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Amphenol Sine Systems, USA Amphenol Tuchel Industrial, GmbH

## www.amphenol-sine.com









# Heavy-Duty, Multi-Pin, 13A, Thermoplastic Connectors

#### Available in 2, 3, 4, 6, 8, 12, 13 (Mixed), 15 (Mixed) and 18 position

Amphenol Sine Systems' AT Series<sup>TM</sup> connectors are a high-performance, IP68/69K rated (mated), thermoplastic, cost-effective solution with superior environmental seals and seal retention capabilities. The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. All of our AT Series™ connectors offer a wide range of end caps and strain relief options and have been developed to be compatible with all other existing standard products industry-wide. Available in BoardLock™, HYPERBUSS™, LED, PanelMate™ and StructurePlus™ options.









#### **Key Features**

- Thermoplastic housing with excellent UV resistence Wedgelocks ensure proper contact alignment & retention
  - Integrated latch for mating ensures a secure connection Superior front and rear environmental seals and seal retention
- Compatible with existing standard products industry-wide Wide range of end caps and strain relief options

Panel Mate<sup>™</sup>

Applications: Heavy Duty, Transportation, Marine, Diagnostic, Alternative Energy, Agricultural and other demanding interconnect architectures.

#### Specifications Overview (Reference Individual Datasheets)

Operating Temperature	-55°C to +125°C		Insulation Resistance	1000 megohms minimum at 25°C		
Max Current Rating (Amp)	2, 3, 4, 6, 8, 12 pos: 13A (Size 16) 13,15 pos: Mixed 25A (Size 12), 13A (Size 16) 18 pos: 13A (Size 16)		Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)		
Mating Cycles	>100			Continued continuity without degradation to mechanical		
IP Rating	IP68/69K (in mated condition)		Vibration	or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)		
Wire Range	2, 3, 4, 6, 8, 12 pos: 14-20AWG (Size 16) 13,15 pos: Mixed 10-14AWG (Size 12), 14-20AWG (Size 16) 18 pos: 14-20AWG (Size 16)		Connector Terminal Retention	When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.		
Contacts	Machined and Stamped & Formed Copper-Alloy, Nickel-Plated, Gold-Plating optional		Connector Retention	A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds		
Housing/Latch Material	Thermoplastic/Integrated latch for mating	-		, 0		
Sealing Material	Silicone Rubber		Thermal Shock	Subjected to 10 cycles at -55°C to +125°C with no crack- ing, chipping or other damage detrimental to the normal operation of the connector		
Dielectric Withstanding Voltage	Less than 2 mA current leakage @ 1500V AC					

#### **Custom Color Options**

Black	Grey	Brown	Blue	White	Yellow	Green	Red	Orange





Standard products. Custom solutions Customer Service +1 800 394 7732



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Related Items-Product Lines



### For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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