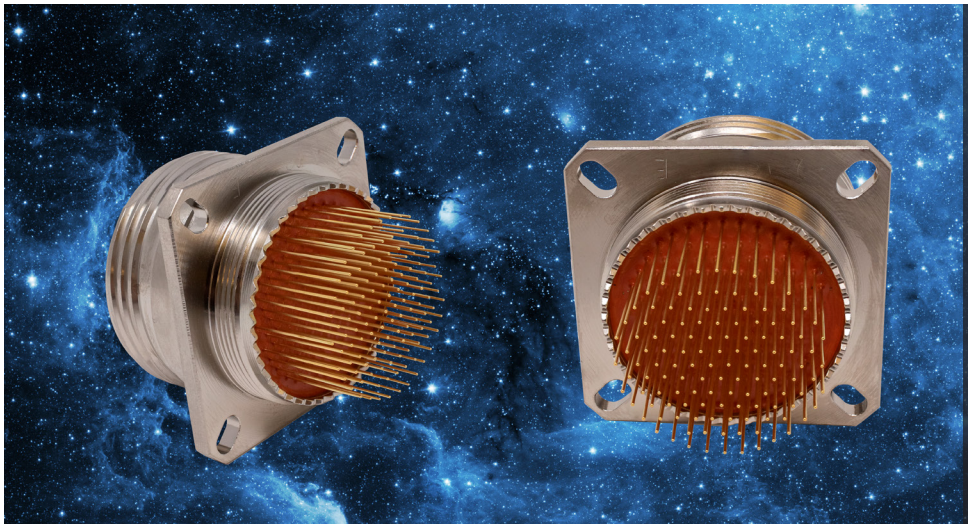
Air TIGHT

Light Weight Hermetic

Amphenol Aerospace

PDS - 353



Introducing Amphenol's **Air-Tight** 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 $1x10^{-7}$cc helium per second and maintain an operating temperature of -85 °F (-65 °C) to 392 °F (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, $1x10^{-7}$ cc helium/sec
- Operating temperature of -85 °F (-65 °C) to 392 °F (200 °C)
- Utilizes highly conductive gold plated copper contacts

TESTING & QUALIFICATION*:

- Exposed to 100 cycles of thermal shock between -85 °F (-65 °C) to 392 °F (200 °C)
- 1000 hours of thermal aging at 392 °F (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

Peter Kapogiannatos • +1 (607) 563-5119 • Email: pkapogiann@amphenol-aao.com
amphenol-aerospace.com • amphenolmao.com

HOW TO ORDER: AIRTIGHT 38999

Amphenol Aerospace

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
	E	91	131	197	240
11, 13, and 15	N*	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
	D	119	146	176	298
	E	51	141	184	242
17 and 19	N*	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
21, 23, and 25	N*	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
25L, 33 and 37	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

Peter Kapogiannatos • +1 (607) 563-5119 • Email: pkapogiann@amphenol-aao.com
amphenol-aerospace.com • amphenolmao.com