

# 300PSM-C-CR

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SMA Male for CNT-300 braided cable

## Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

## General Specifications

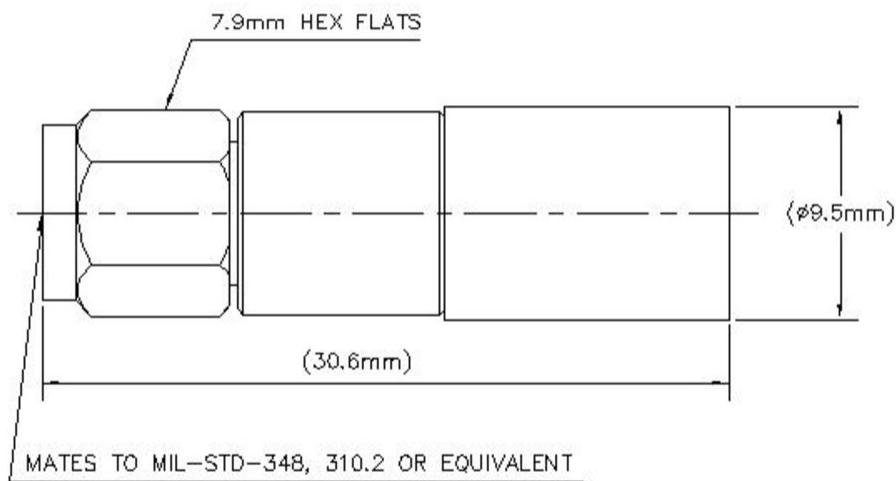
Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	SMA Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Width	9.5 mm   0.374 in
Length	30.57 mm   1.204 in
Diameter	9.5 mm   0.374 in
Nominal Size	0.300 in

## Outline Drawing

# 300PSM-C-CR



## Electrical Specifications

Insertion Loss, typical	0.05 dB
Attenuation, Ambient Temperature	20 °C   68 °F
Average Power at Frequency	360.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1000 V
Inner Contact Resistance, maximum	3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2.5 mOhm
Peak Power, maximum	5 kW

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**RF Operating Voltage, maximum (vrms)** 500 V

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.058	31.01
3000–6000 MHz	1.119	25.02

## Mechanical Specifications

<b>Connector Retention Tensile Force</b>	220 N   49.458 lbf
<b>Connector Retention Torque</b>	0.45 N-m   3.983 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>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

# 300PSM-C-CR

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**Weight, net**

9.87 g | 0.022 lb

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015



**Classification**

Designed, manufactured and/or distributed under this quality management system

## \* Footnotes

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