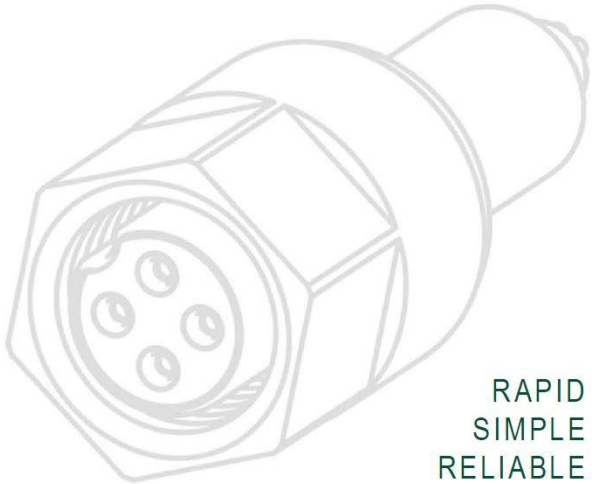
MicroCom
Circular Connector

Welcome



RAPID
SIMPLE
RELIABLE
ECONOMICAL

comtronic
VERBINDUNGSTECHNIK

Comtronic GmbH

2000 Founded

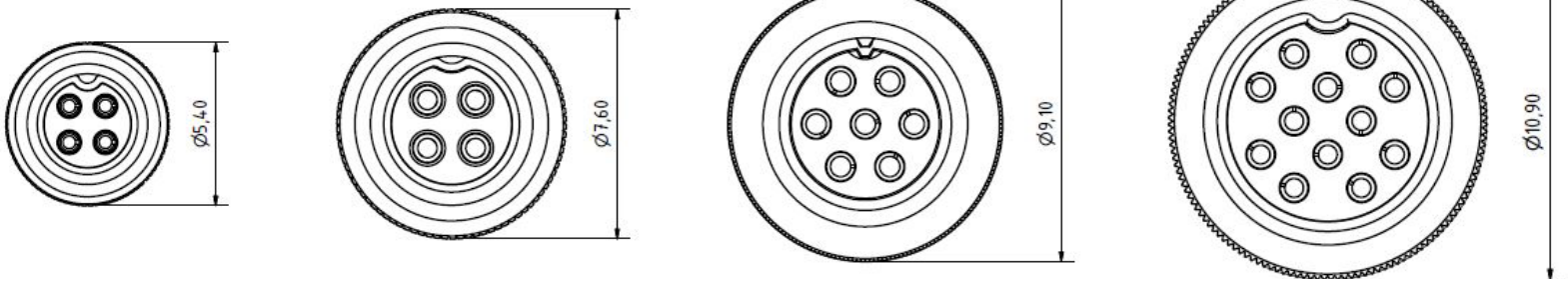
2001 Starts own Micro-D production

2002 Starts the production of MicroCom series

22 employees

450 sq.m

Ultra miniature high reliable



Dimensions in mm

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EEE - Components

- **Temperature strength**

-55°C up to 250°C (hermetic sealed up to 360°C)

- **Mechanical stress**

Vibration acc. to Mil Std. 810, method 214 test condition B (15g´s).

No discontinuity in excess of 1 microsecond.

Shock acc. to Mil Std. 810, method 516.6, 200g´s. No evidence of damage.

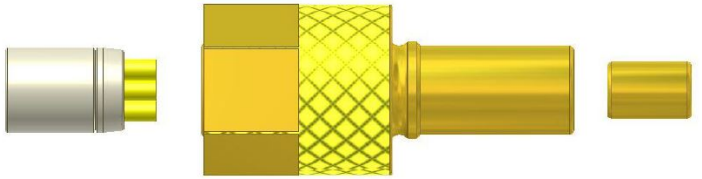
- **Electrical Per MIL-C-22557**

Rated working voltage	400V (sea level)
Dielectric withstanding	1.000 V (sea level)
Contact current rating	3 amp / 4 amp

- **Cost-effective**

Simple to assemble with a minimum of loose parts

assembled simply and rapidly, economical self assembly



- **Radiation resistent**

Outstanding EMC shielding, Materials of:

Housing: Brass per QQ-B-626.

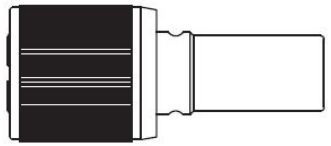
Insulator: PEEK per MIL-P-46183 type "I".

Contacts: Copper alloy (CuZn38Pb2-R410) / (CuZn36Pb3).

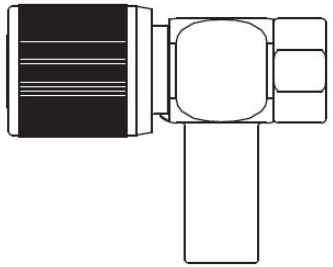
Plating: Gold per MIL-G-45204 type "II", class "I". 1,27µ over 3µ Nickel

Shell plug style

B - Cable connector, standard nut

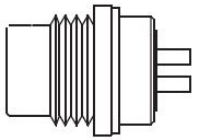


G - Cable connector, 90° offset, hexagon nut

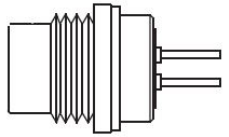


Shell receptacle style

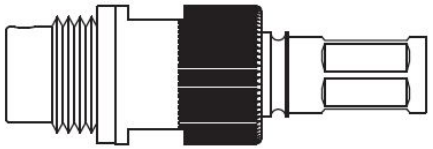
E - Solder mount



C - PCB mounting

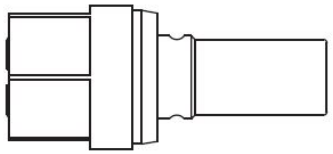


B - Cable connector

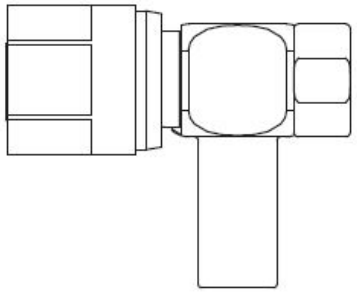


Style for assembly with def. tightening torgue

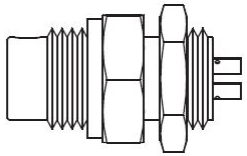
BS - Cable connector, hexagon nut



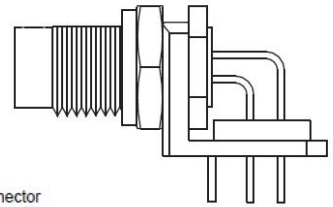
GS - Cable connetcor, 90° offset, hexagon nut



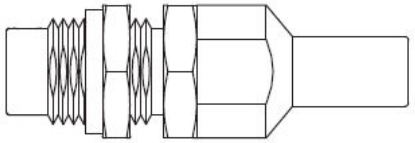
D - Device mount



F - PCB mount, 90° offset



DB - Device mount, cable connector



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References

- **JUICE**

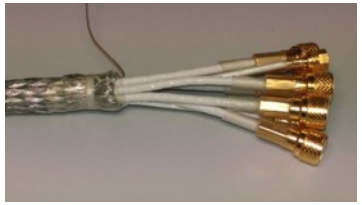
The Jupiter Icy Moons Explorer (JUICE) is a mission chosen in the framework of the Cosmic Vision 2015-2025 programme of the Science and Robotic Exploration Directorate of the European Space Agency.

The Submillimetre Wave Instrument (SWI) is a spectrometer/radiometer instrument operating in two submillimetre channels around 530 and 255 µm. The SWI measures spectra and continuum emissions in two bands between 530 – 625 and 1080 – 1275 GHz.

The SWI will be the first instrument using the circular CMRM/CMR connectors for biasing the 1200 GHz and 600 GHz heterodyne receivers components.

- **Requirements for the SWI Receiver Unit (RU)**

- Gamma 5-100 Mrad
- Size and weight
- Reliability



- **Others**

TerraSAR Tandem, Galileo, Orion

Thank you for your attention

Do you know our Micro-D Connectors?

- ITAR free
- Acc. to ESCC in process
- Acc. to MIL-DTL-83513

Contact:

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