

C300F-SRTR

Base Product



CNT-300-FR CNT® Jumper with interface types SMA Male Right Angle and TNC Male Right Angle, variable length

Product Classification

Product Type	Braided cable assembly
Product Brand	CNT®
Product Series	CNT-300

General Specifications

Body Style, Connector A	Right angle
Body Style, Connector B	Right angle
Cable Family	CNT-300
Interface, Connector A	SMA Male
Interface, Connector B	TNC Male
Orientation	0°
Specification Sheet Revision Level	A
Variable Length	For custom lengths, contact your local ANDREW representative

Dimensions

Length	0 m 0 ft
Nominal Size	0.300 in

VSWR/Return Loss

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

Jumper Assembly Sample Label

C300F-SRTR



Regulatory Compliance/Certifications

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

Included Products

- | | |
|-------------|---|
| 300APSR-C | - SMA Male Right Angle for CNT-300 braided cable |
| 300APTR-CR | - TNC Male Right Angle for CNT-300 braided cable |
| CNT-300-FR | - CNT-300-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant |
| CNT-300A-FR | - CNT-300-FR, CNT® 50 Ohm Braided Coaxial Cable, black non-halogenated, fire retardant polyolefin jacket, Dca s2 d2 Compliant |

300APSR-C

SMA Male Right Angle for CNT-300 braided cable



Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

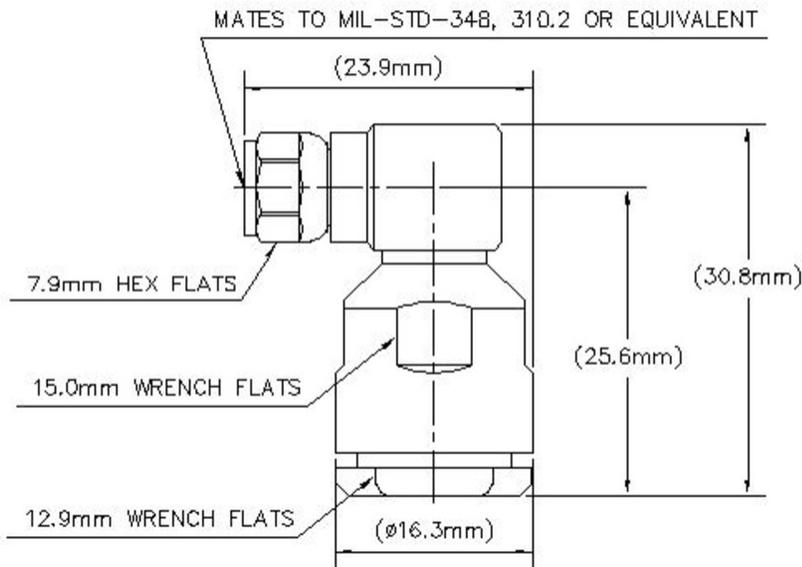
Body Style	Right angle
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Gold
Interface	SMA Male
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	30.82 mm 1.213 in
Width	162.5 mm 6.398 in
Length	23.84 mm 0.939 in
Nominal Size	0.300 in

Outline Drawing

300APSR-C



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	360.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1000 V
Inner Contact Resistance, maximum	3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2.5 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	1.28	18.22

Mechanical Specifications

Connector Retention Tensile Force	220 N 49.458 lbf
Connector Retention Torque	0.45 N-m 3.983 in lb

300APSR-C

Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-15:9.3.6
Coupling Nut Retention Force	180 N 40.466 lbf
Coupling Nut Retention Force Method	IEC 61169-15:9.3.11
Insertion Force	22 N 4.946 lbf
Insertion Force Method	IEC 61169-15:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-15:9.5
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

Packaging and Weights

Weight, net	33.18 g 0.073 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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300APTR-CR

TNC Male Right Angle for CNT-300 braided cable

Product Classification

Product Type	Braided cable connector
Product Brand	CNT®

General Specifications

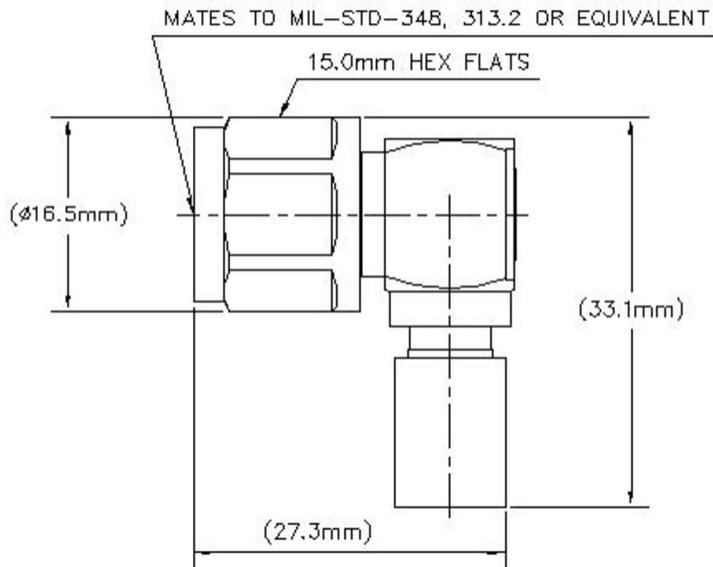
Body Style	Right angle
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	TNC Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

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

300APTR-CR



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	360.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1500 V
Inner Contact Resistance, maximum	1.5 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.4 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	1.124	24.68

Mechanical Specifications

Connector Retention Tensile Force	220 N 49.458 lbf
Connector Retention Torque	0.45 N-m 3.983 in lb

300APTR-CR

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	15 N 3.372 lbf
Insertion Force Method	IEC 61169-17:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-17:17
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
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
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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

300APTR-CR

UK-ROHS

Compliant



* Footnotes

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

CNT-300-FR



CNT-300-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-300

General Specifications

Braid Coverage	87 %
Cable Type	CNT-300
Jacket Color	Black

Dimensions

Diameter Over Dielectric	4.83 mm 0.19 in
Diameter Over Jacket	7.62 mm 0.3 in
Diameter Over Tape	5.003 mm 0.197 in
Inner Conductor OD	1.78 mm 0.07 in
Outer Conductor OD	5.66 mm 0.223 in
Nominal Size	0.300 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	80.4 pF/m 24.506 pF/ft
dc Resistance, Inner Conductor	6.96 ohms/km 2.121 ohms/kft
dc Resistance, Outer Conductor	8.5 ohms/km 2.591 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	3500 V
Maximum Frequency	24.5 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	10 kW

CNT-300-FR

Shielding Effectiveness	90 dB
Velocity	83 %

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	22.352 mm 0.88 in
Tensile Strength	55 kg 121.254 lb
Bending Moment	0.5 N-m 4.425 in lb
Flat Plate Crush Strength	0.5 kg/mm 27.999 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
Smoke Index Test Method	IEC 61034
Toxicity Index Test Method	IEC 60754-2

Packaging and Weights

Cable weight	0.08 kg/m 0.054 lb/ft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value

CNT-300-FR

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

ROHS

Compliant

UK-ROHS

Compliant



CNT-300A-FR



CNT-300-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-300

General Specifications

Braid Coverage	87 %
Cable Type	CNT-300
Jacket Color	Black

Dimensions

Diameter Over Dielectric	4.83 mm 0.19 in
Diameter Over Jacket	7.62 mm 0.3 in
Diameter Over Tape	5.003 mm 0.197 in
Inner Conductor OD	1.78 mm 0.07 in
Outer Conductor OD	5.66 mm 0.223 in
Nominal Size	0.300 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	80.4 pF/m 24.506 pF/ft
dc Resistance, Inner Conductor	11.05 ohms/km 3.368 ohms/kft
dc Resistance, Outer Conductor	8.5 ohms/km 2.591 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	3500 V
Maximum Frequency	24.5 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	10 kW

CNT-300A-FR

Shielding Effectiveness 90 dB

Velocity 83 %

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 22.352 mm | 0.88 in

Tensile Strength 23 kg | 50.706 lb

Bending Moment 0.5 N-m | 4.425 in lb

Flat Plate Crush Strength 0.5 kg/mm | 27.999 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

Smoke Index Test Method IEC 61034

Toxicity Index Test Method IEC 60754-2

Packaging and Weights

Cable weight 0.07 kg/m | 0.047 lb/ft

Packaging Type Reel

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value

CNT-300A-FR

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

