VACOM®

Micro-D Feedthroughs

EN

Multipin Feedthroughs according to MIL-DTL-83513

- Extremely high contact density along with low weight
- UHV-suitable and temperature resistant due to glass-ceramic-to-metal sealing
- Eight shell sizes with 9 up to 100 contacts available
- Double-sided connection for plug connector
- Exclusively non-magnetic materials

NICHTS ist unerreich*bar.*

Technical Data

■ **Material Shell**	Stainless steel 304
■ **Material Contacts**	Copper alloy (gold plated)
■ **Material Insulation**	Glass-ceramic
■ **Max. Current/Pin**	2 A
■ **Max. Voltage**	300 V DC
■ **Max. Bakeout Temperature**	350 °C
■ **Operating Temperature**	-269 °C to 200 °C
■ **Vacuum Pressure Range**	$1 \cdot 10^{-4}$ to $1 \cdot 10^{-12}$ mbar
■ **Helium Leak Rate**	$< 1 \cdot 10^{-9}$ mbar l/s
■ **Shell Sizes**	9, 15, 21, 25, 31, 37, 51, 100 Contacts
■ **Installation**	■ Weldable ■ On KF-/ISO-/CF-/QCF-flange

Accessories

Example: Connector PLUG-MDTL-25

Air Side Connector

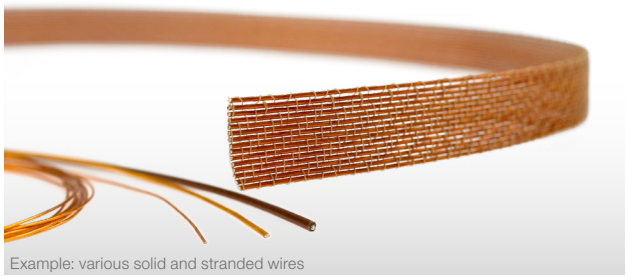
Contacts (pins) made of copper alloy (gold plated),
Insulation made of glass fiber reinforced plastic,
Temperature range from -55 °C to 125 °C,
Max. current/pin: 2 A,
Pressure range: atmosphere

Example: Connector PLUG-MDTL-15-P

Vacuum Side Connector*

Contacts (sockets) made of copper alloy (gold-plated),
Shell made of PEEK,
Temperature range from -200 °C to 200 °C,
Max. current/pin: 2 A,
Pressure range: High and Ultra High Vacuum

* **Notice:** the vacuum side of the Micro-D feedthroughs is **not compatible** with standard MIL-DTL-83513 connectors!



Example: various solid and stranded wires

Solid and Stranded Wires

Polyimide (Kapton®)-insulated

Example: connector with cable PLUG-MDTL-xx-P-ASSY

Vacuum Side Cable Assemblies

Connector made of PEEK,
Assembled with polyimide (Kapton®) cable

Additional Accessories

Micro-D Crimp Contacts

Single crimp contacts (sockets) in sets of 25 pieces

Crimping Tool

Crimping tool with contact locator

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