

AHD Series™

Overview

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.

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™ connectors are completely compatible with all other existing standard products industry-wide.



Features & Benefits

Current Capacity	6 position: Size 12, 25A (max) 9 position: Size 16, 13A (max)
Wire Range	Size 12 contacts will accept wire ranges of 10 thru 14AWG Size 16 contacts will accept wire ranges of 14 thru 20AWG
Temperature	DiagnosticGrade™ / Military Style: Operating temperature range: -55°C TO +125°C at rated current.
Dielectrical Strength	DiagnosticGrade™ / Military Style: 1500 volts minimum
Physical Shock	Military Style: No locking, unmating or other unsatisfactory result after 50 g's in each of three mutually perpendicular planes.
Vibration	Military Style: Maintains continuity and exhibits no mechanical or physical damage after vibration. (20 g's at 10-2000 Hz)
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.

AHD Series™

Features & Benefits, cont.


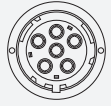








Integrated Alignment Keys	Tactile verification for blind mating
Strong Thermoplastic Housing	Extended service life
Operating Temperature Range	-55°C TO +125°C - Wide range compatibility
Economically Sound	Low overall cost
Rohs Compliant	Environmentally friendly
UL Approval	Certified and compliant
Contact Current Rating	DiagnosticGrade™ / Military Style: At +125°C, continuous, less thru wire: #12 contact = 25A max. current; #16 contact = 13A max. current
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


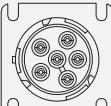

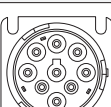

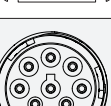

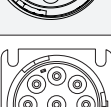

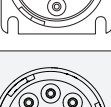
Housings	Thermoplastic
Seals	Silicone Elastomer
Contacts	Copper alloy/Gold plated

AHD Series™ Standard Products

Plugs - 6 and 9 positions





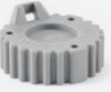





Plug	Face View	Part Number	Description
		AHD16-6-12S	6 Position, Plug, Smooth Shell Diagnostic Grade *Size 12 pin contacts only
		AHD16-6-12SB010	6 Position, Plug, Locking Ring *Size 12 pin contacts only
		AHD16-9-1939S	9 Position, Plug, Locking Ring *Size 16 pin contacts only
		AHD17-9-1939S	9 Position, Plug, Smooth Shell *Size 16 pin contacts only.
		AHD16-9-96S	9 Position, Plug, Locking Ring (non-J1939) SPECIAL ORDER *Size 16 pin contacts only.

Receptacles - 6 and 9 positions

Receptacle	Face View	Part Number	Description
		AHD10-6-12P-L	6 Position, Receptacle *Size 12 socket contacts only
		AHD10-9-1939P	9 Position, Receptacle, Flange *Size 12 socket contacts only
		AHD14-9-1939P	9 Position, Receptacle, In-Line Threaded Rear J1939 *Size 16 socket contacts only
		AHD10-9-96P	9 Position, Receptacle (Non J-1939) SPECIAL ORDER *Size 16 socket contacts only
		AHD14-9-96P	9 Position, Receptacle, In Line Threaded Rear SPECIAL ORDER *Size 16 socket contacts only

AHD Series™ Standard Products

Receptacle Caps - 6 and 9 positions

Cap	Part Number	Description
	AHDC-16-6	6 Position, Receptacle, Cap, Grey
OBD 	AHDC-16-9-OBDBK	9 Position, Receptacle, Cap, Black, OBD Label
OBD 	AHDC169-T-OBDBK	9 Position, Receptacle, Cap w/ Tether, Black, OBD Label
OBD 	AHDC169-TMOBDBK	9 Position, Receptacle, Cap w/ Wire Tether, Black, OBD Label
	AHDC-16-9	9 Position, Receptacle, Cap, Grey
	AHDC-16-9-BLK	9 Position, Receptacle, Cap, Black
	AHDC169-T-BLK	9 Position, Receptacle, Cap w/ Tether, Grey
	AHDC169-T	9 Position, Receptacle, Cap w/ Tether, Black
	AHDC169-TMBLK	9 Position, Receptacle, Cap w/ Wire Tether, Black
	AHDC169-TM	9 Position, Receptacle, Cap w/ Wire Tether, Grey