

C400-BMBM

Base Product



CNT-400 CNT® Jumper with interface types BNC Male and BNC Male, variable length

Product Classification

Product Type	Braided cable assembly
Product Brand	CNT®
Product Series	CNT-400

General Specifications

Attachment, Connector A	Factory attached
Attachment, Connector B	Factory attached
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Cable Family	CNT-400
Interface, Connector A	BNC Male
Interface, Connector B	BNC Male
Specification Sheet Revision Level	A
Variable Length	For custom lengths, contact your local ANDREW representative

Dimensions

Nominal Size	0.400 in
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VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–2000 MHz	1.222	20.01
2000–3000 MHz	1.288	18

Jumper Assembly Sample Label

C400-BMBM



Included Products

- 400PBM-CR – BNC Male for CNT-400 braided cable
- CNT-400 – CNT-400, CNT[®] 50 Ohm Braided Coaxial Cable, variable, black PE jacket

400PBM-CR



BNC Male for CNT-400 braided cable

Product Classification

Product Type	Braided cable connector
Product Brand	CNT® ConQuest®

General Specifications

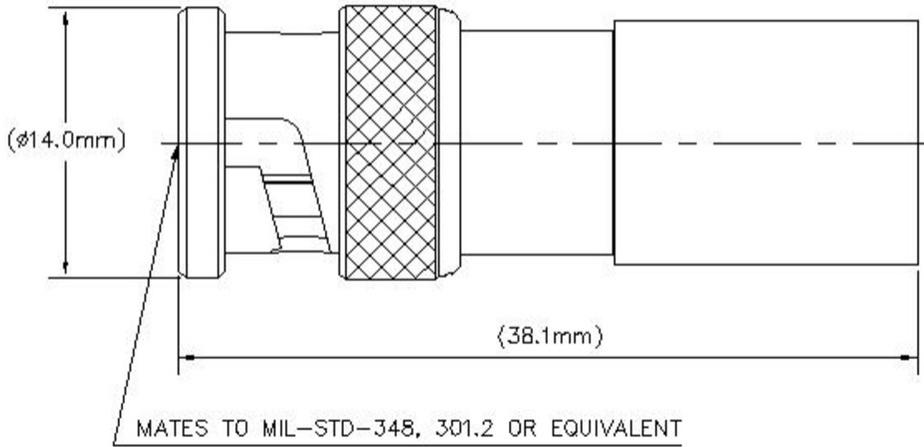
Body Style	Straight
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	BNC Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Width	14 mm 0.551 in
Length	37.76 mm 1.487 in
Diameter	14 mm 0.551 in
Nominal Size	0.405 in

Outline Drawing

400PBM-CR



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	580.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1500 V
Inner Contact Resistance, maximum	2.5 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	1 mOhm
Peak Power, maximum	5 kW
RF Operating Voltage, maximum (vrms)	500 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.105	26.05
3000–6000 MHz	1.172	22.03

Mechanical Specifications

Connector Retention Tensile Force	330 N 74.187 lbf
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400PBM-CR

Connector Retention Torque	0.56 N-m 4.956 in lb 0.75 N-m 6.638 in lb
Coupling Nut Proof Torque	0.25 N-m 2.213 in lb
Coupling Nut Proof Torque Method	IEC 61169-8:9.3.6
Coupling Nut Retention Force	445 N 100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-8:9.3.11
Insertion Force	15 N 3.372 lbf
Insertion Force Method	IEC 61169-8:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-8:9.5
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

Packaging and Weights

Weight, net	27 g 0.06 lb
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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.andrew.com/ProductCompliance

400PBM-CR

ROHS Compliant

UK-ROHS Compliant



* Footnotes

Insertion Loss, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)

CNT-400



CNT-400, CNT® 50 Ohm Braided Coaxial Cable, variable, black PE jacket

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-400

General Specifications

Braid Coverage	90 %
Cable Type	CNT-400
Jacket Color	Black

Dimensions

Diameter Over Dielectric	7.24 mm 0.285 in
Diameter Over Jacket	10.29 mm 0.405 in
Diameter Over Tape	7.391 mm 0.291 in
Inner Conductor OD	2.74 mm 0.108 in
Outer Conductor OD	8.08 mm 0.318 in
Nominal Size	0.400 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	78 pF/m 23.774 pF/ft
dc Resistance, Inner Conductor	4.69 ohms/km 1.43 ohms/kft
dc Resistance, Outer Conductor	5.61 ohms/km 1.71 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	4000 V
Maximum Frequency	16.2 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	16 kW

CNT-400

Shielding Effectiveness	90 dB
Velocity	85 %

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	25.4 mm 1 in
Tensile Strength	73 kg 160.937 lb
Bending Moment	0.7 N-m 6.196 in lb
Flat Plate Crush Strength	0.7 kg/mm 39.198 lb/in

Environmental Specifications

Installation temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

Packaging and Weights

Cable weight	0.1 kg/m 0.067 lb/ft
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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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

