



# AHD Series™

## Circular Thermoplastic Connectors for Diagnostic Applications



**Available in 6 Position:** 10-14AWG, 25A, Size 12; **9 Position:** 14-20AWG, 13A, Size 16

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.

### AHD Series™ - Features And Benefits

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
Contact Current Rating	At +125°C, continuous, less thru wire: #12 contact = 25A max. current; #16 contact = 13A max. current
Physical Shock	No locking, unmating or other unsatisfactory result after 50 g's in each of 3 mutually perpendicular planes.
Dielectrical Strength	1500 volts minimum
Vibration	Maintains continuity and exhibits no mechanical or physical damage after vibration. (20 g's at 10-2000 Hz)
Operating Temperature Range	-55°C TO +125°C at rated current
Insulation Resistance	1000 megohms minimum at 25°C.
Durability	No electric or mechanical defects after 100 cycles of engagement and disengagement.
Corrosion Resistance	No evidence of corrosion after exposure to 48 hrs of salt spray per MIL-STD 1344 method 1001
Housings	Thermoplastic
Seals	Silicone Elastomer
Contacts	Copper Alloy/Gold plated



**A Series™ Family**



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

**AHD Series™ - Part Offering and Compatibility**

Amphenol Sine Systems P/N	Position	Part Description	Deutsch P/N
AHD10-6-12P	6	Receptacle	HD10-6-12P
AHD16-6-12S	6	Plug, Smooth Shell Diagnostic Grade	HD16-6-12S
AHD16-6-12SB010	6	Plug, Locking Ring	HD16-6-12SB010
AHDC-16-6	6	Receptacle, Cap, Grey	HDC16-6
AHD10-9-1939P	9	Receptacle, Flange	HD10-9-1939P
AHD14-9-1939P	9	Receptacle, In-Line Threaded Rear J1939	HD14-9-1939P
AHDC-16-9	9	Receptacle, Cap	HDC16-9
AHD16-9-1939S	9	Plug, Locking Ring	HD16-9-1939S
AHD16-9-96S	9	Plug, Locking Ring (non-J1939)	HD16-9-96S
AHD17-9-1939S	9	Plug, Smooth Shell	HD17-9-1939S
AHDC-16-9	9	Receptacle, Cap, Grey	HDC16-9
AHDC-16-9-BLK	9	Receptacle, Cap, Black	-
AHDC-16-9-OBDBK	9	Receptacle, Cap, Black, OBD Label	-
AHDC169-T-OBDBK	9	Receptacle, Cap w/ Tether, Black, OBD Label	-
AHDC169-T-BLK	9	Receptacle, Cap w/ Tether, Black	-
AHDC169-T	9	Receptacle, Cap w/ Tether, Grey	-
AHDC169-TMOBDBK	9	Receptacle, Cap w/ Wire Tether, Black, OBD Label	-
AHDC169-TMBLK	9	Receptacle, Cap w/ Wire Tether, Black	-
AHDC169-TM	9	Receptacle, Cap w/ Wire Tether, Grey	-
AHD10-9-96P	9	Receptacle (Non J-1939) <b>SPECIAL ORDER</b>	HD10-9-96P
AHD14-9-96P	9	Receptacle, In Line Threaded Rear <b>SPECIAL ORDER</b>	HD14-9-96P

**AHD Series™ - Contact Options**

Amphenol Sine Systems P/N	Position	Part Description	
AT60-204-12141	6	Male Pin, Size12, Solid, 12-14AWG, Nickel Plated	
AT62-203-12141		Female Socket, Size12, Solid, 12-14AWG, Nickel Plated	
AT60-220-1231		Male Pin, Size12, Solid, 12-14AWG, Gold Plated	
AT62-210-1231		Female Socket, Size12, Solid, 12-14AWG, Gold Plated	
AT60-12-0166		Male Pin, Size12, Stamped & Formed, 12-14AWG, Nickel Plated	
AT62-12-0166		Female Socket, Size12, Stamped & Formed, 12-14AWG, Nickel Plated	
AT60-12-0144		Male Pin, Size12, Stamped & Formed, 12-14AWG, Gold Plated	
AT62-12-0144		Female Socket, Size12, Stamped & Formed, 12-14AWG, Gold Plated	
AT60-14-0122		9	Male Contact, Size 16, Stamped & Formed, 14-16AWG, Nickel Plated
AT60-14-0144			Male Contact, Size 16, Stamped & Formed, 14-16AWG, Gold Plated
AT60-202-1631	Male Pin, Size 16, Machined, 16-20AWG, Gold Plated		
AT60-202-16141	Male Pin, Size 16, Machined, 16-20AWG, Nickel Plated		
AT62-16-0122	Female Contact, Size 16, Stamped & Formed, 16-18AWG, Nickel Plated		
AT62-16-0144	Female Contact, Size 16, Stamped & Formed, 16-18AWG, Gold Plated		

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)