

300PBM-CR

BNC Male for CNT-300 braided cable



Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

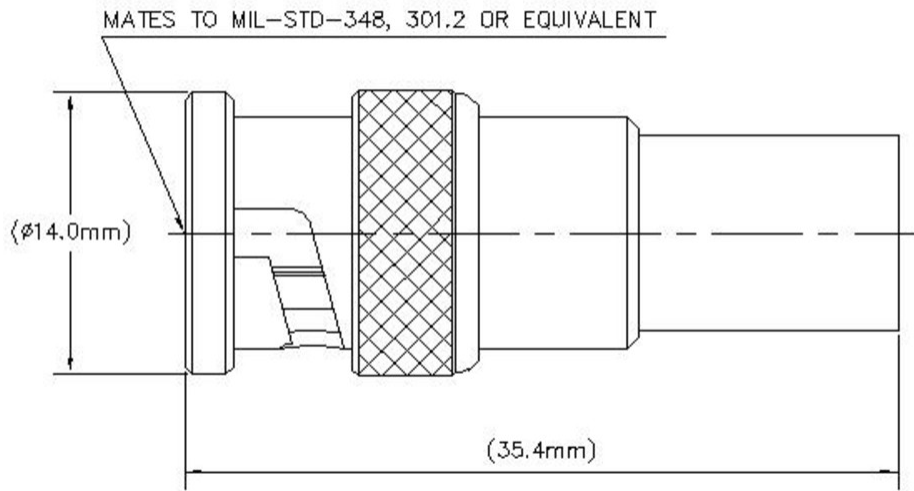
Body Style	Right angle
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	BNC Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Width	14 mm 0.551 in
Length	35.36 mm 1.392 in
Diameter	14 mm 0.551 in
Nominal Size	0.300 in

Outline Drawing

300PBM-CR



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	360.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1500 V
Inner Contact Resistance, maximum	2.5 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1 mOhm
Peak Power, maximum	5 kW
RF Operating Voltage, maximum (vrms)	500 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–2200 MHz	1.072	29.19
2200–2700 MHz	1.084	27.9

Mechanical Specifications

Connector Retention Tensile Force	220 N 49.458 lbf
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Connector Retention Torque	0.45 N-m 3.983 in lb
Coupling Nut Proof Torque	0.25 N-m 2.213 in lb
Coupling Nut Proof Torque Method	IEC 61169-8:9.3.6
Coupling Nut Retention Force	445 N 100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-8:9.3.11
Insertion Force	15 N 3.372 lbf
Insertion Force Method	IEC 61169-8:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-8:9.5
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	15.33 g 0.034 lb
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Regulatory Compliance/Certifications

Agency	Classification
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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* Footnotes

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