600PDR-C

7-16 DIN Male Right Angle for CNT-600 braided cable

OBSOLETE

This product was discontinued on: January 2, 2017

Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

Body Style	Right angle
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	54.27 mm | 2.137 in
Width	35.92 mm | 1.414 in
Length	46.5 mm | 1.831 in
Nominal Size	0.590 in

Outline Drawing

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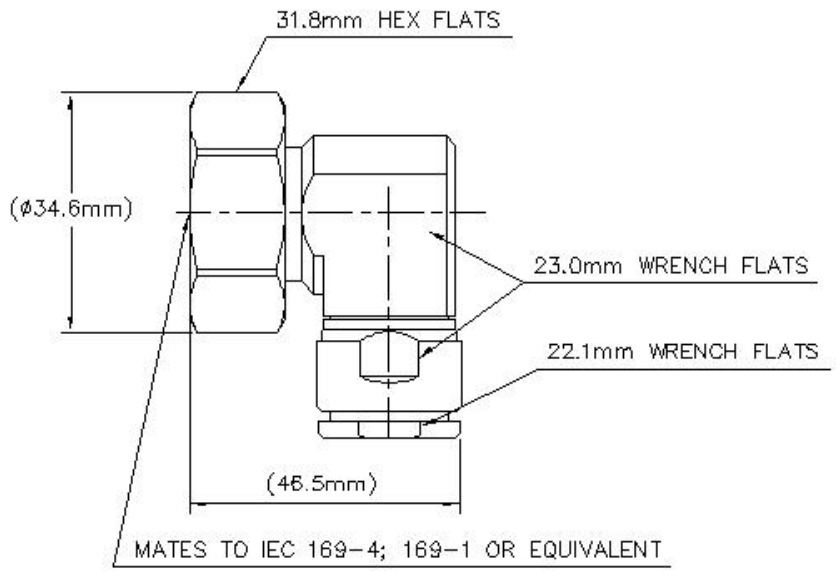

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	930.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4000 V
Inner Contact Resistance, maximum	0.4 mOhm
Insulation Resistance, minimum	10000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1.5 mOhm
Peak Power, maximum	28.8 kW
RF Operating Voltage, maximum (vrms)	1414 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–2700 MHz	1.094	26.96
3000–4000 MHz	1.34	16.76

Mechanical Specifications

Connector Retention Tensile Force	450 N | 101.164 lbf

Connector Retention Torque	1.7 N-m | 15.046 in lb
Coupling Nut Proof Torque	50 N-m | 442.537 in lb
Coupling Nut Proof Torque Method	IEC 61169-4:9.3.6
Coupling Nut Retention Force	800 N | 179.847 lbf
Coupling Nut Retention Force Method	IEC 61169-4:15.2.6
Insertion Force	200 N | 44.962 lbf
Insertion Force Method	IEC 61169-4:15.2.4
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
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
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	334 g | 0.736 lb

Regulatory Compliance/Certifications

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

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ISO 9001:2015

* Footnotes

Insertion Loss, typical	0.05√¯freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours