

400PNF-BHC

Type N Female Bulkhead for CNT-400 braided cable



Product Classification

Product Type	Braided cable connector
Product Brand	CNT® ConQuest®

General Specifications

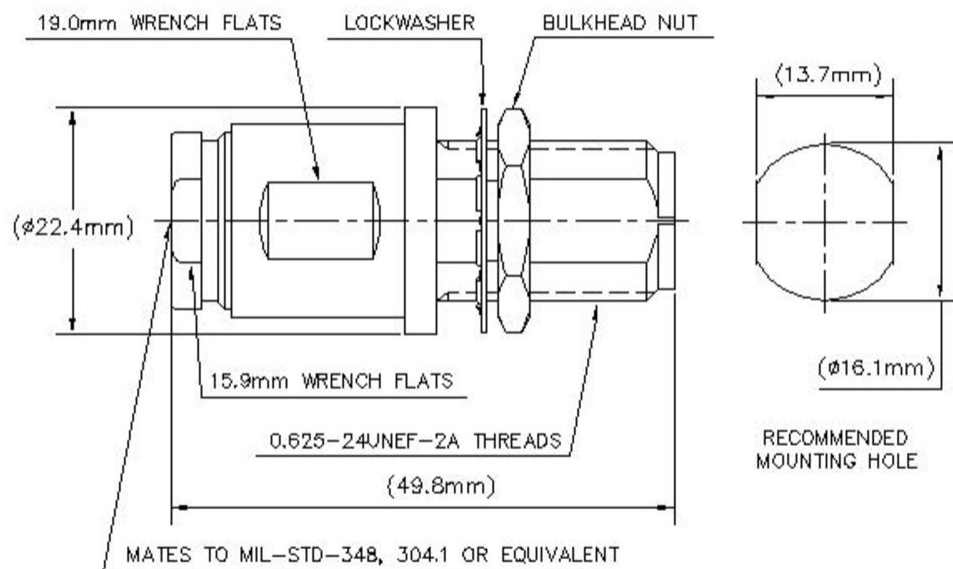
Body Style	Bulkhead
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	N Female
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Width	22.35 mm 0.88 in
Length	49.78 mm 1.96 in
Diameter	22.35 mm 0.88 in
Nominal Size	0.405 in

Outline Drawing

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Electrical Specifications

Insertion Loss, typical	0.05 dB
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power at Frequency	580.0 W @ 900 MHz
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

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RF Operating Voltage, maximum (vrms) 707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.025	38.17
3000–6000 MHz	1.093	27.05

Mechanical Specifications

Connector Retention Tensile Force	330 N 74.187 lbf
Connector Retention Torque	0.56 N-m 4.956 in lb 0.75 N-m 6.638 in lb
Insertion Force	28 N 6.295 lbf
Insertion Force Method	IEC 61169-16:9.3.5
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)
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 84.15 g | 0.186 lb

Regulatory Compliance/Certifications

400PNF-BHC

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

* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)