Amphenol®

ATHD Connector Series

The heavy duty ATHD connector series for size 12 and size 8 power contacts are sealed, single pole, in-line connection systems to replace splices and/or provide power wherever needed. These thermoplastic connectors are field installable and repairable and can thus replace expensive and unrepairable splices. The power connectors are ruggedized and designed for high vibration applications in the Heavy Equipment and Mining markets.

Additional styles and custom solutions to mate to the ATHD plugs are available upon request, including higher temperature resin and seals for harsh fluid applications.

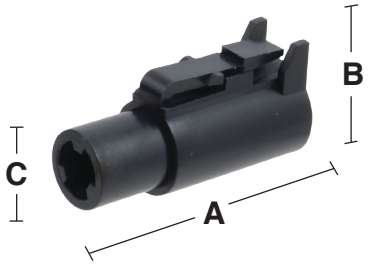
Features:

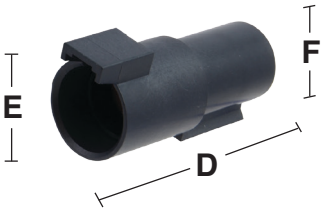
- Size 8 crimp contacts are rated to 70 amps*
- Size 12 crimp contacts are rated to 35 amps*
- Both will meet 100 mating cycles
- Designed for temperatures of -55 °C to 125 °C
- Operating voltage of 1000 VAC
- Dielectric withstanding voltage of 1500 VAC
- RoHS compliant
- Clip slots for a variety of mounting solutions
- IP67 rated

* Using Amphenol's exclusive RADSOK® technology

SPECIFICATIONS

	Size 12 System	Size 8 System
Current Rating	35A with RADSOK®, 25A with standard contacts	70A with RADSOK®, and 60A with standard contacts
Contact Quantity	1	1
Contact Size	12 AWG	8 AWG
Operating Temperature	-55 °C to 125 °C with 150°C upon request	-55 °C to 125 °C with 150°C upon request
Contact Retention	133N	156N
Mating Cycles	100	100
Insulation Resistance	1000MΩ Min. (at 25 °C)	1000MΩ Min. (at 25 °C)
Dielectric Withstanding Voltage	1500 AC (RMS)	1500 AC (RMS)
Moisture Resistance	IP67 (mated)	IP67 (mated)
Operating Voltage	500 VAC	500 VAC
Allowable Wire Size	16-12 AWG	10-8 AWG





PART NUMBERS FOR PLASTIC

Note: Housing Plug must use the Socket terminal (PS) and Housing Receptacle must use Pin terminal (RP).

ATHD - 1PS - 12 (XX)

- ATHD: Series
- 1: One Terminal
- PS: Housing (P=Plug, R=Receptacle) +Terminal (P=Pin, S=Socket)
- 12: Contact Size (8 or12)
- (XX): Special Additions: (16) for 16 Gage Cable

	Size 12 System for 12 gage cable	Size 12 System for 16 gage cable	Size 8 System
Plug	ATHD-1PS-12	ATHD-1PS-12 (16)	ATHD-1PS-8
Receptacle	ATHD-1RP-12	ATHD-1RP-12 (16)	ATHD-1RP-8

	ATHD PLUG			ATHD RECEPTACLE		
CONTACT SIZE	**OVERALL LENGTH A**	**OVERALL HEIGHT B**	**OVERALL WIDTH C**	**OVERALL LENGTH D**	**OVERALL HEIGHT E**	**OVERALL WIDTH F**
12	1.498(38.05)	.771(19.58)	.570(14.48)	2.073(52.65)	.850(21.59)	.710(18.08)
8	1.498(38.05)	.861(21.87)	.660(16.76)	2.073(52.65)	.940(23.88)	.800(20.32)

PART NUMBERS FOR TERMINALS

Amphenol PN	Terminal Description
10-729936-121	Male pin size 12 machined w/ silver plating
10-729936-122	Male pin size 12 machined w/ nickel plating
10-729936-123	Male pin size 12 machined w/ tin plating
10-729936-161	Male pin size 12 machined w/ silver plating to crimp to 16 gage cable
10-729936-162	Male pin size 12 machined w/ nickel plating to crimp to 16 gage cable
10-729936-163	Male pin size 12 machined w/ tin plating to crimp to 16 gage cable
10-730402-121	Female socket size 12 machined w/ silver plating
10-730402-122	Female socket size 12 machined w/ nickel plating
10-730402-123	Female socket size 12 machined w/ tin plating
10-730402-161	Female socket size 12 machined w/ silver plating to crimp to 16 gage cable
10-730402-162	Female socket size 12 machined w/ nickel plating to crimp to 16 gage cable
10-730402-163	Female socket size 12 machined w/ tin plating to crimp to 16 gage cable
10-730742-121	Size 12 Radsok machined socket, silver plating
10-730526-081	Size 8 Radsok machined socket, silver plating
10-729867-081	Male pin size 8 machined w/ silver plating
10-729867-082	Male pin size 8 machined w/ nickel plating
10-729867-083	Male pin size 8 machined w/ tin plating
10-730401-081	Female socket size 8 machined w/ silver plating
10-730401-082	Female socket size 8 machined w/ nickel plating
10-730401-083	Female socket size 8 machined w/ tin plating

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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