

Issue 2019-06-13



*Innovation in
Microwave
Engineering*

Hermetically Sealed Adapters

2019



**1.85mm, 2.4mm, 2.92mm,
TNC and N BFJ & 4-H-Flg.**
with & without venting holes, as used at Test Chambers

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Hermetically Sealed Adapters Cover

Hermetically sealed Adapters

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 intended for outer space with the testing equipment and the personnel staying at regular environment. Available connector styles 1.85mm, 2.4mm, 2.92mm, N and TNC.

GENERAL SPECIFICATIONS:

INTERFACE MATING DIMENSIONS: per MIL-STD-348A

MATERIALS:

Steel corrosion resistant 1.4305 per DIN EN 10088-3 (ASTM-A-582-80)

ASTM F 15 Alloy (Kovar)

Copper Beryllium 33-25 CuBe2Pb H per DIN 17666 (ASTM B 196).

TFE Fluorocarbon per (ASTM D 1710) (only certain units)

Silicone Rubber per DIN 3771 (A-A-59588A, Class 2B,) Grade 50 - 75.

Borosilicatglas per in-house specifications

FluoropolyBN: Borium Nitrite sintered PTFE (only high power units for best heat dissipation)

Sn95Ag4Cu1 Solder

FINISH:

Copper Beryllium Parts: Center Contacts shall be gold plated to a minimum thickness of 0.00005 inch (1.25 μm) in accordance with ASTM B 488, Type 3, Code C, Class 1.25.

Stainless Steel: Outer conductor is gold plated to a thickness of 0.0000315 inch (0.8 μm) min. gold plating per ASTM B 488.

ASTM F 15: gold plated to a thickness of 0.000315 inch (0.8 μm) min. gold plating per ASTM B 488.

ENVIRONMENTAL:

Meets MIL-PRF-39012 for Corrosion (§ 3.13), Vibration (§ 3.18), Mechanical Shock (§ 3.19), Moisture Resistance

The Adapters pass the Helium leak test of 10-8 cm³/sec at 1atm

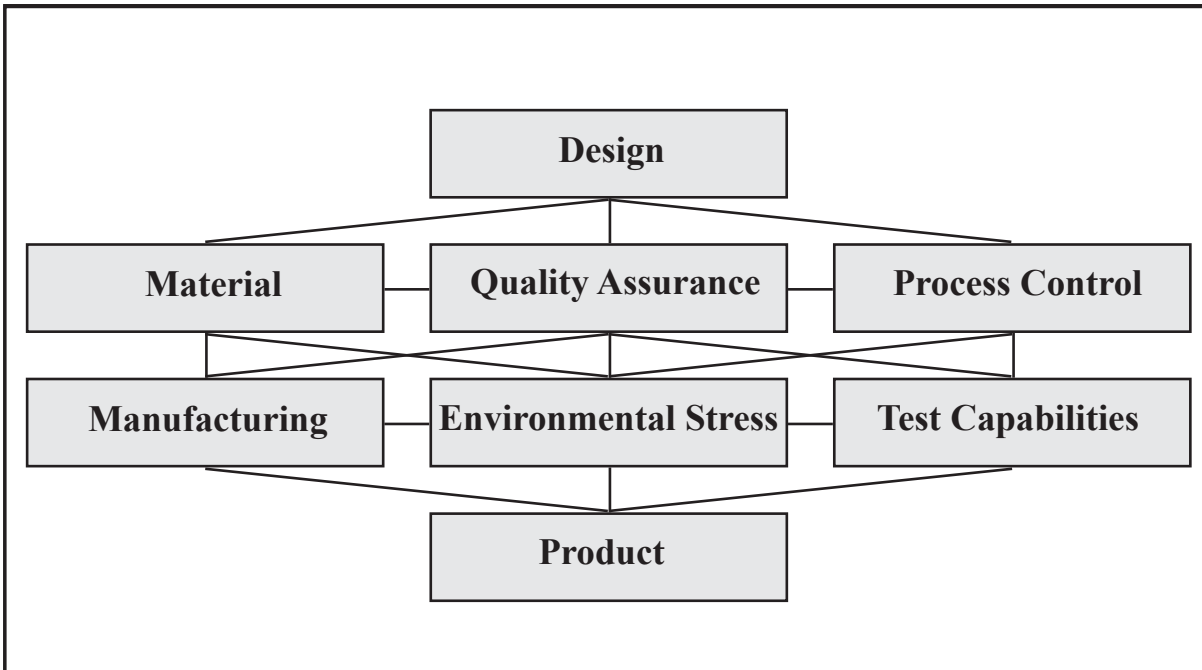
Temperature Range: -54 C° to +115 C°

ELECTRICAL:

Impedance: 50 Ohms

Other: Please refer to the individual Data Sheets

Part Number	Description	Hermeticity	Frequency Range (GHz)	Page
8H01-4161-00	Hermetically sealed Adapter	10-8	DC to 18	11
8H01-6161-00	Hermetically sealed Adapter	10-8	DC to 18	9
8H01-HFHF-00	Hermetically sealed Adapter	10-8	DC to 50	7
8H01-KFKF-00	Hermetically sealed Adapter	10-8	DC to 40	8
8H01-VFVF-00	Hermetically sealed Adapter	10-8	DC to 65	6
8H02-4141-00	Hermetically sealed Adapter	10-8	DC to 18	12
8H02-6061-00	Hermetically sealed Adapter	10-8	DC to 18	10
8H0V-4141-00	Hermetically sealed Adapter	10-8	DC to 18	12
8H0V-4161-00	Hermetically sealed Adapter	10-8	DC to 18	11
8H0V-6061-00	Hermetically sealed Adapter	10-8	DC to 12	10
8H0V-6161-00	Hermetically sealed Adapter	10-8	DC to 18	9
8H0V-HFHF-00	Hermetically sealed Adapter	10-8	DC to 50	7
8H0V-KFKF-00	Hermetically sealed Adapter	10-8	DC to 40	8
8H0V-VFVF-00	Hermetically sealed Adapter	10-8	DC to 65	6
8H11-4161-00	Hermetically sealed Adapter	10-5	DC to 18	11
8H11-6161-00	Hermetically sealed Adapter	10-5	DC to 18	9
8H11-HFHF-00	Hermetically sealed Adapter	10-5	DC to 50	7
8H11-KFKF-00	Hermetically sealed Adapter	10-5	DC to 40	8
8H11-VFVF-00	Hermetically sealed Adapter	10-5	DC to 65	6
8H12-4141-00	Hermetically sealed Adapter	10-5	DC to 18	13
8H12-6061-00	Hermetically sealed Adapter	10-5	DC to 18	10
8H1V-4161-00	Hermetically sealed Adapter	10-5	DC to 18	11
8H1V-6061-00	Hermetically sealed Adapter	10-8	DC to 18	10
8H1V-6161-00	Hermetically sealed Adapter	10-5	DC to 18	9
8H1V-HFHF-00	Hermetically sealed Adapter	10-5	DC to 50	7
8H1V-KFKF-00	Hermetically sealed Adapter	10-5	DC to 40	8
8H1V-VFVF-00	Hermetically sealed Adapter	10-5	DC to 65	6
8H2V-4141-00	Hermetically sealed Adapter	10-5	DC to 18	13
8H2V-6061-00	Hermetically sealed Adapter	10-5	DC to 18	10
8H3V-6061-00	Hermetically sealed Adapter	10-5	DC to 12	10
8H52-4141-00	Hermetically sealed Adapter	10-8	DC to 13,8	12
8H52-6161-00	Hermetically sealed Adapter	10-8	DC to 12	9
8H5V-4141-00	Hermetically sealed Adapter	10-8	DC to 13,8	12
8H5V-6061-00	Hermetically sealed Adapter	10-8	DC to 12	10
8H5V-6161-00	Hermetically sealed Adapter	10-8	DC to 12	9
8H61-4141-00	Hermetically sealed Adapter	10-8	DC to 13,8	14
8H61-6161-00	Hermetically sealed Adapter	10-5	DC to 12	9
8H6V-4141-00	Hermetically sealed Adapter	10-8	DC to 13,8	14
8H6V-6061-00	Hermetically sealed Adapter	10-5	DC to 12	10
8H6V-6161-00	Hermetically sealed Adapter	10-5	DC to 12	9
8H71-4141-00	Hermetically sealed Adapter	10-5	DC to 13,8	13
8H7V-4141-00	Hermetically sealed Adapter	10-5	DC to 13,8	13
8H81-4141-00	Hermetically sealed Adapter	10-5	DC to 13,8	14
8H8V-4141-00	Hermetically sealed Adapter	10-5	DC to 13,8	14
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Design: Only a good design can be the basis for reliable products of good quality. To design state-of-the-art products most economically and most efficiently, new techniques are needed. Spectrum Elektrotechnik GmbH added CAD already in 1984, being one of the first companies, installing a CAD design center, and using now Inventor.

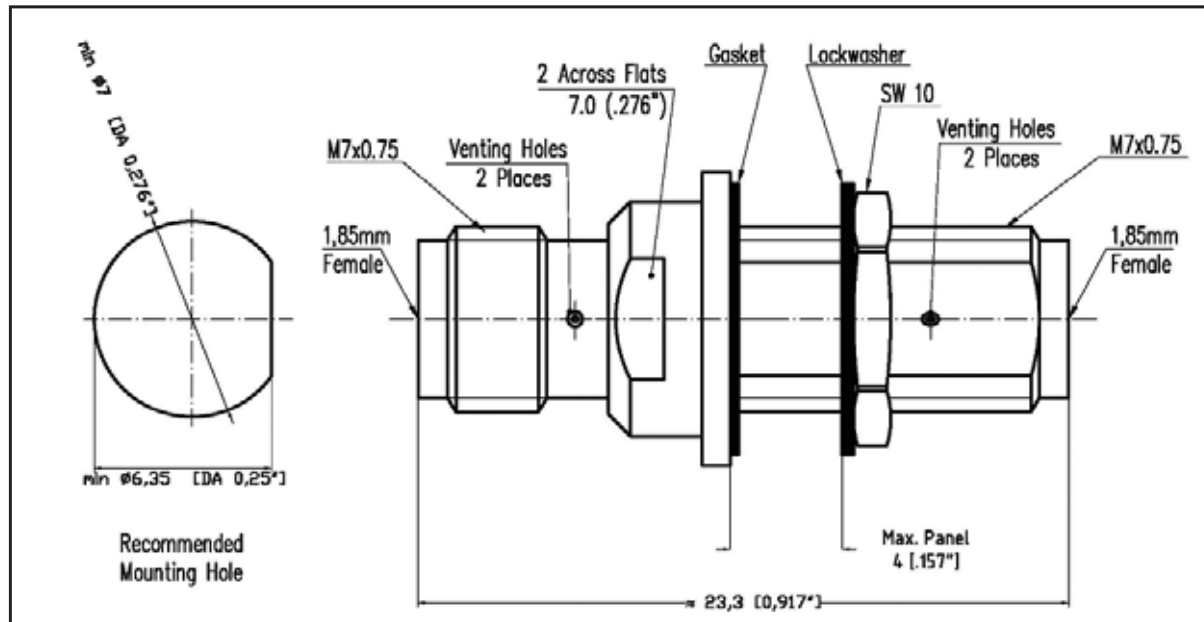


A perfect design, precise machining, accurate assembly and intense testing make a world class product, the product of **Spectrum**
Elektrotechnik GmbH



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Hermetically sealed Adapters 1.85 mm



Hermeticity of 10⁻⁸ atm. cm³/s min.

Bulkhead Feedthrough Jack	8H0V-VFVF-00	1.85 mm female/1.85 mm female with venting holes DC to 65.0 GHz, VSWR: 1.3:1 typ
	8H01-VFVF-00	1.85 mm female/1.85 mm female without venting holes DC to 65.0 GHz, VSWR: 1.3:1 typ

Limited Hermeticity of 10⁻⁵ atm. cm³/s min.

Bulkhead Feedthrough Jack	8H1V-VFVF-00	1.85 mm female/1.85 mm female with venting holes DC to 65.0 GHz, VSWR: 1.3:1 typ
	8H11-VFVF-00	1.85 mm female/1.85 mm female without venting holes DC to 65.0 GHz, VSWR: 1.3:1 typ

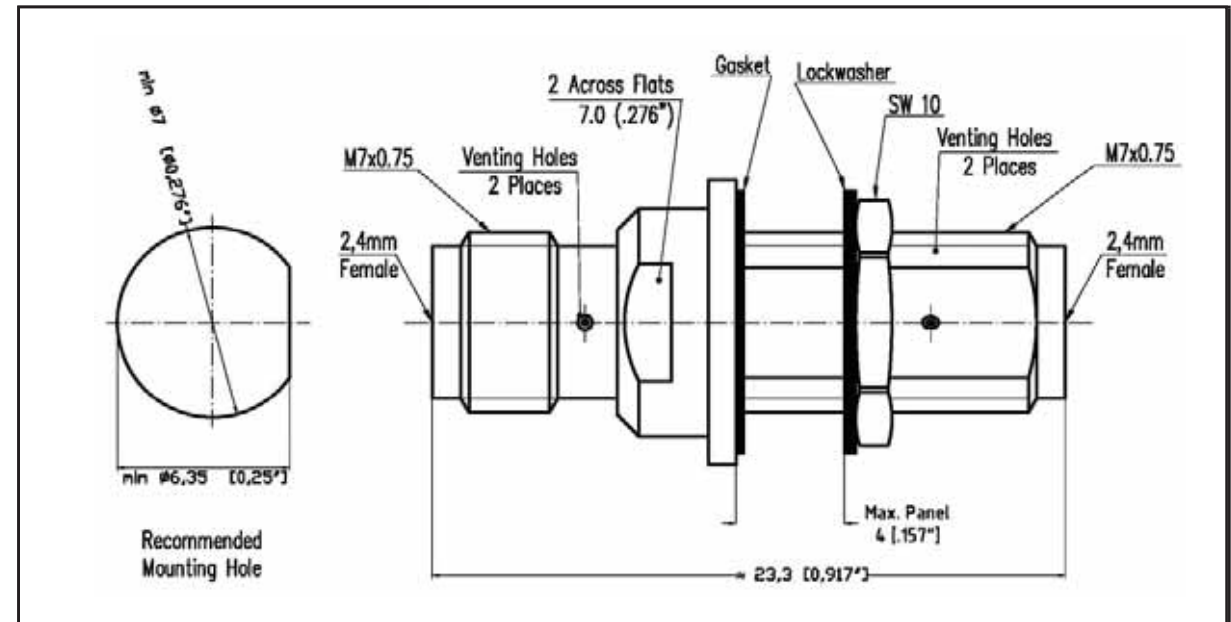
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You need technical assistance?**

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Email: sales@spectrum-et.com Web-Page: www-spectrum-et.com

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Hermetically sealed Adapters 2.4 mm



Hermeticity of 10⁻⁸ atm. cm³/s min.

Bulkhead Feedthrough Jack	8H0V-HFHF-00	2.4 mm female/2.4 mm female with venting holes DC to 50.0 GHz, VSWR: 1.3:1 typ
	8H01-HFHF-00	2.4 mm female/2.4 mm female without venting holes DC to 50.0 GHz, VSWR: 1.3:1 typ

Limited Hermeticity of 10⁻⁵ atm. cm³/s min.

Bulkhead Feedthrough Jack	8H1V-HFHF-00	2.4 mm female/2.4 mm female with venting holes DC to 50.0 GHz, VSWR: 1.3:1 typ
	8H11-HFHF-00	2.4 mm female/2.4 mm female without venting holes DC to 50.0 GHz, VSWR: 1.3:1 typ

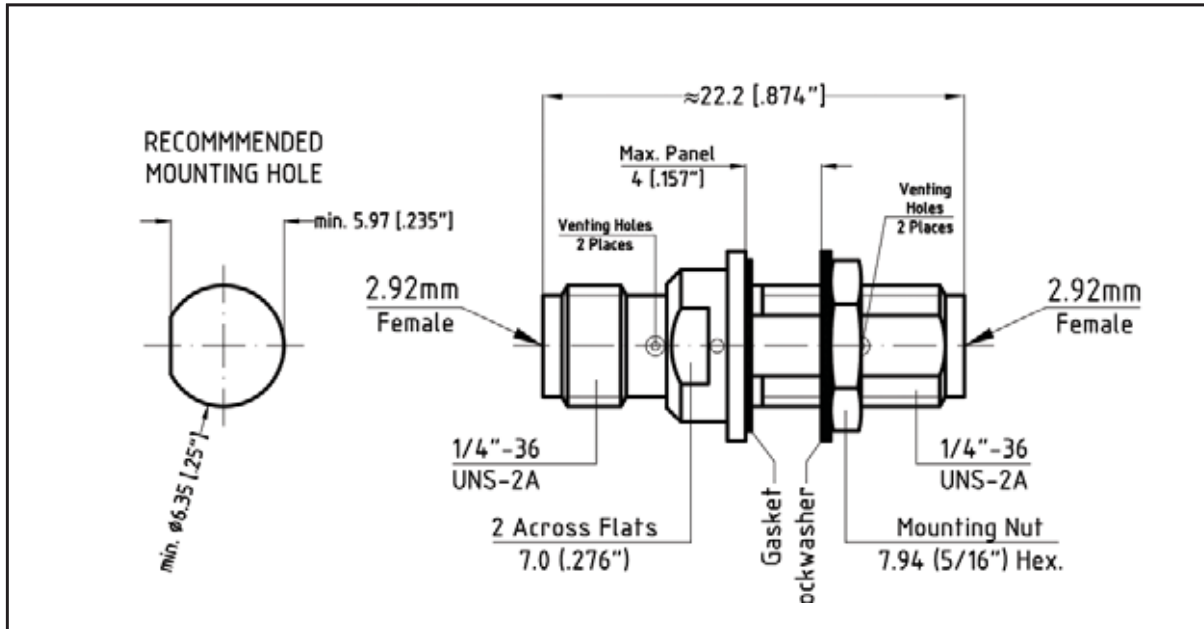
Spectrum Elektrotechnik GmbH offers a wide range of cable assemblies for use in thermovac applications.

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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Hermetically sealed Adapters 2.92 mm



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

	8H0V-KFKF-00	2.92 mm female/2.92 mm female BFJ with venting Holes, DC to 40.0 GHz, VSWR: 1.15:1 typ
	8H01-KFKF-00	2.92 mm female/2.92 mm female BFJ without venting Holes, DC to 40.0 GHz, VSWR: 1.15:1 typ

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

	8H1V-KFKF-00	2.92 mm female/2.92 mm female BFJ with venting Holes, DC to 40.0 GHz, VSWR: 1.15:1 typ
	8H11-KFKF-00	2.92 mm female/2.92 mm female BFJ without venting Holes, DC to 40.0 GHz, VSWR: 1.15:1 typ

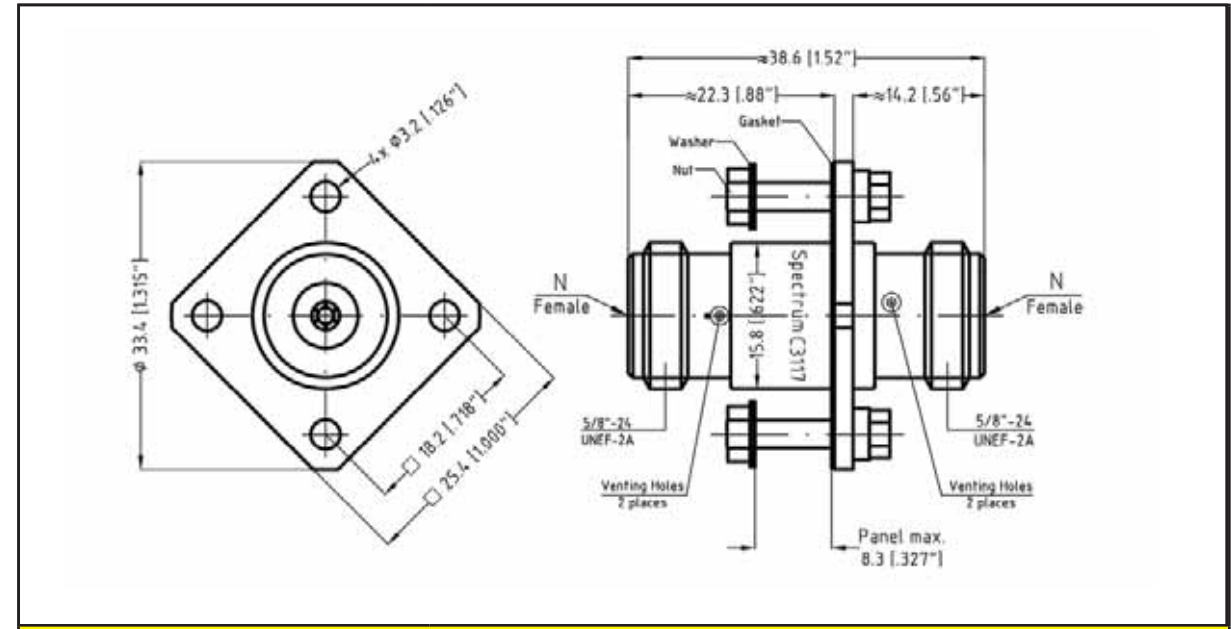
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Hermetically sealed Adapters N



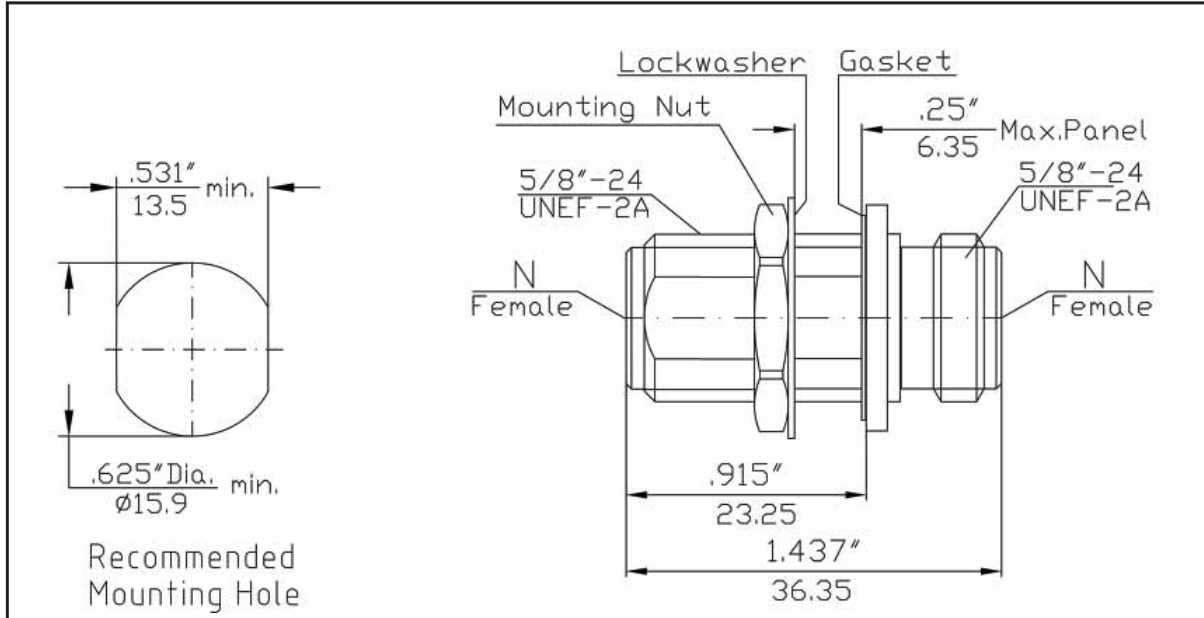
Hermeticity of 10^{-8} atm. cm³/s min.

	8H0V-6161-00	N female/N female, 4-Hole-Flange with venting Holes, High Power DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H01-6161-00	N female/N female, 4-Hole-Flange without venting Holes, High Power DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H5V-6161-00	N female/N female, 4-Hole-Flange with venting Holes, High Power DC to 12.0 GHz, VSWR: 1.15:1 typ
	8H52-6161-00	N female/N female, 4-Hole-Flange without venting Holes, High Power DC to 12.0 GHz, VSWR: 1.15:1 typ

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

	8H1V-6161-00	N female/N female, 4-Hole-Flange with venting Holes, High Power DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H11-6161-00	N female/N female, 4-Hole-Flange without venting Holes, High Power DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H6V-6161-00	N female/N female, 4-Hole-Flange with venting Holes, High Power DC to 12.0 GHz, VSWR: 1.15:1 typ
	8H61-6161-00	N female/N female, 4-Hole-Flange without venting Holes, High Power DC to 12.0 GHz, VSWR: 1.15:1 typ

Hermetically sealed Adapters N



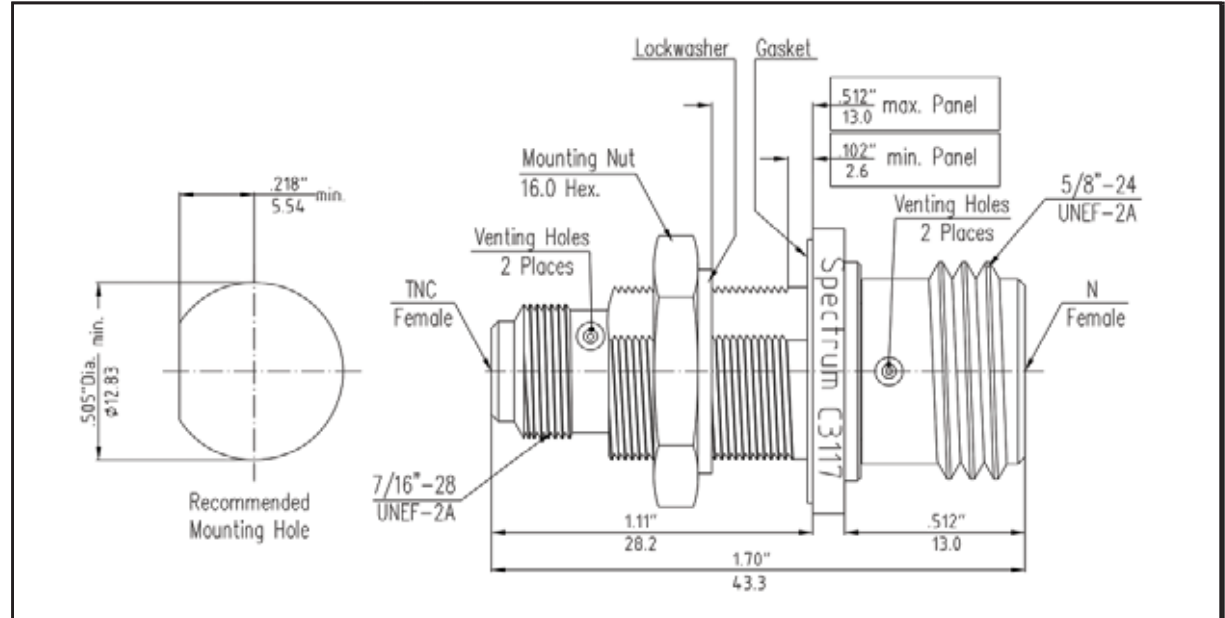
Hermeticity of 10^{-8} atm. cm³/s min.

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

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

	8H2V-6061-00	N female/N female, BFJ with venting Holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H12-6061-00	N female/N female, BFJ without venting Holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H6V-6061-00	N female/N female, BFJ with venting Holes, High Power DC to 12.0 GHz, VSWR: 1.15:1 typ
	8H3V-6061-00	N female/N female, BFJ with venting Holes DC to 12.0 GHz, VSWR: 1.15:1 typ

Hermetically sealed Adapters Between Series N/TNC



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

	8H0V-4161-00	TNC female/N female, BFJ with venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H01-4161-00	TNC female/N female, BFJ, without venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ

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

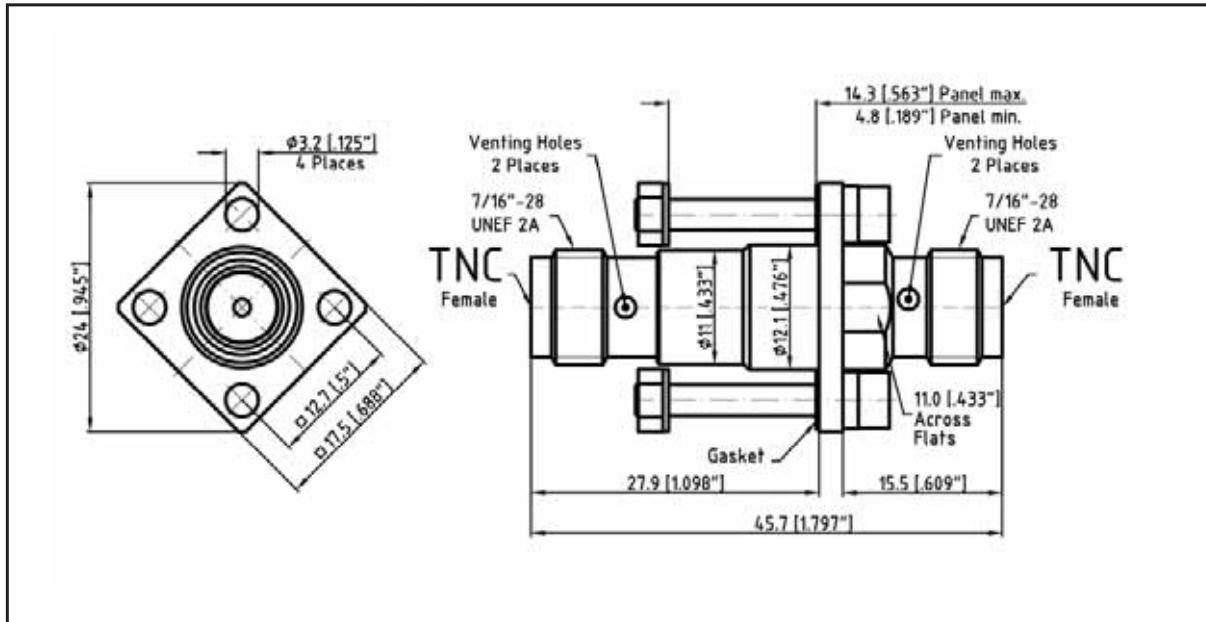
	8H1V-4161-00	TNC female/N female, BFJ with venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H11-4161-00	TNC female/N female, BFJ, without venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ

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


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- Max. VSWR vs. frequency
- Power vs. frequency
- Environment, such as altitude and temperature


Hermetically sealed Adapters TNC



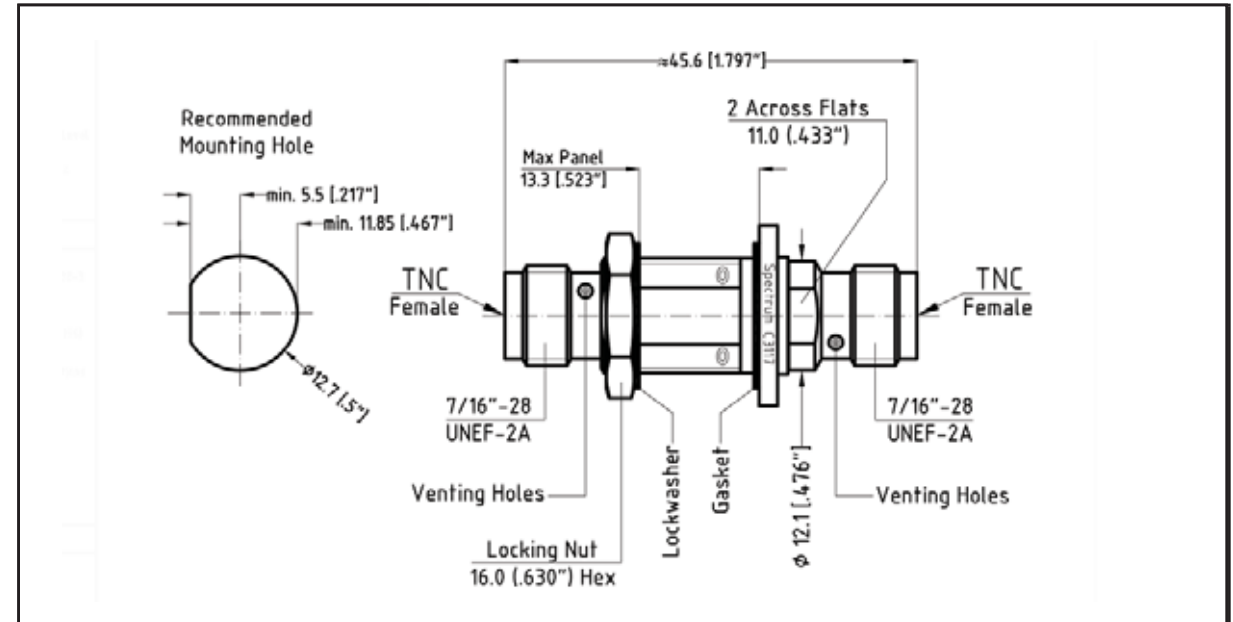
Hermeticity of 10^{-8} atm. cm³/s min.

	8H0V-4141-00	TNC female/TNC female, 4-Hole-Flange with venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H02-4141-00	TNC female/TNC female, 4-Hole-Flange without venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H5V-4141-00	TNC female/TNC female, 4-Hole-Flange with venting holes, VSWR: 1.15:1 typ High Power, DC to 13.8 GHz
	8H52-4141-00	TNC female/TNC female, 4-Hole-Flange without venting holes, VSWR: 1.15:1 typ High Power, DC to 13.8 GHz


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

	8H2V-4141-00	TNC female/TNC female, 4-Hole-Flange with venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H12-4141-00	TNC female/TNC female, 4-Hole-Flange without venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H7V-4141-00	TNC female/TNC female, 4-Hole-Flange with venting holes, VSWR: 1.15:1 typ High Power, DC to 13.8 GHz
	8H71-4141-00	TNC female/TNC female, 4-Hole-Flange without venting holes, VSWR: 1.15:1 typ High Power, DC to 13.8 GHz


Hermetically sealed Adapters TNC



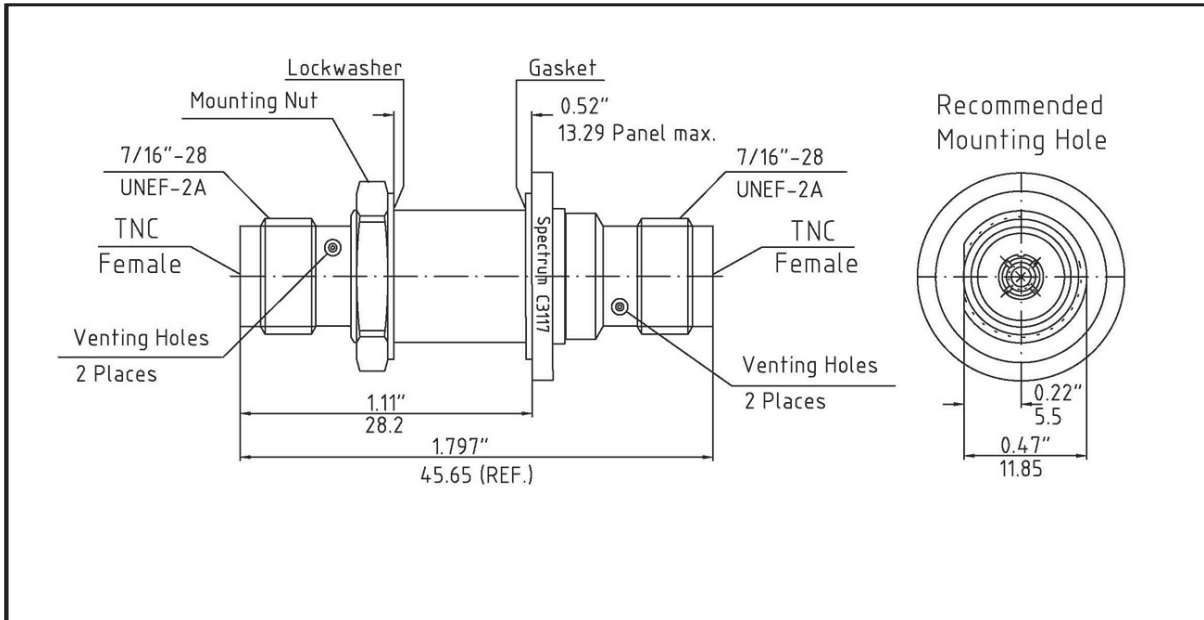
Hermeticity of 10^{-8} atm. cm³/s min.

	8H1V-4141-00	TNC female/TNC female, BFJ with venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H10-4141-00	TNC female/TNC female, BFJ without venting holes, VSWR: 1.15:1 typ High Power, DC to 18.0 GHz

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

	8H4V-4141-00	TNC female/TNC female, BFJ with venting holes DC to 18.0 GHz, VSWR: 1.15:1 typ
	8H13-4141-00	TNC female/TNC female, BFJ without venting holes, VSWR: 1.15:1 typ High Power, DC to 18.0 GHz

Hermetically sealed Adapters TNC



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

	8H6V-4141-00	TNC female/TNC female, BFJ High Power with venting holes DC to 13.8 GHz, VSWR: 1.15:1 typ
	8H6I-4141-00	TNC female/TNC female, BFJ High Power without venting holes DC to 13.8 GHz, VSWR: 1.15:1 typ

	8H8V-4141-00	TNC female/TNC female, BFJ High Power with venting holes DC to 13.8 GHz, VSWR: 1.15:1 typ
	8H8I-4141-00	TNC female/TNC female, BFJ High Power without venting holes DC to 13.8 GHz, VSWR: 1.15:1 typ

More units will be developed as required

VSWR = (1+r)/(1-r)	Reflection Coefficient "r"	Return Loss (dB)	Relative to Unity Reference			
			X dB Below Reference	Ref + x (dB)	Ref - x (dB)	Ref ± x Pk to Pk Ripple (dB)
∞	1.00	0	0	-6.00	∞	∞
17.40	0.891	1	1	-5.53	19.28	24.81
8.72	0.794	2	2	-5.08	13.74	18.81
5.85	0.708	3	3	-4.65	10.69	15.34
4.42	0.631	4	4	-4.25	8.66	12.91
3.57	0.562	5	5	-3.87	7.18	11.05
3.01	0.501	6	6	-3.53	6.22	9.75
2.61	0.477	7	7	-3.21	5.14	8.35
2.32	0.398	8	8	-2.91	4.41	7.32
2.10	0.355	9	9	-2.64	3.81	6.45
1.92	0.316	10	10	-2.39	3.30	5.69
1.78	0.282	11	11	-2.16	2.88	5.03
1.67	0.251	12	12	-1.95	2.51	4.46
1.58	0.224	13	13	-1.76	2.20	3.96
1.50	0.200	14	14	-1.58	1.93	3.51
1.43	0.178	15	15	-1.42	1.70	3.12
1.38	0.159	16	16	-1.28	1.50	2.78
1.33	0.141	17	17	-1.15	1.32	2.47
1.29	0.126	18	18	-1.03	1.17	2.20
1.25	0.112	19	19	-0.92	1.03	1.96
1.22	0.100	20	20	-0.83	0.92	1.74
1.196	0.0891	21	21	-0.741	0.811	1.552
1.172	0.0794	22	22	-0.644	0.719	1.382
1.152	0.0708	23	23	-0.594	0.638	1.232
1.134	0.0631	24	24	-0.531	0.566	1.098
1.119	0.0562	25	25	-0.475	0.502	0.977
1.107	0.0501	26	26	-0.434	0.466	0.880
1.096	0.0447	27	27	-0.380	0.397	0.777
1.083	0.0398	28	28	-0.338	0.353	0.691
1.074	0.0355	29	29	-0.303	0.314	0.556
1.065	0.0316	30	30	-0.270	0.279	0.549
1.058	0.0282	31	31	-0.242	0.248	0.490
1.052	0.0251	32	32	-0.215	0.221	0.436
1.046	0.0224	33	33	-0.192	0.197	0.389
1.041	0.0200	34	34	-0.172	0.174	0.347
1.036	0.0178	35	35	-0.153	0.156	0.309
1.032	0.0159	36	36	-0.137	0.138	0.275
1.029	0.0141	37	37	-0.122	0.123	0.245
1.026	0.0126	38	38	-0.109	0.110	0.219
1.023	0.0112	39	39	-0.098	0.098	0.196
1.020	0.0100	40	40	-0.086	0.087	0.173
1.0112	0.0056	45	45	-0.049	0.049	0.097
1.0064	0.0032	50	50	-0.028	0.028	0.056
1.0036	0.0018	55	55	-0.016	0.016	0.031
1.0020	0.0010	60	60	-0.008	0.0086	0.0172

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**Never heard of Multiports,
connecting coaxial Cable
Assemblies in Seconds?**

Spectrum
Elektrotechnik GmbH

when Quality is needed

80905 Munich, Germany
Telephone: +49-89-3548-040
www.spectrum-et.com

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**Are you still Threading?
Torquing? Untorquing?
Unthreading?**

**Never ever heard of
Push-Ons?
Slide On!
Pull Off!
Done!**

**Push - On Connectors do fit all
standard SMA, N, TNC, 7/16**

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Procedure for how to use the N, TNC and 7/16 Push-On male. Push-On Connectors mate with any standard female connector of the same connector style.

1. Convert your standard Assembly into a Push-On Assembly using the NI to Nm Push-On Adapter	2. Put your fingers firmly onto the knurls of the "Lock Nut"	3. Push "Lock Nut" forward and engage the Push-On end of the Adapter with the mating female. Back nut must be released.
4. The Connection has been completed, easy and fast. The connector has been locked on safely.	5. To unlock (when "Back Nut" is in unlocked mode) push the "Lock Nut" forward and stop reverse movement by setting your fingers onto the "Back Nut".	6. Keep fingers on "Back Nut" to ensure that "Lock Nut" cannot slide back and pull the connector off.
1. Convert your standard cable assembly into a Push-On Assembly by threading the standard female side of the adapter onto the male connector of the assembly.	2. Your standard SMA male cable assembly is converted into an SMA male Push-On Assembly.	3. Just slide the Push-On SMA male Connector onto any standard SMA female. The connection is securely completed in seconds.
	Procedure for how to use the SMA male and female Push-On connectors. SMA Push-On Connectors mate with any standard connector of the same but opposite connector style.	
4. To disconnect, just pull the connector off.		
	1. Convert your standard cable assembly into a Push-On Assembly by threading the standard female side of the adapter onto the male connector of the assembly.	
2. Your standard SMA male cable assembly is converted to a Push-On SMA female Cable Assembly.	3. Just slide the Push-On SMA female Connector onto any standard SMA male. The connection is securely connected in seconds.	4. To disconnect, just pull the connector off.

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Phase Adjusters



360° @ 1 GHz

330° @ 1 GHz
230° @ 12 GHz
350° @ 18 GHz
500° @ 26 GHz
590° @ 40 GHz
400° @ 50 GHz
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Ordering

Please include both, Spectrum Elektrotechnik GmbH part number, and a description of the item(s) ordered. If special features are required, describe them as completely as possible and include an engineering sketch. Orders may be placed directly with the factory in Munich or with any authorized Spectrum Elektrotechnik GmbH Representative. Minimum Factory Order is 150 Euro.

Acceptance of Orders

All orders are subject to acceptance at the discretion of the factory and with an Order Acknowledgment from Spectrum Elektrotechnik GmbH.

Terms

Upon approval of credit, payment is due Net 30 days from date of invoice. Late payments are subject to a 1.5 % monthly charge on past due balances.

Shipments

Spectrum Elektrotechnik GmbH ships via the most expedient reliable carrier. Shipment F.C.A. or F.O.B., Spectrum Elektrotechnik GmbH plant, will be sent freight prepaid and billed unless other prior arrangements are made. Spectrum Elektrotechnik GmbH will use any acceptable method of delivery specifically requested by customer.

Damaged Materials/Shortages

All orders should be inspected upon receipt for both completeness and to insure receipt of materials in proper condition. All claims for shortages must be made within thirty (30) days after date of shipment of material from Spectrum Elektrotechnik GmbH plant. Title to goods passes to the Buyer upon delivery to the carrier and risk of loss or damage shall thereafter rest with the Buyer. Claims for damage or loss while material is in transit must be made against the carrier by the Buyer.

Warranty

Spectrum Elektrotechnik GmbH warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery of the original owner and after prepaid return by the original owner, any Spectrum Elektrotechnik GmbH product is found to be defective, Spectrum Elektrotechnik GmbH shall, at its option, repair or replace said defective item. This warranty does not apply to products which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings.

Cancellation

Cancellation of, or changes to an order acknowledged by Spectrum Elektrotechnik GmbH are accepted only upon terms that protect Spectrum Elektrotechnik GmbH against loss.

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Excess or unused material cannot be returned for credit without factory authorization. Such material is subject to a handling charge of not less than 15 % upon return and inspection of material at the factory. In no case will Spectrum Elektrotechnik GmbH authorize return of material beyond ninety (90) days after shipment from the factory. Credit for returned material is issued by Spectrum Elektrotechnik GmbH only to the original purchaser. Freight charges for returned material is the responsibility of the Buyer.

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Claims for defective material or workmanship are subject to verification by Spectrum Elektrotechnik GmbH Quality Control, and must have prior factory authorization. Upon verification, Spectrum Elektrotechnik GmbH reserves the right to repair or replace, as deemed necessary.

Prices / Specifications

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Buyer agrees at Buyer's expense to protect and defend Seller against any and all claims of patent or trademark infringement arising from Seller's compliance with Buyer's designs or specifications or instruction and to hold Seller harmless from all losses, damages, costs and expenses attributable to any such claim or claims. Seller shall have the right to approve or disapprove counsel designated by Buyer to defend such claims.

Spectrum Elektrotechnik GmbH reserves the right to make design changes without notice on any of its products and without any obligation to make same or similar changes to items previously purchased. In no event does Spectrum Elektrotechnik GmbH assume liability for installation labor or for consequential damages. This warranty is the extent of the obligation or liability assumed by Spectrum Elektrotechnik GmbH with respect to its products, and no other warranty or guarantee is either expressed or implied.

Spectrum Elektrotechnik GmbH is a leading manufacturer of RF and Microwave Components in the Frequency Range of DC to 71.0 GHz. The products are published in seven individual catalogs and one Product Portfolio, showing detailed information and comprehensive data.



Adapters,
DC - 71 GHz, 50 Ohms
Coaxial Adapters (In Series and Between Series)
Hermetically Sealed Adapters
High Power Adapters
Push-On Adapters
Waveguide to Coax Adapters



Multiports
DC to 65 GHz
Circular Connectors,
SQ-, TQ-, IQ-, BQ-, CQ-Series
Rectangular Connectors,
RQ-Series



Cable Assemblies,
DC - 50 GHz, 50 Ohms
ANA Test Cables
Flexible Cable Assemblies
Low Loss Cable Assemblies
Phase Stable Cable Assemblies
Semi Rigid Cable Assemblies
(Dia. 0.34" to 1")



Quick Connections,
DC to 65 GHz, 50 Ohms
Blind Mate Connectors
Multi Coax Connections,
SQ-, TQ-, IQ-, BQ-, CQ-, and
RQ-Series,
Push - On Adapters, Connectors,
and Push-On Cable Assemblies



Circulators and Isolators
Connectorized Isolators and
Circulators
Drop In Isolators and Circulators
Lumped Design Isolators



Test Necessities and Accessories,
DC - 71 GHz, 50 Ohms
LRL, TRL Calibration and
Verification Kits
ANA Cable Assemblies
Torque Wrenches
Interface Gauges
Calibration Kits
Terminations

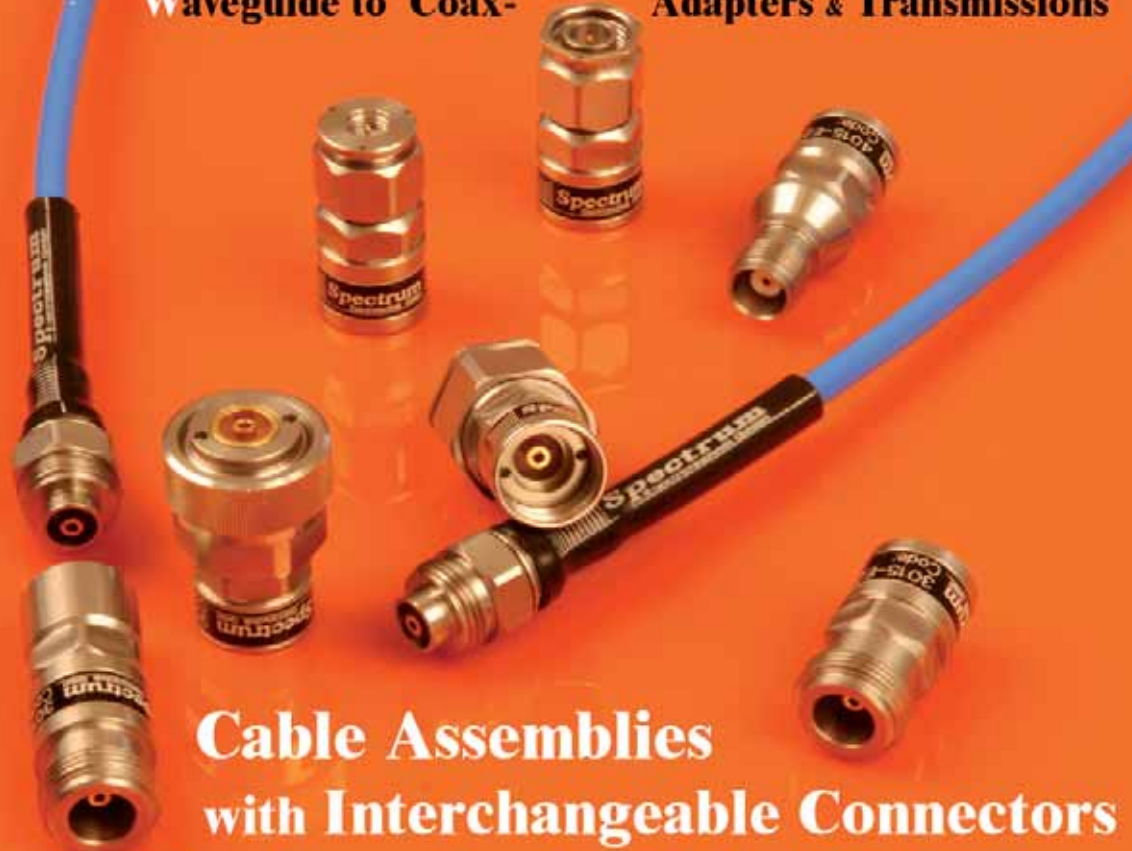


Connectors,
DC - 50 GHz, 50 Ohms
Blind Mate Connectors
Coaxial Connectors
High Power Connectors
Multi Pin Connectors
Push-On Connectors



Product Portfolio
Coaxial Connectors and Adapters
Multiport Assemblies
Coaxial Delay Lines
Waveguide to Coax-Adapters
Phase Adjusters
Gain Amplitude Equalizers
Cable Assemblies etc.

**Adapters, Attenuators, Blind Mate Connectors
Cable Assemblies, Connectors, Delay Lines
Duplexers, Equalizers, Fine Grain Equalizers
Gain Ampl. Equalizers, Line Stretchers, Machines
Phase Adjusters, Push - On Connectors & Adapters
Quick Connections, Terminations (Coax-), Tools
Waveguide to Coax- Adapters & Transmissions**



**Cable Assemblies
with Interchangeable Connectors
same electrical lengths, N, SMA, TNC, 7mm**



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