

Spectrum Elektrotechnik GmbH offers a wide range of hermetically sealed adapters to the hermeticity of 10⁻⁸ atm. cm³/s minimum. The Adapters use fused in glass seals between center contact and outer conductor. This ensures complete hermeticity of the units. The adapters are normally used at vacuum chambers testing products that are used for testing products for outer space applications and the personnel staying outside the chamber at regular environment. Available connector styles are 1.85mm, 2.4mm, 2.92mm, N and TNC, other connector styles can be manufactured on request.

INTERFACE MATING DIMENSIONS: per MIL-STD-348A

REQUIREMENT	GENERAL SPECIFICATIONS
Materials	<p>STEEL corrosion resistant 1.4305 per DIN EN 10088; ASTM-A582 (303), or 1.4404 (316L) respectively.</p> <p>ASTM F 15 Alloy (Kovar)</p> <p>Borosilicate per in-house specifications</p> <p>BRASS CuZn39Pb3 per DIN 17660 (QQ-B-626 (ASTM-B124), half hard).</p> <p>COPPER BERYLLIUM 33-25 CuBe2PbH per DIN17666(DIN CEN/TS;DIN SPEC 9700)(QQ-C530).</p> <p>TFE Fluorocarbon per DIN 52900 (ASTM-D-1710)</p> <p>SILICONE RUBBER per DIN ISO 3601(A-A-59588,Class IIB) Gr. 50 - 75.</p> <p>BORIUM NITRIDE Dielectric for high power applications per in-house specification</p> <p>Sn95Ag4Cu1 Solder</p>
Finish	<p>COPPER BERYLLIUM: Center Contacts shall be gold plated to a minimum thickness of 0.00005 inch (1.25 µm) in accordance with ASTM-B-488, Type III, Code C, Class 1.25</p> <p>STAINLESS STEEL: Outer conductor is gold plated to a thickness of 0.0000315 inch (0.8 µm) min. gold plating per ASTM B 488.</p> <p>ASTM F 15: Gold plated to a thickness of 0.000315 inch (0.8 µm) min. gold plating per ASTM B 488.</p>
ELECTRICAL	
Impedance	50 Ohms
Other:	Please refer to the individual Data Sheets
ENVIRONMENTAL	
General	Meets MIL-PRF-39012 for Corrosion (§ 3.13), Vibration (§ 3.18), Mechanical Shock (§ 3.19), Moisture Resistance
Temperature Range:	The Adapters pass the Helium leak test of 10 ⁻⁸ cm ³ /sec at 1atm -54 C° to +115 C°

Dimensions shown are Inches over Millimeters or vice versa. Standard units have stainless finish (last 2 digits of the P/N are -02). Interfaces are per DIN 47 223, DIN 47 226, IEC 169-4, IEC 169-7, IEC 169-8, IEC 457-2, IEC 60169-5, IEEE 287, MIL-PRF-39012, MIL DTL-24044, MIL DTL-3643, MIL-STD-348B, where applicable

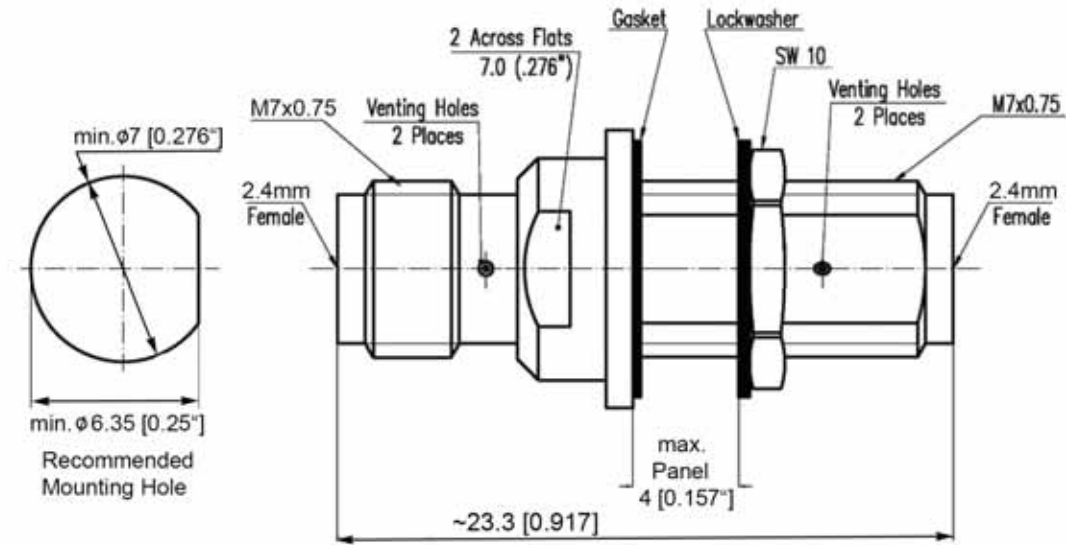
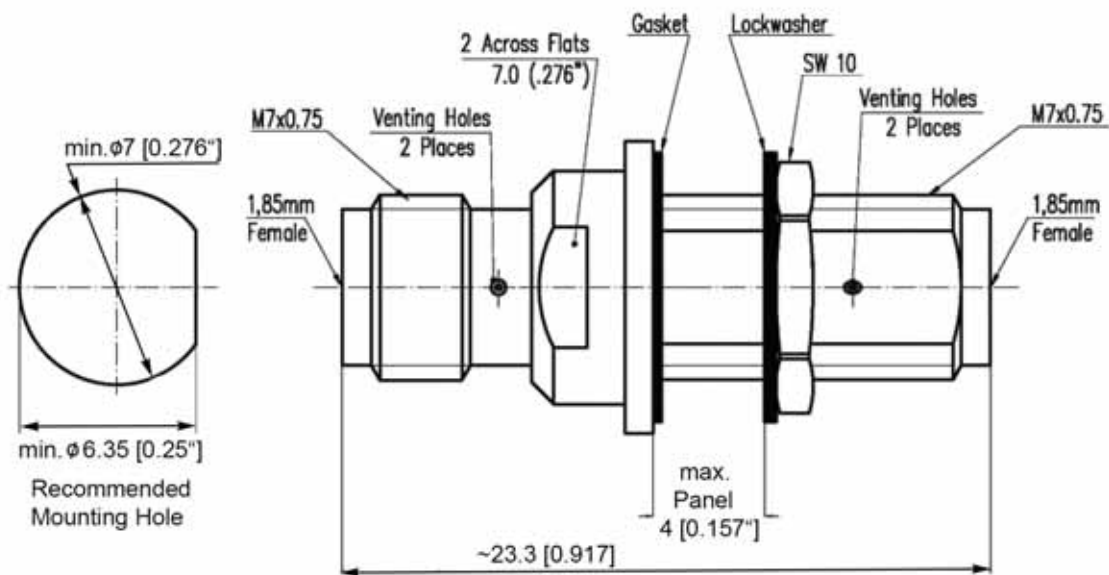
Hermetically sealed Adapters

Hermeticity: 10⁻⁵ atm.cm³/s min. or 10⁻⁸ atm.cm³/s min.



Available 1.85 mm, 2.4 mm, 2.92 mm, TNC and N Bulkhead Feedthroughs and 4-hole flange as well with and without venting holes for Vacuum Test Chambers.

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Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-VFVF-00

1.85 mm female to 1.85 mm female bulkhead feedthrough, with venting holes DC to 65.0 GHz, VSWR: 1.3 : 1 typ.

8H01-VFVF-00

1.85 mm female to 1.85 mm female bulkhead feedthrough, without venting holes DC to 65.0 GHz, VSWR: 1.3 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

8H1V-VFVF-00

1.85 mm female to 1.85 mm female bulkhead feedthrough, with venting holes DC to 65.0 GHz, VSWR: 1.3 : 1 typ.

8H11-VFVF-00

1.85 mm female to 1.85 mm female bulkhead feedthrough, without venting holes DC to 65.0 GHz, VSWR: 1.3 : 1 typ.

You need something different? You need technical assistance?

You will find immediate assistance from our Marketing and Engineering Team. Please give us a call, send us a fax, or an E-mail.

Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-HFHF-00

2.4 mm female to 2.4 mm female bulkhead feedthrough, with venting holes DC to 50.0 GHz, VSWR: 1.3 : 1 typ.

8H01-HFHF-00

2.4 mm female to 2.4 mm female bulkhead feedthrough, without venting holes DC to 50.0 GHz, VSWR: 1.3 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

8H1V-HFHF-00

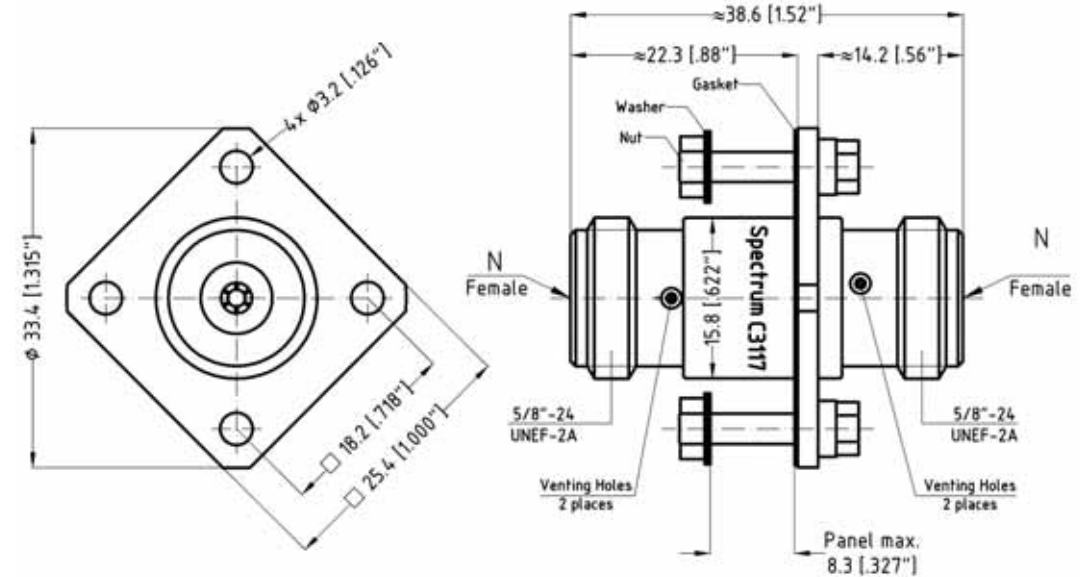
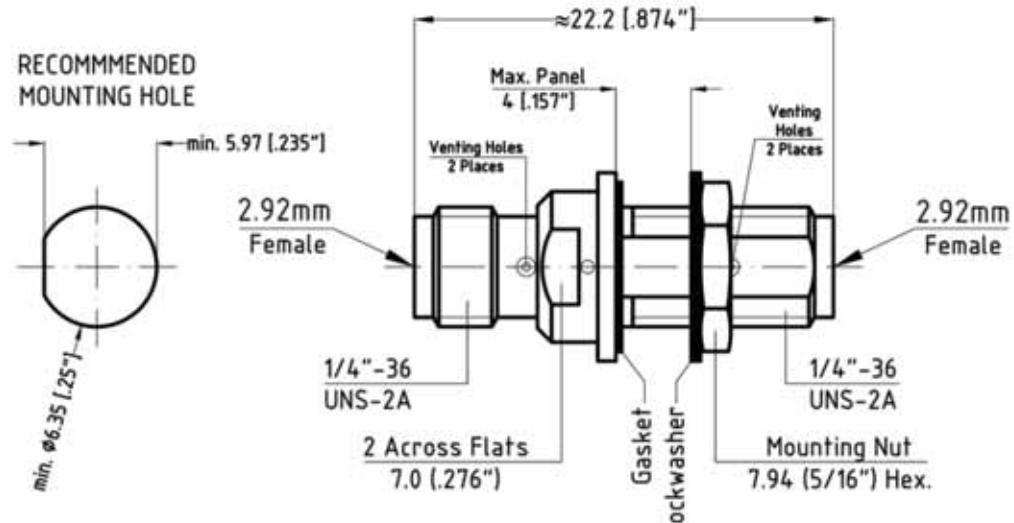
2.4 mm female to 2.4 mm female bulkhead feedthrough, with venting holes DC to 50.0 GHz, VSWR: 1.3 : 1 typ.

8H11-HFHF-00

2.4 mm female to 2.4 mm female bulkhead feedthrough, without venting holes DC to 50.0 GHz, VSWR: 1.3 : 1 typ.

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Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-KFKF-00

2.92 mm female to 2.92 mm female bulkhead feedthrough, with venting holes DC to 40.0 GHz, VSWR: 1.15 : 1 typ.

8H01-KFKF-00

2.92 mm female to 2.92 mm female bulkhead feedthrough, without venting holes DC to 40.0 GHz, VSWR: 1.15 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

8H1V-KFKF-00

2.92 mm female to 2.92 mm female bulkhead feedthrough, with venting holes DC to 40.0 GHz, VSWR: 1.15 : 1 typ.

8H11-KFKF-00

2.92 mm female to 2.92 mm female bulkhead feedthrough, without venting holes DC to 40.0 GHz, VSWR: 1.15 : 1 typ.

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Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-6161-00

N female to N female 4-Hole Flange, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H01-6161-00

N female to N female 4-Hole Flange, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H5V-6161-00

N female to N female, High Power 4-Hole Flange, with venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

8H52-6161-00

N female to N female 4-Hole Flange, without venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

8H1V-6161-00

N female to N female 4-Hole Flange, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H11-6161-00

N female to N female 4-Hole Flange, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

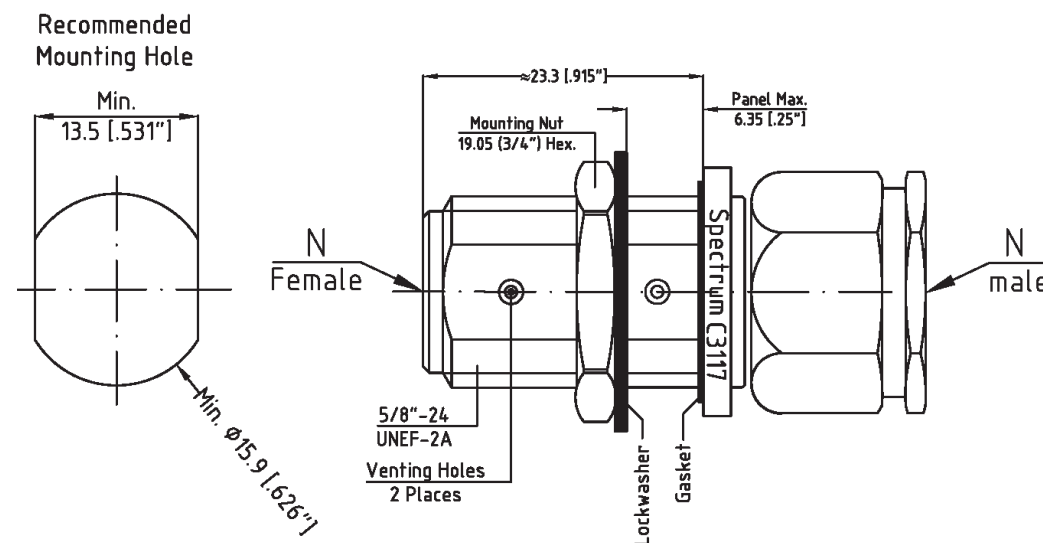
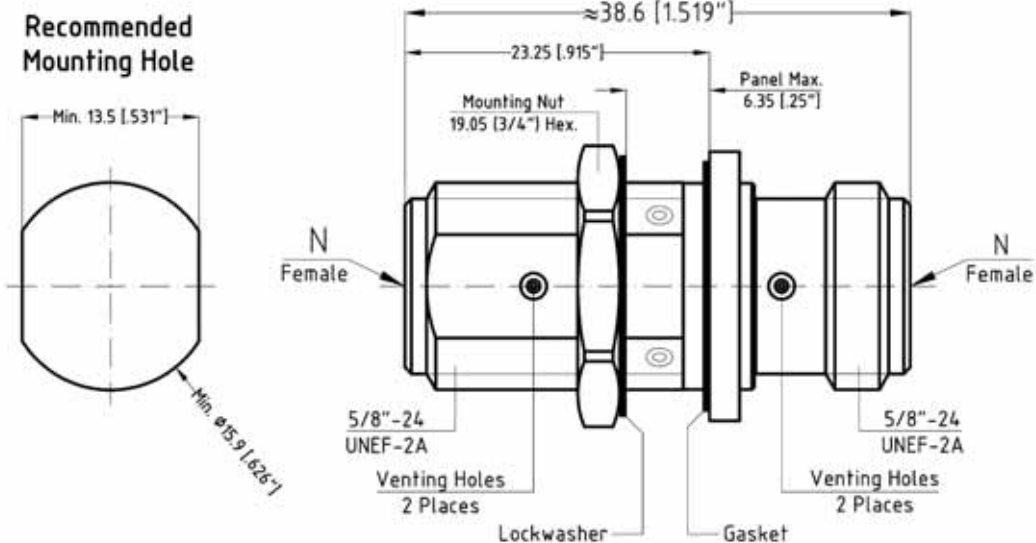
8H6V-6161-00

N female to N female, High Power 4-Hole Flange, with venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

8H61-6161-00

N female to N female 4-Hole Flange, without venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

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Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-6061-00	N female to N female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H02-6061-00	N female to N female bulkhead feedthrough, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H5V-6061-00	N female to N female, High Power bulkhead feedthrough, with venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.
t. b. d. a. r. o.	N female to N female bulkhead feedthrough, without venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

8H2V-6061-00	N female to N female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H12-6061-00	N female to N female bulkhead feedthrough, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H6V-6061-00	N female to N female, High Power bulkhead feedthrough, with venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.
8H3V-6061-00	N female to N female bulkhead feedthrough, without venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

Dimensions shown are Inches over Millimeters or vice versa. Standard units have stainless finish (last 2 digits of the P/N are -02). Interfaces are per DIN 47 223, DIN 47 226, IEC 169-4, IEC 169-7, IEC 169-8, IEC 457-2, IEC 60169-5, IEEE 287, MIL-PRF-39012, MIL DTL-24044, MIL DTL-3643, MIL-STD-348B, where applicable

Hermeticity of 10^{-8} atm. cm³/s min.

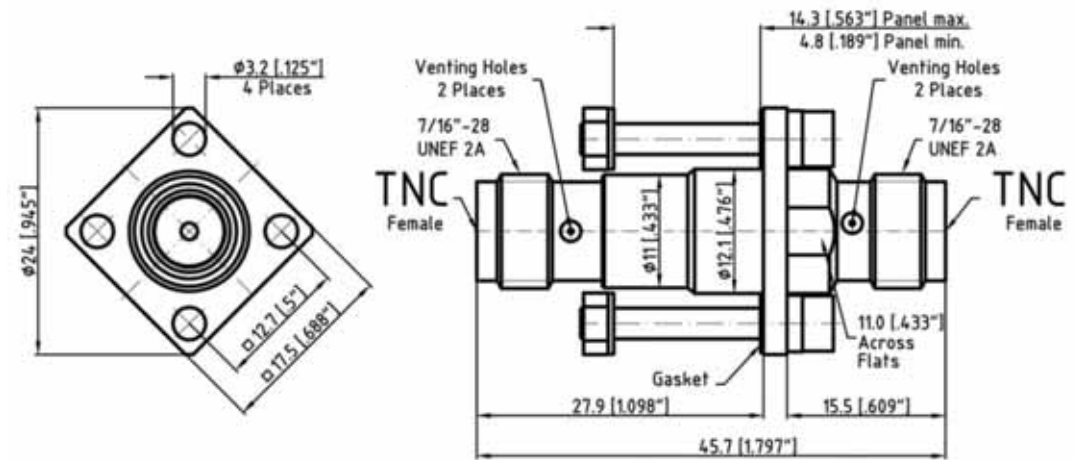
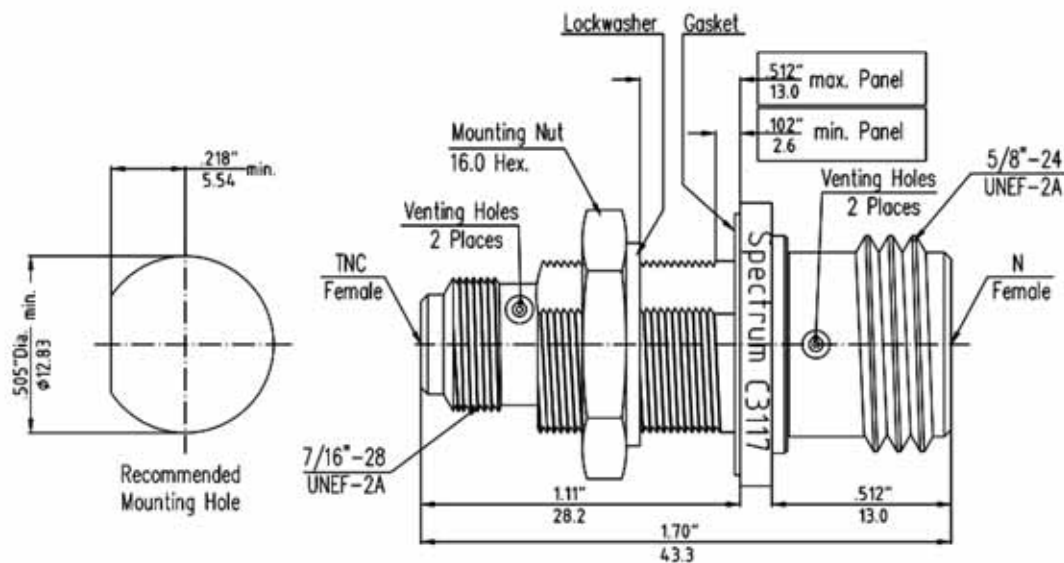
8H0V-5160-00	N male to N female bulkhead feedthrough, with venting holes DC to 13.0 GHz; VSWR: 1.15:1 typ.
8H1V-5160-00	N male to N female bulkhead feedthrough, with venting holes DC to 13.0 GHz; VSWR: 1.15:1 typ.

Spectrum Elektrotechnik GmbH offers a wide range of cable assemblies for use in thermovac applications.

With your inquiry please advise specification needed:

- Length of the assembly and connector configuration
- Max. insertion loss vs. frequency required
- Max. VSWR vs. frequency
- Power vs. frequency

Dimensions shown are Inches over Millimeters or vice versa. Standard units have stainless finish (last 2 digits of the P/N are -02). Interfaces are per DIN 47 223, DIN 47 226, IEC 169-4, IEC 169-7, IEC 169-8, IEC 457-2, IEC 60169-5, IEEE 287, MIL-PRF-39012, MIL DTL-24044, MIL DTL-3643, MIL-STD-348B, where applicable



Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-4161-00 TNC female to N female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H01-4161-00 TNC female to N female bulkhead feedthrough, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

8H1V-4161-00 TNC female to N female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H11-4161-00 TNC female to N female bulkhead feedthrough, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

Spectrum Elektrotechnik GmbH offers a wide range of cable assemblies for use in thermovac applications. With your inquiry please advise specification needed:

- Length of the assembly and connector configuration
- Max. insertion loss vs. frequency
- Max. VSWR vs. frequency
- Power vs. frequency
- Environment, such as altitude and temperature

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Hermeticity of 10^{-8} atm. cm³/s min.

8H0V-4141-00 [8H01-4141-00=No Venting] TNC female to TNC female 4-hole flange, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H02-4141-00 TNC female to TNC female 4-hole flange, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H5V-4141-00 TNC female to TNC female, High Power 4-hole flange, with venting holes, DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

8H52-4141-00 TNC female to TNC female, High Power 4-hole flange, without venting holes, DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

Hermeticity of 10^{-5} atm. cm³/s min.

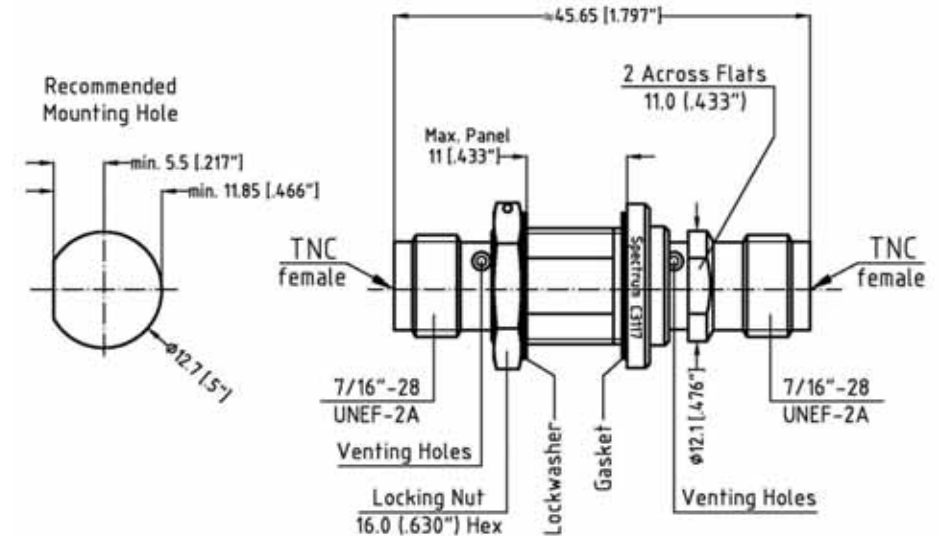
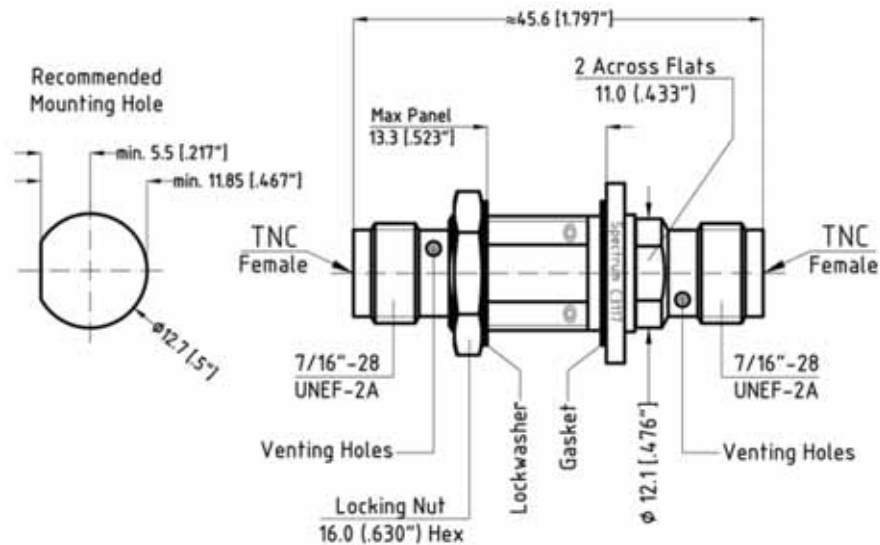
8H2V-4141-00 TNC female to TNC female 4-hole flange, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H12-4141-00 TNC female to TNC female 4-hole flange, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.

8H7V-4141-00 TNC female to TNC female, High Power 4-hole flange, with venting holes, DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

8H71-4141-00 TNC female to TNC female, High Power 4-hole flange, without venting holes, DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

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Hermeticity of 10^{-8} atm. cm^3/s min.

8H3V-4141-00	TNC female to TNC female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H03-4141-00	TNC female to TNC female bulkhead feedthrough, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H6V-4141-00	TNC female to TNC female, High Power bulkhead feedthrough, with venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.
8H60-4141-00	TNC female to TNC female, High Power bulkhead feedthrough, without venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

Hermeticity of 10^{-5} atm. cm^3/s min.

8H4V-4141-00	TNC female to TNC female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H13-4141-00	TNC female to TNC female bulkhead feedthrough, without venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
8H8V-4141-00	TNC female to TNC female, High Power bulkhead feedthrough, with venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.
8H81-4141-00	TNC female to TNC female, High Power bulkhead feedthrough, without venting holes DC to 12.0 GHz, VSWR: 1.15 : 1 typ.

Dimensions shown are Inches over Millimeters or vice versa. Standard units have stainless finish (last 2 digits of the P/N are -02). Interfaces are per DIN 47 223, DIN 47 226, IEC 169-4, IEC 169-7, IEC 169-8, IEC 457-2, IEC 60169-5, IEEE 287, MIL-PRF-39012, MIL DTL-24044, MIL DTL-3643, MIL-STD-348B, where applicable

Hermeticity of 10^{-8} atm. cm^3/s min.

8H1V-4141-00	TNC female to TNC female, High Power bulkhead feedthrough, with venting holes, DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
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Hermeticity of 10^{-5} atm. cm^3/s min.

t. b. d.	TNC female to TNC female bulkhead feedthrough, with venting holes DC to 18.0 GHz, VSWR: 1.15 : 1 typ.
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