

Amphenol

SINESYSTEMS



AT Series™

Connectors

and

AHD Series™

Connectors



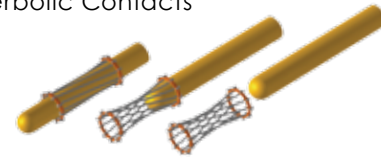
INTERCONNECTING YOUR WORLD

What Are AT Series™ Connectors?

Amphenol Sine Systems AT Series™ connectors were designed as a high-performance, cost-effective solution to be used within the Heavy Equipment, Agricultural, Automotive, Military, Alternative Energy and other demanding interconnect architectures. The AT Series™ connectors contain superior environmental seals, seal retention capabilities and feature Amphenol Sine Systems RockSolid™ Contact technology. In addition, all of our AT Series™ connectors have been developed to be completely compatible with all other existing standard products industry-wide.

RockSolid™
Connections

Hyperbolic Contacts



- Longer contact life
- Lower contact resistance
- Immunity to shock and vibration
- Low insertion and extraction forces
- Contact area extends 360° around pins



SEALING PLUGS
- Optional



END CAP
- Optional



HYPERBOLIC CONTACTS
- Optional

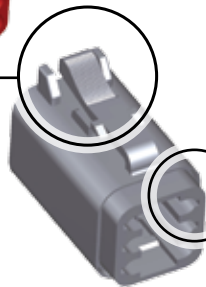


STANDARD REAR SEAL

- Also available in **Reduced Diameter** or **Solid**



ERGONOMICALLY DESIGNED CLIP
The increased size and tactile design of our clips allow for easier mating and unmating.



RECESSED SEALING AREA
The recessed cavity allows for a secure fitting front seal.



FRONT SEAL

The *superior* design ensures a tight environmental seal when used in conjunction with the recessed cavity of the connector body.



WEDGE (Required) with Added Seal Retention
The added seal retention feature ensures that the Front Seal does not move out of place.

What are AHD Series™ Connectors?

Amphenol Sine Systems AHD Series™ Connectors were developed in response to the overwhelming need for an economic alternative to today's existing diagnostic product options. Designed specifically as a cost-conscious, reliable alternative, intermateable to industry standard 6 and 9 pin connectors, the AHD Series™ is ideal for any situation where either controlled and/or uncontrolled environmental conditions exist.

Amphenol Sine Systems AHD Series™ Connectors offer both a smooth, non-sealing option for controlled applications, as well as an environmentally-sealed, threaded option for more demanding applications. The same applies for our DiagnosticGrade™ Cable Assemblies in that we provide both options for our customers.

Features and Advantages

INTEGRATED ALIGNMENT KEYS	Tactile verification for blind mating
STRONG THERMOPLASTIC HOUSING	Extended service life
OPERATING TEMPERATURE RANGE	-55°C TO +125°C - Wide range compatibility
ECONOMICALLY SOUND	Low overall cost
RoHS COMPLIANT	Environmentally friendly
UL Approval	Certified and compliant

Performance Criteria

CONTACT CURRENT RATING	DiagnosticGrade™ / Military Style: At +125°C, continuous, less thru wire: #12 contact = 25 amps max. current; #16 contact = 13 amps max. current
PHYSICAL SHOCK	Military Style: No locking, unmating or other unsatisfactory result after 50 g's in each of three mutually perpendicular planes.
DIELECTRICAL STRENGTH	DiagnosticGrade™ / Military Style: 1500 volts minimum
VIBRATION	Military Style: Maintains continuity and exhibits no mechanical or physical damage after vibration. (20 g's at 10-2000 Hz)
TEMPERATURE	DiagnosticGrade™ / Military Style: Operating temperature range: -55°C TO +125°C at rated current.
INSULATION RESISTANCE	DiagnosticGrade™ / Military Style: 1000 megohms minimum at 25°C.
DURABILITY	DiagnosticGrade™ / Military Style: No electric or mechanical defects after 100 cycles of engagement and disengagement.
CORROSION RESISTANCE	DiagnosticGrade™ / Military Style: Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL-STD 1344 method 1001.

Product Material

HOUSINGS	Thermoplastic
SEALS	Silicone Elastomer
CONTACTS	Copper Alloy/Gold plated





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