RG142TNM-CR

Type N Male for RG142 braided cable

Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

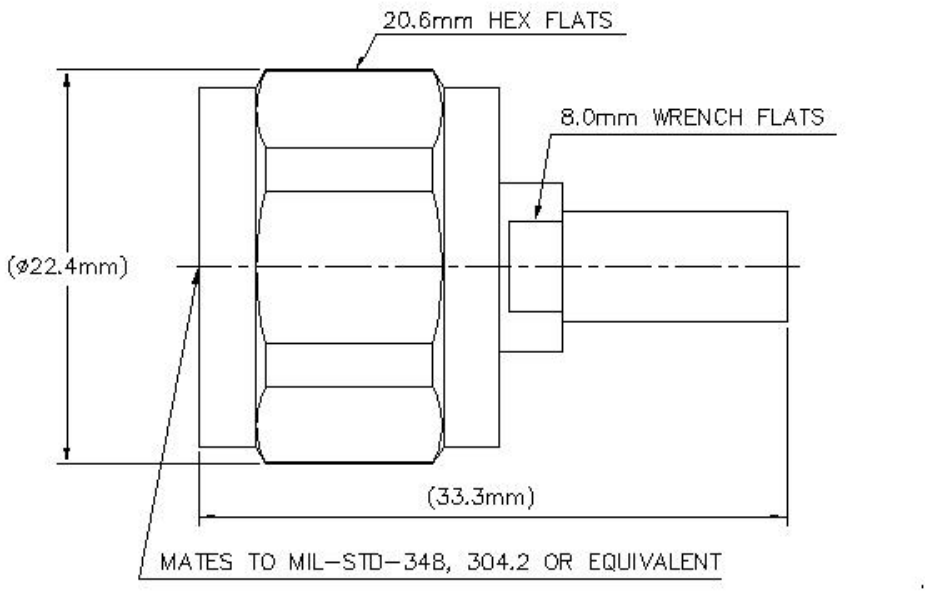
Body Style	Straight
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	N Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	223.5 mm | 8.799 in
Length	33.32 mm | 1.312 in
Diameter	22.35 mm | 0.88 in
Nominal Size	0.195 in

Outline Drawing

RG142TNM-CR



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	150.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1000 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	2.5 kW
RF Operating Voltage, maximum (vrms)	353 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.052	31.92
3000–6000 MHz	1.222	20.01

Mechanical Specifications

Connector Retention Tensile Force	134 N | 30.124 lbf

Connector Retention Torque	0.17 N-m | 1.505 in lb
Coupling Nut Proof Torque	1.7 N-m | 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-17:9.3.6
Coupling Nut Retention Force	445 N | 100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11
Insertion Force	4.9 N | 1.102 lbf
Insertion Force Method	IEC 61169-17:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-17:9.5
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	31.7 g | 0.07 lb

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)