

# RG142-TNMNM-1M

RG142 Braided Jumper with interface types N Male and N Male, 1 m



## Product Classification

Product Type	Braided cable assembly
Product Series	RG142

## General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Straight
Cable Family	RG142
Interface, Connector A	N Male
Interface, Connector B	N Male
Specification Sheet Revision Level	A

## Dimensions

Length	1 m   3.281 ft
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## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.152	23

## Jumper Assembly Sample Label

# RG142-TNMNM-1M



## 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

RG142TNM-CR – Type N Male for RG142 braided cable

# 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

## 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

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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

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Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP65

## Packaging and Weights

Weight, net	31.7 g   0.07 lb
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## 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)
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