C240-NRQMR

Base Product

CNT-240 CNT® Jumper with interface types N Male Right Angle and QMA MaleRight Angle, variable length

Product Classification

Product Type	Braided cable assembly
Product Brand	CNT®
Product Series	CNT-240

General Specifications

Body Style, Connector A	Right angle
Body Style, Connector B	Right angle
Cable Family	CNT-240
Interface, Connector A	N Male
Interface, Connector B	QMA Male
Orientation	0°
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	0.240 in

VSWR/Return Loss

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

Jumper Assembly Sample Label

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C240-NRQMR

Regulatory Compliance/Certifications

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

Included Products

240BPNR-CR	–	Type N Male Right Angle for CNT-240 and CNT-240-Flex braided cable
240PQMR-C-CR	–	QMA Male Right Angle for CNT-240 braided cable
240PQMR-CA	–	QMA Male Right Angle for CNT-240 braided cable, for jumpers only not for sale
CNT-240	–	CNT-240, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket
CNT-240-SFR	–	CNT-240-SFR, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket

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240BPNR-CR

Type N Male Right Angle for CNT-240 and CNT-240-Flex 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	N Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal

Dimensions

Height	32.74 mm | 1.289 in
Width	20.25 mm | 0.797 in
Length	33.33 mm | 1.312 in
Nominal Size	0.240 in

Outline Drawing

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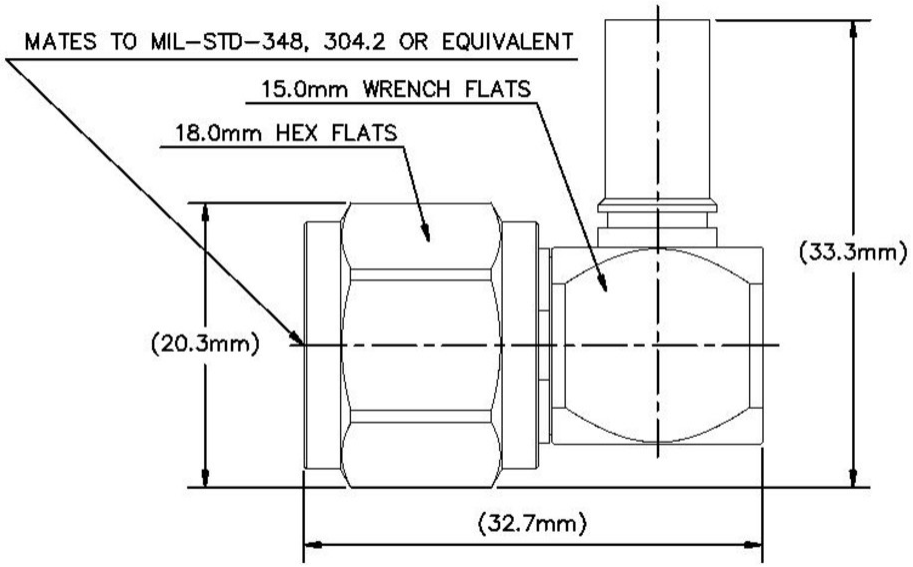
240BPNR-CR



Electrical Specifications

Insertion Loss, typical	0.05 dB
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1500 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	5.6 kW
RF Operating Voltage, maximum (vrms)	529 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
960–2200 MHz	1.06	30.72
2200–3000 MHz	1.07	29.42
3000–6000 MHz	1.22	20.08

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Mechanical Specifications

Connector Retention Tensile Force	134 N | 30.124 lbf
Connector Retention Torque	0.23 N-m | 2.036 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
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
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	41.62 g | 0.092 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

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COMMSCOPE®

240BPNR-CR

ROHS	Compliant
UK-ROHS	Compliant

* Footnotes

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

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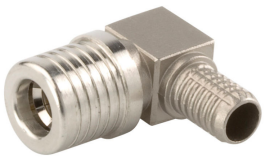
240PQMR-C-CR



QMA Male Right Angle for CNT-240 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	QMA Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	23.25 mm | 0.915 in
Width	10.5 mm | 0.413 in
Length	19.71 mm | 0.776 in
Nominal Size	0.240 in

Outline Drawing

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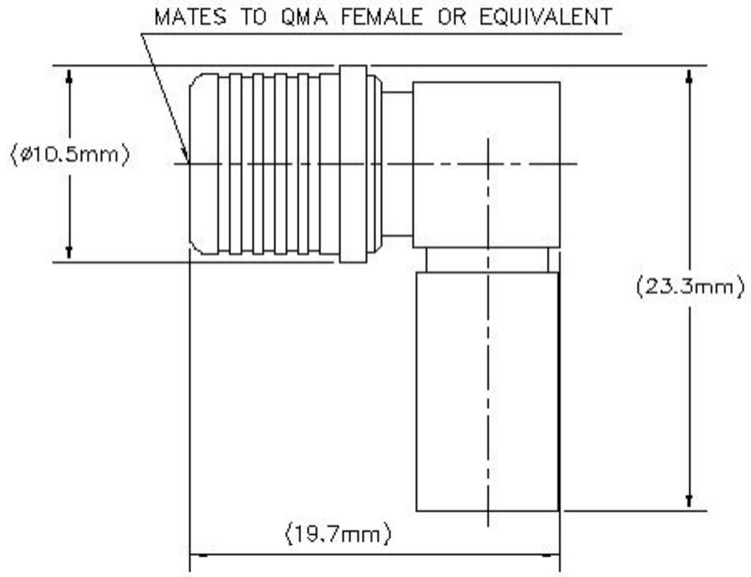
240PQMR-C-CR



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	260.0 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	1.073	29.07
3000–6000 MHz	1.134	24.05

Mechanical Specifications

Connector Retention Tensile Force	134 N | 30.124 lbf

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Connector Retention Torque	0.23 N-m | 2.036 in lb
Insertion Force	22 N | 4.946 lbf
Insertion Force Method	IEC 61169-15:9.3.5
Interface Durability	100 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
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP65

Packaging and Weights

Weight, net	8.96 g | 0.02 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
UK-ROHS	Compliant

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* Footnotes

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

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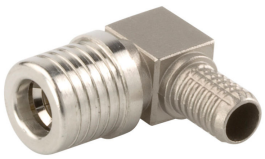
240PQMR-CA



QMA Male Right Angle for CNT-240 braided cable, for jumpers only not for sale

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	QMA Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Unplated
Pressurizable	No

Dimensions

Height	23.25 mm | 0.915 in
Width	10.5 mm | 0.413 in
Length	19.71 mm | 0.776 in
Nominal Size	0.240 in

Outline Drawing

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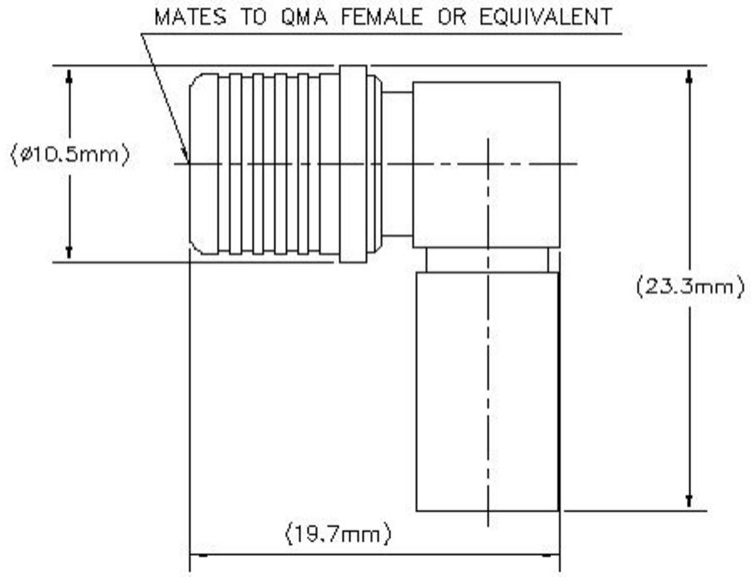
240PQMR-CA



Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	260.0 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	1.073	29.07
3000–6000 MHz	1.134	24.05

Mechanical Specifications

Connector Retention Tensile Force	134 N | 30.124 lbf

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Connector Retention Torque	0.23 N-m | 2.036 in lb
Insertion Force	22 N | 4.946 lbf
Insertion Force Method	IEC 61169-15:9.3.5
Interface Durability	100 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
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP65

Packaging and Weights

Weight, net	8.96 g | 0.02 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
UK-ROHS	Compliant

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* Footnotes

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

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CNT-240

CNT-240, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-240

General Specifications

Braid Coverage	90 %
Cable Type	CNT-240
Jacket Color	Black

Dimensions

Diameter Over Dielectric	3.81 mm | 0.15 in
Diameter Over Jacket	6.1 mm | 0.24 in
Diameter Over Tape	3.987 mm | 0.157 in
Inner Conductor OD	1.42 mm | 0.056 in
Outer Conductor OD	4.52 mm | 0.178 in
Nominal Size	0.240 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.8 pF/m | 24.323 pF/ft
dc Resistance, Inner Conductor	11.1 ohms/km | 3.383 ohms/kft
dc Resistance, Outer Conductor	12.76 ohms/km | 3.889 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	2500 V

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Maximum Frequency	31 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	5.6 kW
Shielding Effectiveness	90 dB
Velocity	83 %

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	19.05 mm | 0.75 in
Tensile Strength	36 kg | 79.366 lb
Bending Moment	0.3 N-m | 2.655 in lb
Flat Plate Crush Strength	0.4 kg/mm | 22.399 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	0.05 kg/m | 0.034 lb/ft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	**Classification**
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
UK-ROHS	Compliant

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CNT-240-SFR

CNT-240-SFR, CNT® 50 Ohm Braided Coaxial Cable, black PE jacket

Product Classification

Product Type	Braided coaxial cable
Product Brand	CNT®
Product Series	CNT-240

General Specifications

Braid Coverage	90 %
Cable Type	CNT-240
Jacket Color	Black

Dimensions

Diameter Over Dielectric	3.81 mm | 0.15 in
Diameter Over Jacket	6.1 mm | 0.24 in
Diameter Over Tape	3.987 mm | 0.157 in
Inner Conductor OD	1.42 mm | 0.056 in
Outer Conductor OD	4.52 mm | 0.178 in
Nominal Size	0.240 in

Electrical Specifications

Cable Impedance	50 ohm
Capacitance	79.8 pF/m | 24.323 pF/ft
dc Resistance, Inner Conductor	11.1 ohms/km | 3.383 ohms/kft
dc Resistance, Outer Conductor	12.76 ohms/km | 3.889 ohms/kft
dc Test Voltage	2500 V
Jacket Spark Test Voltage (rms)	2500 V

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CNT-240-SFR

Maximum Frequency	31 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	5.6 kW
Shielding Effectiveness	90 dB
Velocity	83 %

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	19.05 mm | 0.75 in
Tensile Strength	36 kg | 79.366 lb
Bending Moment	0.3 N-m | 2.655 in lb
Flat Plate Crush Strength	0.4 kg/mm | 22.399 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	0.05 kg/m | 0.034 lb/ft
Packaging Type	Reel

Regulatory Compliance/Certifications

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

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