

100PMR-CR

MCX Male Right Angle for CNT-100 braided cable

OBSOLETE

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	MCX Male
Outer Contact Attachment Method	Crimp
Outer Contact Plating	Gold
Pressurizable	No

Dimensions

Width	9 mm 0.354 in
Length	10 mm 0.394 in
Diameter	5 mm 0.197 in
Nominal Size	0.110 in

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	50.0 W @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	500 V
Inner Contact Resistance, maximum	5 mOhm
Insulation Resistance, minimum	1000 MOhm
Operating Frequency Band	0 – 6000 MHz

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Outer Contact Resistance, maximum	2.5 mOhm
Peak Power, maximum	0.6 kW
RF Operating Voltage, maximum (vrms)	173 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.065	30.05
3000–6000 MHz	1.25	19.09

Mechanical Specifications

Connector Retention Tensile Force	98 N 22.031 lbf
Interface Durability	500 cycles
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	20 g 0.044 lb
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value

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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



* Footnotes

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