

SEAL3D™

Sealed 38999 III Interconnect Solution

INTRODUCTION









Our SEAL3D™ adapter connectors are bulkhead-mount interconnect devices that:

Can be designed for most MIL-STD-1560 contact patterns

Are configurable to socket/pin, pin/socket, or pin/pin mating faces

Feature lighter aluminum shells that are fully sealed to 10⁻⁵ cc/sec helium leak rate (10⁻⁶ cc/sec air)

Provide fully sealed performance from -55 °C to 150 °C

Meet all applicable requirements of MIL-DTL-38999

Are up to 50% lighter than stainless steel sealed feed-thru connectors

FEATURE	BENEFIT
Fully sealed to 10 ⁻⁵ cc/sec helium leak rate (10 ⁻⁶ cc/sec air)	Meet the requirements of most avionics and bulkhead applications
Bulkhead adapter	Configure to either wall mount or jam nut shells
Interfaces for M38999	All socket and pin contacts meet mating and performance of M39029
Size 9-25 shells	Select from most MIL-STD-1560 contact patterns for standard or high-density contacts
Double-end triple-start threads	Meets all interface and vibration performance requirements of MIL-DTL-38999

SUGGESTED APPLICATIONS

- » Aerospace & military
 - Avionics
 - In-flight entertainment & connectivity
 - Feed thru in aircraft pressure bulkhead or fuselage
 - Environmentally controlled systems
- » Any weight reduction feed-thru application

PART NUMBER	DESCRIPTION
EXAMPLE	SEE CONFIGURATOR (Back Page)
CS93AAEF08SN	Jam Nut Adapter 17-8 Skt/Pin
CS93AAFF35SN	Jam Nut Adapter 17-35 Skt/Pin

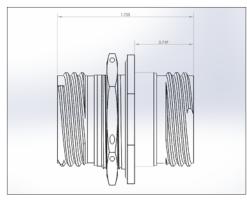
^{*}In-line and jam nut designs available

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SPECIFICATIONS & PERFORMANCE

Test Scope	Per Specification			
Environmental				
Operating Temperature Range	-65 °C to 175 °C			
Temp Cycling	EIA-364-32, 250 Cycles			
Leak Rate	Helium 10 ⁻⁵ cc/sec (10 ⁻⁶ cc/sec air)			
Fluid Immersion	EIA-364-10			
Humidity	EIA-364-31, Method IV, 100 ΜΩ			
Corrosion Resistance	EIA-364-26, Condition B 48 Hours			
Vibration - Random	EIA-364-28, Condition VI, 3 Axes			
Shock	Half Sine, 300 G, 3 msec			
Durability	500 Matings at Max 300/Hour			
Electrical				
Insulation Resistance	5000 MΩ at 250 V			
Dielectric Withstand Volt	EIA-364-20, 2 mA at Voltage (table)			

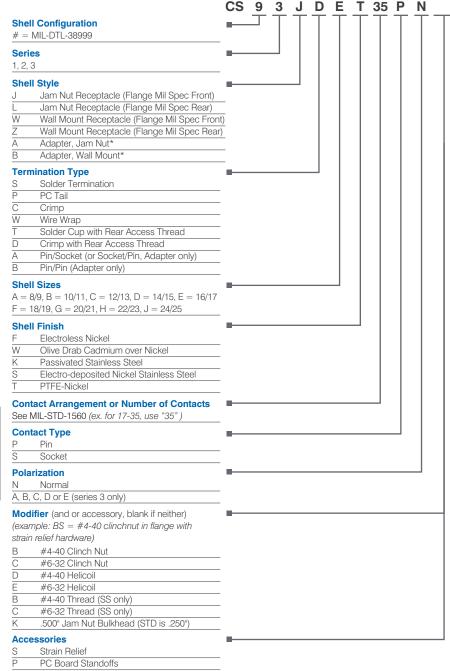
Contact Density	STD #20	High #22 (-35)
@ Sea Level	1800	1300
@ 70K ft	400	350



AmphenolCII Cable & Interconnect Technologies

ORDERING INFORMATION

Standard Part Number Guide for SEAL3D™



*Note: All adapters are double receptacle, pin/skt, skt/pin, or pin/pin. Due to pattern symmetry, not all MIL 1560 patterns are available. Contact-type pin or socket denotes the front side of adapter connectors. For all other adapter requirements, contact us for PN assistance.

Learn More: **Amphenol-CIT.com**

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