



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 (1, 2, 4, 5 and 10 Meter).



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

Available Modifications

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



Current Rating	Up to 100A
Voltage Rating	Up to 1000V
Operating Temperature	-55°C to +125°C
Dielectric Withstand Voltage	Less than 2 Milliamps Current Leakage @ up to 3000V AC
Insulation Resistance	1000 Megohms Minimum @ 25°C
Mating Cycle Durability	>100 Cycles
Wire Size	4-14AWG








A Series™ Family



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

Single Position - **ATHD Series™** Receptacles

Image	Part Number	Description	Size	Amp
	ATHD04-1-4P	Single Position, Receptacle, Pin, ATHD™, Black Body	4	100A
	ATHD04-1-8P	Single Position, Receptacle, Pin, ATHD™, Black Body	8	60A
	ATHD04-1-8P-E003	Single Position, Receptacle, Pin, ATHD™, Endcap, Black Body	8	60A
	ATHD04-1-12P	Single Position, Receptacle, Pin, ATHD™, Black Body	12	25A
	ATHD04-1-12P-E003	Single Position, Receptacle, Pin, ATHD™, Endcap, Black Body	12	25A


 Single Position - **BoardLock™ ATFHD** Receptacles

	ATFHD13-1-4P-BM11	Single Position, Receptacle, Pin, Gold-Plated, BoardLock™ ATFHD, Self-Tapping, Black Body	4	100A
	ATFHD13-1-4P-BM13	Single Position, Receptacle, Pin, Nickel-Plated, BoardLock™ ATFHD, Self-Tapping, Black Body	4	100A





 Single Position - **PanelMate™ ATHD** Receptacles

	ATHD04-1-4P-L009	Single Position, Receptacle with Inside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD, 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, 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, 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, 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, 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, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body	12	25A



 Single Position - **ATHD Series™** Plugs

	ATHD06-1-4S	Single Position, Plug, Pin, ATHD™, Black Body	4	100A
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Single Position - **ATHD Series™** Plugs, cont.

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

 Single Position - **StructurePlus™** ATHD Plugs

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

 Single Position - **ATHD Series™** Contacts

Image	Part Number	Description	Size	Amp
	AT60-203-04141-4	Pin, Machined, 4AWG, Copper Alloy, Nickel-plated	4	100A
	AT60-204-0490	Pin, Machined, 6AWG, Copper Alloy, Nickel-plated	4	100A
	AT60-204-08141	Pin, Machined, 8-10AWG, Copper Alloy, Nickel-plated	8	60A
	AT60-204-12141	Pin, Machined, 12-14AWG, Copper Alloy, Nickel-plated	12	25A
	AT60-220-1231	Pin, Machined, 12-14AWG, Copper Alloy, Gold-plated	12	25A
	AT62-203-04141	Socket, Machined, 6AWG, Copper Alloy, Nickel-plated	4	100A
	AT62-203-04141-4	Socket, Machined, 4AWG, Copper Alloy, Nickel-plated	4	100A
	AT62-203-08141	Socket, Machined, 8-10AWG, Copper Alloy, Nickel-plated	8	60A
	AT62-203-12141	Socket, Machined, 12-14AWG, Copper Alloy, Nickel-plated	12	25A
	AT62-210-1231	Socket, Machined, 12-14AWG, Copper Alloy, Gold-plated	12	25A

ATHD Series™ Receptacle Dimensions (in mm)

Size	Length A	Length B (-E003 Modification)	ØWidth C	Height D
4P	52.5	-	26.5	29.8
8P	52.9±0.6	53.8	20.3	23.9
12P	52.5±0.6	53.8±0.6	18.0	21.6

BoardLock™ ATFHD Receptacle Dimensions (in mm)

Size	Length A	ØWidth B	Height C
4P	50.1	26.5	37.8

PanelMate™ ATHD Receptacle Dimensions (in mm)

Size	Length A (-L009 Front Flange Mount)	Width B (-L009 Front Flange Mount)	Length C (-L013 Rear Flange Mount)	Width D (-L013 Rear Flange Mount)	Height E (-L009/L013)
4P	52.5	57.3	52.5	57.3	43.3

ATHD Series™ Plug Dimensions (in mm)

Size	Length A	Length B (-E003 Modification)	Length C (-OM Modification- StructurePlus™)	ØWidth D	Height E
4S	38.2	-	-	22.3	29.4
8S	38.1±0.5	39.3±0.5	53.5±0.5	16.8	21.9
12S	38.0±0.5	39.3±0.5	53.0±0.5	14.5	19.6

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

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