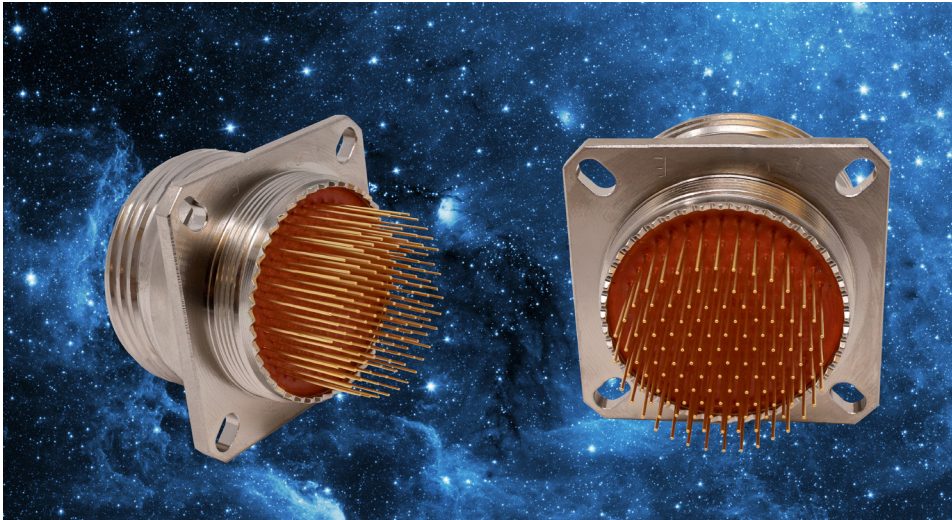


Air **TIGHT**

Light Weight Hermetic



35%
Weight Savings

Across all shell size compared to standard GTM hermetics

Operating Temperatures

-65°C - 200°C

Leak Rate
 $1 \times 10^{-7} \text{cc hel/sec}$

Introducing Amphenol's **Airtight** Light Weight Hermetic connectors, there is no longer any need to sacrifice on weight in order to provide high levels of sealing and operating temperatures. Utilizing high performance materials, these connectors will meet a leak rate of $1 \times 10^{-7} \text{cc helium per second}$ and maintain an operating temperature of -65°C to 200°C.

This revolutionary design introduces the ability to use aluminum shells resulting in a weight savings of 35% across any shell size. No more concerns about introducing traditional, heavy, stainless steel hermetics and sacrificing your application's performance.

Currently offered in any standard MIL-DTL-38999 configuration with the option to implement in other connector series where appropriate. Contact your local Amphenol representative for more information.

FEATURES AND BENEFITS:

- **35%** weight savings across all shell sizes
- Full hermetic sealing, $1 \times 10^{-7} \text{ cc helium/sec}$
- Operating temperature of -65°C to 200°C
- Utilizes highly conductive gold plated copper contacts

TESTING & QUALIFICATION*:

- Exposing to 100 cycles of thermal shock between -65°C and 200°C
- 1000 hours of thermal aging at 200°C
- Hermetic Seal at 30PSI
- Extended Hi-Pot electric test

*Additional qualification to be completed. Reach out to Amphenol for more details.


Weight Reduction of Compared to Standard Hermetic Connector	
Connector Size	Weight Reduction (%)
25	35.3
23	35.3
21	35.6
19	35.7
17	35.5
15	35.8
13	35.8
11	35.8
9	35.4

HOW TO ORDER: AIRTIGHT 38999

1. Connector Type	2. Shell Style	3. Service Class	4. Shell Size & Insert Arrangement	5. Contact Type	6. Alternate Positions
ATTV	00	DR	25-35	P	N

1. Connector Type	
ATTV	Airtight D38999

2. Shell Style	
00	Wall Mount Receptacle
01	In-Line Receptacle
07	Jam Nut Receptacle with Accessory Threads
10	Wall Mount Receptacle with Clinch Nuts
12	Box Mount Receptacle with Clinch Nuts
17	Jam Nut Receptacle with Standoff

3. Service Class	
DR	Electroless Nickel 

4. Shell Size & Insert Arrangement	
See Circular 38999 Catalog or reference MIL-STD-38999 for available insert arrangements	

5. Contact Type	
P	Pin
S	Socket

6. Alternate Positions	
N	Normal Rotation
A	A rotation
B	B rotation
C	C rotation
D	D rotation
E	E rotation

6. Alternate Keying						
Shell Size	Key & Keyway Arrangement Identification Letter	AR or AP BSC	BR or BP BSC	CR or CP BSC	DR or DP BSC	
9	N*	105	140	215	265	
	A	102	132	248	320	
	B	80	118	230	312	
	C	35	140	205	275	
	D	64	155	234	304	
11, 13, and 15	E	91	131	197	240	
	N*	95	141	208	236	
	A	113	156	182	292	
	B	90	145	195	252	
	C	53	156	220	255	
17 and 19	D	119	146	176	298	
	E	51	141	184	242	
	N*	80	142	196	293	
	A	135	170	200	310	
	B	49	169	200	244	
21, 23, and 25	C	66	140	200	257	
	D	62	145	180	280	
	E	79	153	197	272	
	N*	80	142	196	293	
	A	135	170	200	310	
25L, 33 and 37	B	49	169	200	244	
	C	66	140	200	257	
	D	62	145	180	280	
	E	79	153	197	272	
	N*	80	142	188	293	
	A	135	170	188	310	
	B	49	169	188	244	
	C	66	140	188	257	
	D	62	145	188	280	
	E	79	153	188	272	