <b>Inner Contact Resistance, maximum</b>    | 3 mOhm            |
| <b>Insulation Resistance, minimum</b>       | 5000 MOhm         |
| <b>Operating Frequency Band</b>             | 0 – 6000 MHz      |
| <b>Outer Contact Resistance, maximum</b>    | 2.5 mOhm          |
| <b>Peak Power, maximum</b>                  | 5 kW              |
| <b>RF Operating Voltage, maximum (vrms)</b> | 500 V             |

## VSWR/Return Loss

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 0–3000 MHz     | 1.057 | 31.15            |
| 3000–6000 MHz  | 1.134 | 24.05            |

## Mechanical Specifications

|  |                    |
|--|--------------------|
| <b>Connector Retention Tensile Force</b> | 330 N   74.187 lbf |
|--|--------------------|

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|  |   |
|--|---|
| <b>Connector Retention Torque</b>          | 0.56 N-m   4.956 in lb   0.75 N-m   6.638 in lb |
| <b>Coupling Nut Proof Torque</b>           | 1.7 N-m   15.046 in lb                          |
| <b>Coupling Nut Proof Torque Method</b>    | IEC 61169-15:9.3.6                              |
| <b>Coupling Nut Retention Force</b>        | 180 N   40.466 lbf                              |
| <b>Coupling Nut Retention Force Method</b> | IEC 61169-15:9.3.11                             |
| <b>Insertion Force</b>                     | 22 N   4.946 lbf                                |
| <b>Insertion Force Method</b>              | IEC 61169-15:9.3.5                              |
| <b>Interface Durability</b>                | 500 cycles                                      |
| <b>Interface Durability Method</b>         | IEC 61169-15:9.5                                |
| <b>Mechanical Shock Test Method</b>        | IEC 60068-2-27                                  |

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Operating Temperature</b>                      | -40 °C to +85 °C (-40 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -65 °C to +125 °C (-85 °F to +257 °F) |
| <b>Attenuation, Ambient Temperature</b>           | 20 °C   68 °F                         |
| <b>Average Power, Ambient Temperature</b>         | 40 °C   104 °F                        |
| <b>Average Power, Inner Conductor Temperature</b> | 100 °C   212 °F                       |
| <b>Climatic Sequence Test Method</b>              | IEC 60068-1                           |
| <b>Corrosion Test Method</b>                      | IEC 60068-2-11                        |
| <b>Damp Heat Steady State Test Method</b>         | IEC 60068-2-3                         |
| <b>Thermal Shock Test Method</b>                  | IEC 60068-2-14                        |
| <b>Vibration Test Method</b>                      | IEC 60068-2-6                         |
| <b>Water Jetting Test Mating</b>                  | Mated                                 |
| <b>Water Jetting Test Method</b>                  | IEC 60529:2001, IP65                  |

## Packaging and Weights

|                    |                    |
|--------------------|--------------------|
| <b>Weight, net</b> | 16.32 g   0.036 lb |
|--------------------|--------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CHINA-ROHS    | Above maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS          | Compliant/Exempted   |

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UK-ROHS

Compliant/Exempted



## \* Footnotes

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