300APTR-CR

TNC Male Right Angle for CNT-300 braided cable

Product Classification

Product Type Braided cable connector

Product Brand CNT®

General Specifications

Body Style Right angle

Inner Contact Attachment MethodSolderInner Contact PlatingSilver

Interface TNC Male

 Outer Contact Attachment Method
 Crimp

 Outer Contact Plating
 Trimetal

Pressurizable No

Dimensions

 Height
 27.31 mm | 1.075 in

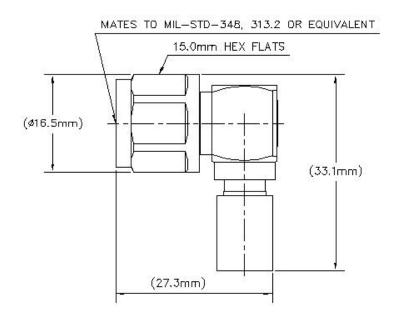
 Width
 16.5 mm | 0.65 in

 Length
 33.12 mm | 1.304 in

Nominal Size 0.300 in

Outline Drawing





Electrical Specifications

Insertion Loss, typical 0.05 dB

Average Power at Frequency 360.0 W @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage1500 V

Inner Contact Resistance, maximum1.5 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 6000 MHz

Peak Power, maximum 5 kW

VSWR/Return Loss

Outer Contact Resistance, maximum

RF Operating Voltage, maximum (vrms)

Frequency Band VSWR Return Loss (dB)

0–3000 MHz 1.124 24.68

Mechanical Specifications

Connector Retention Tensile Force220 N | 49.458 lbfConnector Retention Torque0.45 N-m | 3.983 in lb

Page 2 of 4

0.4 mOhm

500 V

300APTR-CR

Coupling Nut Proof Torque1.7 N-m1 5.046 in lbCoupling Nut Proof Torque MethodIEC 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 15 N | 3.372 lbf

Insertion Force Method IEC 61169-17:9.3.5

Interface Durability 500 cycles

Interface Durability MethodIEC 61169-17:17Mechanical Shock Test MethodIEC 60068-2-27

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +85 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +185 \,^{\circ}\text{F})$

Storage Temperature $-65 \,^{\circ}\text{C}$ to $+125 \,^{\circ}\text{C}$ (-85 $^{\circ}\text{F}$ to $+257 \,^{\circ}\text{F}$)

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 31.23 g | 0.069 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant



300APTR-CR

UK-ROHS

Compliant



* Footnotes

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

