400PHM-C-CR

Type 4.3-10 Male connector for CNT-400 braided cable

Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

Body Style	Straight
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal

Dimensions

Length	36.8 mm | 1.449 in
Diameter	24.59 mm | 0.968 in
Nominal Size	0.405 in

Outline Drawing

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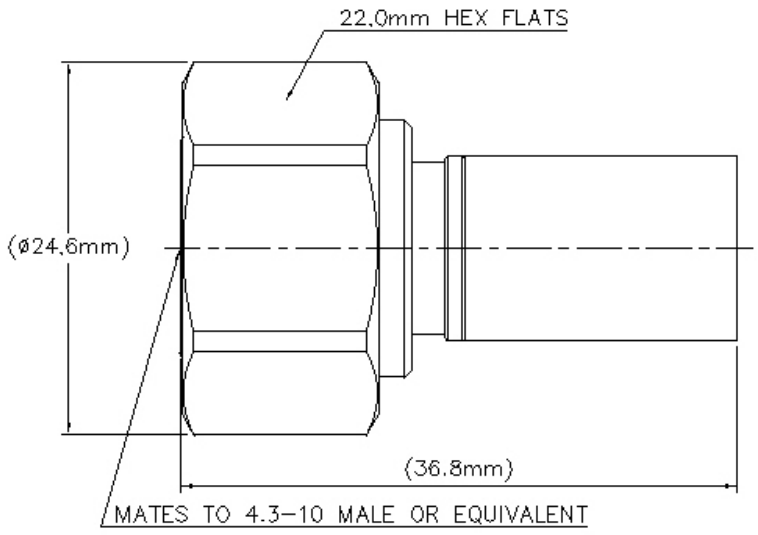

Electrical Specifications

Insertion Loss, typical	0.05 dB
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	1 mOhm
Peak Power, maximum	15 kW
RF Operating Voltage, maximum (vrms)	894 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.101	26.4

Mechanical Specifications

Connector Retention Tensile Force	330 N | 74.187 lbf
Connector Retention Torque	0.56 N-m | 4.956 in lb
Coupling Nut Proof Torque	8 N-m | 70.806 in lb
Coupling Nut Proof Torque Method	IEC 61169-54:9.3.6
Coupling Nut Retention Force	450 N | 101.164 lbf
Coupling Nut Retention Force Method	IEC 61169-54:9.3.11
Interface Durability	100 cycles
Interface Durability Method	IEC 61169-54:9.5
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
Water Jetting Test Method Note	Connector can meet IP67 when applying heat shrink tube per Installation Instruction 7857097 step 10

Packaging and Weights

Weight, net	38.1 g | 0.084 lb

* Footnotes

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