

# 100PSBM-CR

SMB Male (= Female pin) for CNT-100 braided cable

OBSOLETE

## Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

## General Specifications

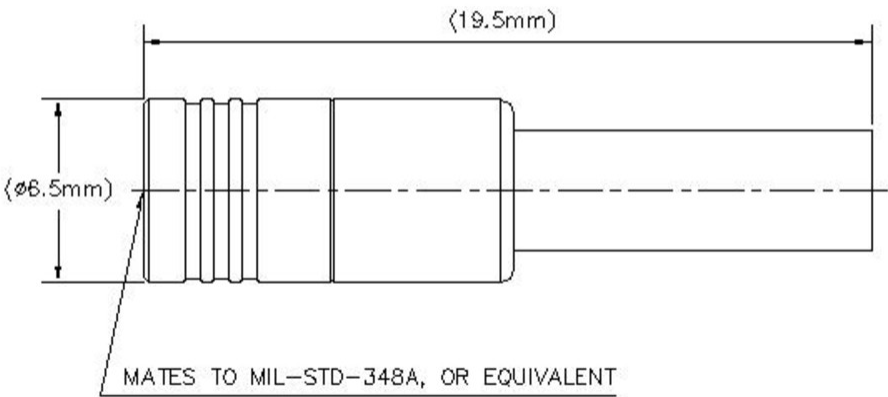
Body Style	Straight
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	SMB Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Width	6.5 mm   0.256 in
Length	19.5 mm   0.768 in
Diameter	6.5 mm   0.256 in
Nominal Size	0.110 in

## Outline Drawing

# 100PSBM-CR



## Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	50.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	500 V
Inner Contact Resistance, maximum	5 mOhm
Insulation Resistance, minimum	1000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2.5 mOhm
Peak Power, maximum	0.6 kW
RF Operating Voltage, maximum (vrms)	173 V

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.16	22.61

## Mechanical Specifications

Connector Retention Tensile Force	98 N   22.031 lbf
Insertion Force	10 N   2.248 lbf

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Insertion Force Method	IEC 61169-10:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-10:9.5
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
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP65

## Packaging and Weights

Weight, net	6.43 g   0.014 lb
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## Regulatory Compliance/Certifications

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

## \* Footnotes

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