

400BPDM-CR



7-16 DIN Male for CNT-400 and CNT-400-Flex braided cable

Product Classification

| | |
|----------------------|-------------------------|
| Product Type | Braided cable connector |
| Product Brand | CNT® |

General Specifications

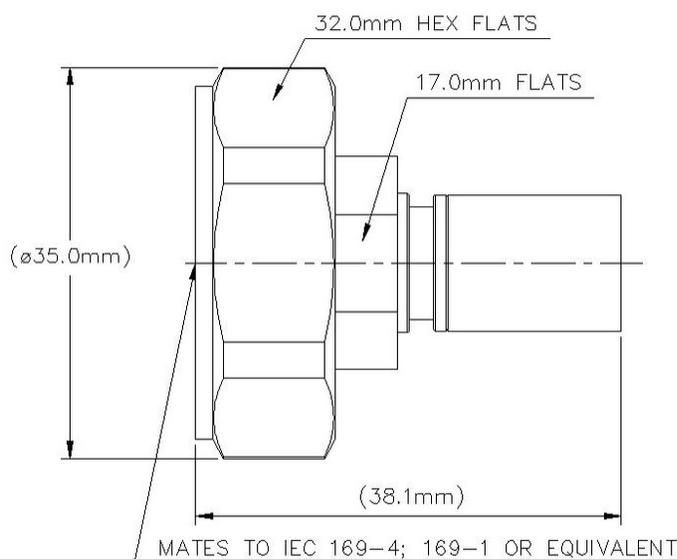
| | |
|--|---------------|
| Body Style | Straight |
| Inner Contact Attachment Method | Solder |
| Inner Contact Plating | Silver |
| Interface | 7-16 DIN Male |
| Outer Contact Attachment Method | Crimp |
| Outer Contact Plating | Trimetal |

Dimensions

| | |
|---------------------|---------------------|
| Width | 35 mm 1.378 in |
| Length | 38.12 mm 1.501 in |
| Diameter | 35 mm 1.378 in |
| Nominal Size | 0.405 in |

Outline Drawing

400BPDM-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 | 2500 V |
| Inner Contact Resistance, maximum | 1.5 mOhm |
| Insulation Resistance, minimum | 10000 MOhm |
| Operating Frequency Band | 0 – 6000 MHz |
| Outer Contact Resistance, maximum | 0.4 mOhm |
| RF Operating Voltage, maximum (vrms) | 894 V |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 0–3000 MHz | 1.08 | 28.3 |
| 3000–6000 MHz | 1.2 | 20.83 |

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Mechanical Specifications

| | |
|--|------------------------|
| Connector Retention Tensile Force | 330 N 74.187 lbf |
| Connector Retention Torque | 0.56 N-m 4.956 in lb |
| Coupling Nut Proof Torque | 35 N-m 309.776 in lb |
| Coupling Nut Proof Torque Method | IEC 61169-4:9.3.6 |
| Coupling Nut Retention Force | 1000 N 224.809 lbf |
| Coupling Nut Retention Force Method | IEC 61169-4:15.2.6 |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:17 |
| 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 | 57.2 g 0.126 lb |
|--------------------|-------------------|

Regulatory Compliance/Certifications

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

* Footnotes

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