C600F-NMNR

CNT-600-FR CNT® Jumper with interface types N Male and N Male Right Angle, variable length

OBSOLETE

This product was discontinued on: August 14, 2022

Product Classification

Product Type	Braided cable assembly
Product Brand	CNT®
Product Series	CNT-600

General Specifications

Attachment, Connector A	Field attachment
Attachment, Connector B	Field attachment
Body Style, Connector A	Straight
Body Style, Connector B	Right angle
Cable Family	CNT-600
Interface, Connector A	N Male
Interface, Connector B	N Male
Specification Sheet Revision Level	A
Variable Length	For custom lengths contact 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative

Dimensions

Length	0 m | 0 ft
Nominal Size	0.600 in

VSWR/Return Loss

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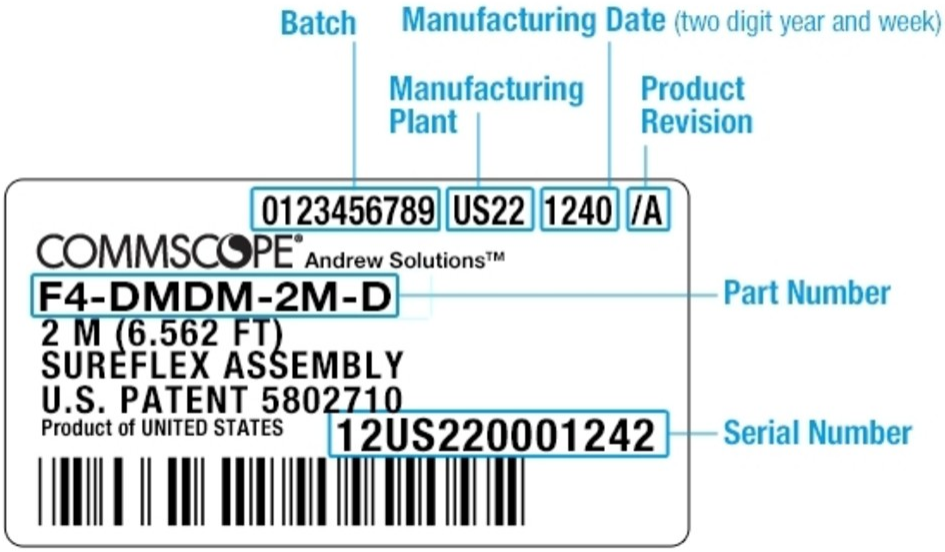
C600F-NMNR

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.433	14.99

Jumper Assembly Sample Label



Regulatory Compliance/Certifications

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

Included Products

600BPNM-C	–	Type N Male for CNT-600 braided cable
600BPNR-C	–	Type N Male Right Angle for CNT-600 braided cable
600PNR-H	–	Type N Male Right Angle for CNT-600 braided cable
CNT-600-FR	–	CNT-600-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant

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600BPNM-C

Type N Male for CNT-600 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	N Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

Dimensions

Width	24 mm | 0.945 in
Length	43.85 mm | 1.726 in
Diameter	24 mm | 0.945 in
Nominal Size	0.590 in

Outline Drawing

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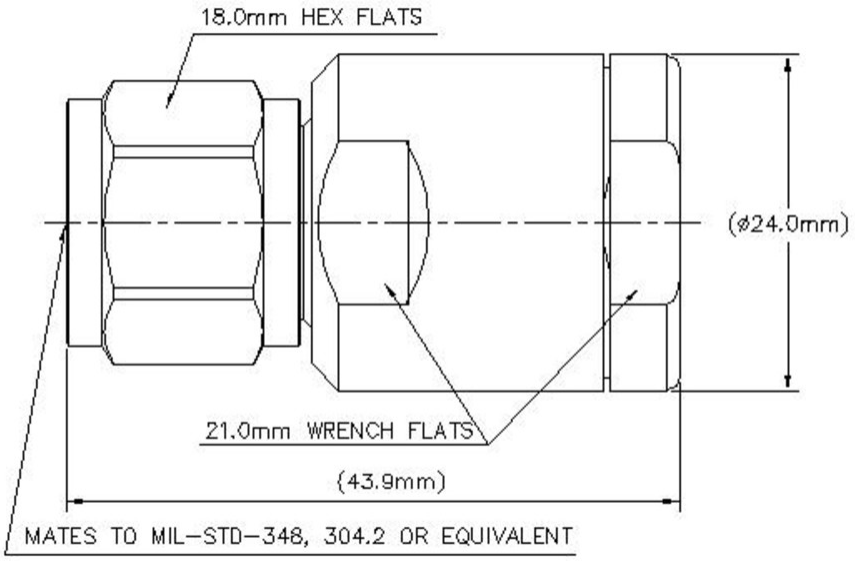
600BPNM-C



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	0.25 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.052	31.92
3000–6000 MHz	1.119	25.01

Mechanical Specifications

Connector Retention Tensile Force	450 N | 101.164 lbf
Connector Retention Torque	1.7 N-m | 15.046 in lb

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Coupling Nut Proof Torque	1.7 N-m | 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.6
Coupling Nut Retention Force	450 N | 101.164 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
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
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	74.43 g | 0.164 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

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600BPNM-C

* Footnotes

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

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600BPNR-C

Type N Male Right Angle for CNT-600 braided cable

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	N Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

Dimensions

Height	39.3 mm | 1.547 in
Width	20.25 mm | 0.797 in
Length	38.19 mm | 1.504 in
Nominal Size	0.590 in

Outline Drawing

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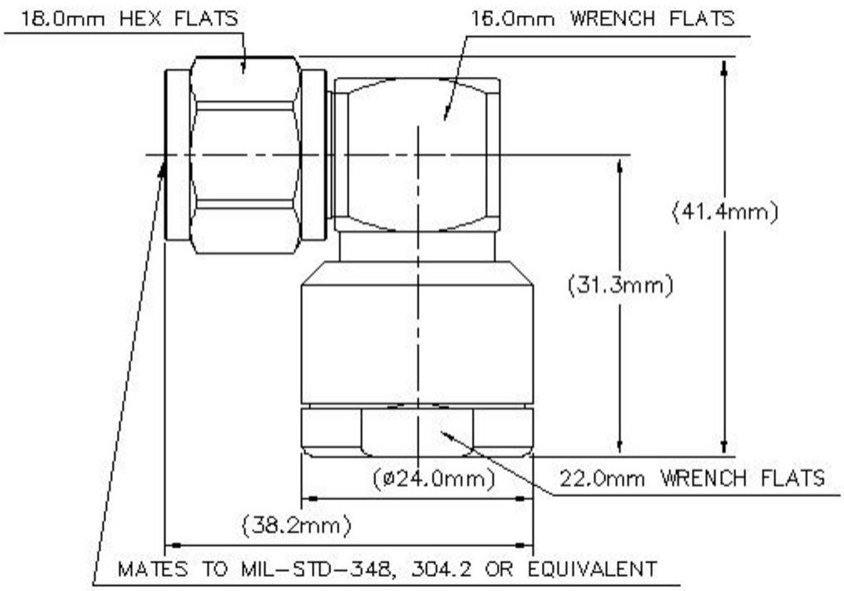
600BPNR-C



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	0.25 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.083	27.99

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	1.7 N-m | 15.046 in lb

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Coupling Nut Proof Torque Method	IEC 61169-16:9.3.6
Coupling Nut Retention Force	450 N | 101.164 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
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
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	86.06 g | 0.19 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)

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Immersion Depth	Immersion at specified depth for 24 hours

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600PNR-H

Type N Male Right Angle for CNT-600 braided cable

Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

Body Style	Right angle
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	N Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	47.86 mm | 1.884 in
Width	24.5 mm | 0.965 in
Length	37.65 mm | 1.482 in
Nominal Size	0.590 in

Outline Drawing

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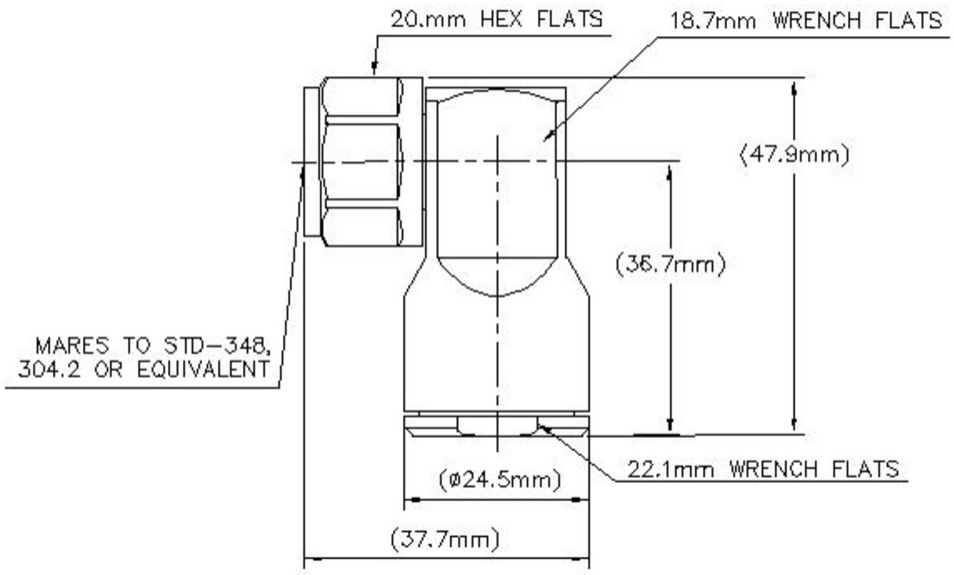
600PNR-H



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	2500 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	10 kW
RF Operating Voltage, maximum (vrms)	707 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.15	23.13
3000–6000 MHz	1.4	15.6

Mechanical Specifications

Connector Retention Tensile Force	450 N | 101.164 lbf

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Connector Retention Torque	1.7 N-m | 15.046 in lb
Coupling Nut Proof Torque	1.7 N-m | 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.6
Coupling Nut Retention Force	450 N | 101.164 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Insertion Force	28 N | 6.295 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
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
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	126.61 g | 0.279 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

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COMMSCOPE®

CNT-600-FR

CNT-600-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-600

General Specifications

Braid Coverage	90 %
Cable Type	CNT-600
Jacket Color	Black

Dimensions

Diameter Over Dielectric	11.56 mm | 0.455 in
Diameter Over Jacket	14.99 mm | 0.59 in
Inner Conductor OD	4.47 mm | 0.176 in
Outer Conductor OD	12.5 mm | 0.492 in
Nominal Size	0.600 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	76 pF/m | 23.165 pF/ft
dc Resistance, Inner Conductor	1.74 ohms/km | 0.53 ohms/kft
dc Resistance, Outer Conductor	3.94 ohms/km | 1.201 ohms/kft
dc Test Voltage	4600 V
Jacket Spark Test Voltage (rms)	8000 V
Maximum Frequency	10.2 GHz

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Operating Frequency Band	30 – 6000 MHz
Peak Power	40 kW
Shielding Effectiveness	90 dB
Velocity	87 %

Material Specifications

Braid Material	Tinned copper
Dielectric Material	Foam PE
Jacket Material	Non-halogenated, fire retardant polyolefin
Inner Conductor Material	Copper-clad aluminum wire
Shield Tape Material	Aluminum

Mechanical Specifications

Minimum Bend Radius, single Bend	38.1 mm | 1.5 in
Tensile Strength	159 kg | 350.535 lb
Bending Moment	3.7 N-m | 32.748 in lb
Flat Plate Crush Strength	1.1 kg/mm | 61.597 lb/in

Environmental Specifications

Installation temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d2
Fire Retardancy Test Method	UL VW1/CATVX
Smoke Index Test Method	IEC 61034
Toxicity Index Test Method	IEC 60754-2

Packaging and Weights

Cable weight	0.13 kg/m | 0.087 lb/ft
Packaging Type	Reel

Regulatory Compliance/Certifications

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CNT-600-FR

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
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

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