



ATHD ATHD Series™



Heavy Duty, Thermoplastic, Power Connectors

Available in Single Position

Our **ATHD Series™** Heavy Duty Power Connectors provide an environmentally-sealed connection system and solution to field splices and terminals in harsh environments. Safety features include an integral latch to prevent inadvertent disconnect and an audible/tactile "click" provides circuit confirmation. Precision machined contact technology maximizes performance and durability while delivering up to 100A of power.

Available in **In-Line (Wire-to-Wire)**, **BoardLock™**, **PanelMate™** and **StructurePlus™** options. Also available as cable assemblies in a variety of standard lengths.



Applications: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural

Key Features

- Intermatable with industry standard connectors
- Circular, Thermoplastic Housing
- Integral Latch Prevents Inadvertent Disconnect
- In-line (Wire-to-Wire), BoardLock™ or PanelMate™ Options
- Customized project-specific colors



ATHD Series™ - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68 and IP69K (See datasheets)
Max. Current (Amperage)	Up to 100A
Max. Voltage Rating	Up to 1000V
Operating Temperature	-40°C to +125°C
Coupling System	Integrated Latch
Housing Body	Thermoplastic UL94-VO
Contact Types	Stamped & Formed, Machined, Solder
Contact Material	Copper Alloy
Wire Range	4-14AWG (See datasheets)
Sealing Material	Silicone Rubber
Min. Mating Cycles	>100
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
Insulation Resistance	1000 megohms min. of 25°C
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)

Available Modifications

- **-BMXX** - BoardLock™ ATHD/ATFHD Receptacle
- **-L009** - PanelMate™ ATHD Receptacle for inside mounting
- **-L013** - PanelMate™ ATHD Receptacle for outside mounting
- **-OM** - StructurePlus™ ATHD Overmold Capable
- **-E003** - Endcap



-BMXX



-L009



-L013



-OM



-E003

IP Ratings

IP67 rated (Dust tight; 1M of Water for 30 Minutes, in mated condition)

IP68 rated (Dust tight; 1M of Water for 24 Hours, in mated condition)







IP69K rated (Dust tight; High-Pressure Waterproof, 4 Points (0°, 30°, 60°, 90°), in mated condition)



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




ATHD Series™ - Plugs

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.

Image	Part Number	Description	Contact Size	Amp
	ATHD06-1-4S	Single Position, Plug, Pin, ATHD™ Series, Black Body	4	100A
	ATHD06-1-4S-E003	Single Position, Plug, Socket, ATHD™ Series, Endcap, Black Body	4	100A
	ATHD06-1-8S	Single Position, Plug, Socket, ATHD™ Series, Black Body	8	60A
	ATHD06-1-8S-E003	Single Position, Plug, Socket, ATHD™ Series, Endcap, Black Body	8	60A
	ATHD06-1-12S	Single Position, Plug, Socket, ATHD™ Series, Black Body	12	25A
	ATHD06-1-12S-E003	Single Position, Plug, Socket, ATHD™ Series, Endcap, Black Body	12	25A

StructurePlus™ ATHD - Plugs

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.

	ATHD06-1-4S-OM	Single Position, Plug, Socket, StructurePlus™ ATHD Series, Black body	4	100A
	ATHD06-1-8S-OM	Single Position, Plug, Socket, StructurePlus™ ATHD Series, Black Body	8	60A
	ATHD06-1-12S-OM	Single Position, Plug, Socket, StructurePlus™ ATHD Series, Black	12	25A

ATHD Series™ - Receptacles

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.







	ATHD04-1-4P	Single Position, Receptacle, Pin, ATHD™ Series, Black Body	4	100A
	ATHD04-1-4P-E003	Single Position, Receptacle, Pin, ATHD™ Series, Endcap, Black Body	4	100A
	ATHD04-1-8P	Single Position, Receptacle, Pin, ATHD™ Series, Black Body	8	60A
	ATHD04-1-8P-E003	Single Position, Receptacle, Pin, ATHD™ Series, Endcap, Black Body	8	60A

Image	Part Number	Description	Contact Size	Amp
	ATHD04-1-12P	Single Position, Receptacle, Pin, ATHD™ Series, Black Body	12	25A
	ATHD04-1-12P-E003	Single Position, Receptacle, Pin, ATHD™ Series, Endcap, Black Body	12	25A

BoardLock™ ATHD Series - Receptacles

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.

	ATHD04-1-4P-BM11	Single Position, Receptacle, Pin, Size 4, Gold-Plated, BoardLock™ ATHD Series, Keyed A, Self-Threading, No Potting, Black Body	4	100A
	ATHD04-1-4P-BM12	Single Position, Receptacle, Pin, Size 4, Gold-Plated, BoardLock™ ATHD Series, Keyed A, Self-Threading, Potting, Black Body	4	100A
	ATHD04-1-4P-BM13	Single Position, Receptacle, Pin, Size 4, Nickel-Plated, BoardLock™ ATHD Series, Keyed A, Self-Threading, No Potting, Black Body	4	100A
	ATHD04-1-4P-BM14	Single Position, Receptacle, Pin, Size 4, Nickel-Plated, BoardLock™ ATHD Series, Keyed A, Self-Threading, Potting, Black Body	4	100A
	ATHD04-1-8P-BM11	Single Position, Receptacle, Pin, Size 8, Gold-Plated, BoardLock™ ATHD Series, Self-Threading, No Potting, Black Body	8	60A
	ATHD04-1-8P-BM12	Single Position, Receptacle, Pin, Size 8, Gold-Plated, BoardLock™ ATHD Series, Self-Threading, Potting, Black Body	8	60A
	ATHD04-1-8P-BM13	Single Position, Receptacle, Pin, Size 8, Nickel-Plated, BoardLock™ ATHD Series, Self-Threading, No Potting, Black Body	8	60A
	ATHD04-1-8P-BM14	Single Position, Receptacle, Pin, Size 8, Nickel-Plated, BoardLock™ ATHD Series, Self-Threading, Potting, Black Body	8	60A
	ATHD04-1-12P-BM11	Single Position, Receptacle, Pin, Size 12, Gold-Plated, BoardLock™ ATHD Series, Self-Threading, No Potting, Black Body	12	25A
	ATHD04-1-12P-BM12	Single Position, Receptacle, Pin, Size 12, Gold-Plated, BoardLock™ ATHD Series, Self-Threading, Potting, Black Body	12	25A
	ATHD04-1-12P-BM13	Single Position, Receptacle, Pin, Size 12, Tin-Plated, BoardLock™ ATHD Series, Self-Threading, No Potting, Black Body	12	25A
	ATHD04-1-12P-BM14	Single Position, Receptacle, Pin, Size 12, Tin-Plated, BoardLock™ ATHD Series, Self-Threading, Potting, Black Body	12	25A

BoardLock™ ATFHD Series - Receptacles

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.









	ATFHD13-1-4P-BM11	Single Position, Receptacle, Pin, Gold-Plated, BoardLock™ ATFHD Series, Self-Tapping, Black Body	4	100A
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Image	Part Number	Description	Contact Size	Amp
	ATFHD13-1-4P-BM13	Single Position, Receptacle, Pin, Nickel-Plated, BoardLock™ ATFHD Series, Self-Tapping, Black Body	4	100A

PanelMate™ ATHD Series - Receptacles

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.

	ATHD04-1-4P-L009	Single Position, Receptacle with Inside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD Series, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body	4	100A
	ATHD04-1-4P-L013	Single Position, Receptacle with Outside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD Series, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body	4	100A
	ATHD04-1-8P-PM05	Single Position, Receptacle with Flange, Pin, Size 8, PanelMate™ ATHD Series, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body	8	60A
	ATHD04-1-8P-PM11	Single Position, Receptacle with Flange, Pin, Size 8, PanelMate™ ATHD Series, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body	8	60A
	ATHD04-1-12P-PM05	Single Position, Receptacle with Flange, Pin, Size 12, PanelMate™ ATHD Series, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body	12	25A
	ATHD04-1-12P-PM11	Single Position, Receptacle with Flange, Pin, Size 12, PanelMate™ ATHD Series, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body	12	25A

ATHD Series™ - Contacts

Note: Refer to individual part number datasheets found at www.amphenol-sine.com or our [A Series Contacts Flyer](#).