Product Specifications

400BPNF-C

Type N Female for CNT-400 braided cable

General Specifications

Interface	N Female
Body Style	Straight
Brand	CNT®

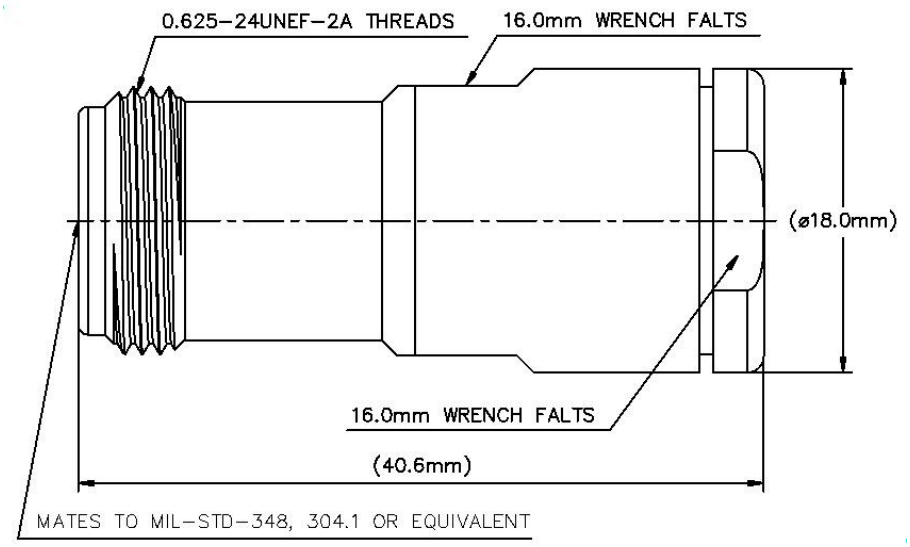
Electrical Specifications

Operating Frequency Band	0 – 6000 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	707.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	0.25 mOhm
Inner Contact Resistance, maximum	1.00 mOhm
Insulation Resistance, minimum	5000 MOhm
Insertion Loss, typical	0.05 dB

Product Specifications

400BPNF-C

Outline Drawing



Mechanical Specifications

Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Outer Contact Attachment Method	Clamp
Inner Contact Attachment Method	Captivated
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	330 N | 74 lbf
Connector Retention Torque	0.56 N-m | 0.41 ft lb

Dimensions

Nominal Size	0.405 in
Diameter	18.00 mm | 0.71 in
Length	40.55 mm | 1.60 in
Weight	44.58 g | 0.10 lb
Width	18.00 mm | 0.71 in

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)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Mechanical Shock Test Method	IEC 60068-2-27
Climatic Sequence Test Method	IEC 60068-1

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
Corrosion Test Method	IEC 60068-2-11

Standard Conditions

Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Average Power, Inner Conductor Temperature	100 °C | 212 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.05	32.26
3000–6000 MHz	1.12	24.94

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	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)