



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

## PART NUMBERS FOR TERMINALS

**ATHD - 1 P - N - S - 12 (XX)**

Series      One Terminal      P=Pin  
S=Socket

Plating =  
G = Gold  
S = Silver  
(Machined only)  
N = Nickel  
T = Tin

Size (8 or 12)

Special Additions:  
(16) for 16 Gauge Cable (Size 12 only)  
(R) for Radsok (Machined only)

S = Stamped & Formed  
(Size 12 only)  
M = Machined



**ATHD size 12  
with Stamps and Formed Contacts**

## PART NUMBERS FOR PLASTIC

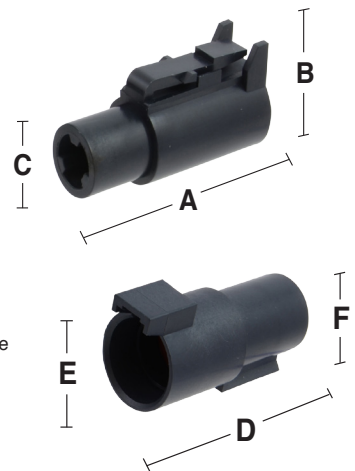
Note: Housing Plug must use the Socket terminal (PS) and Housing Receptacle must use Pin terminal (RP).

**ATHD - 1PS - 12 (XX)**

Series      One Terminal      Contact Size (8 or 12)

Housing +Terminal = (PS for Plug with  
Socket or RP for Receptacle with Pin)

Special Additions:  
(16) for 16 Gauge Cable



|                   | Size 12 System for 12 gauge cable | Size 12 System for 16 gauge cable | Size 8 System |
|-------------------|-----------------------------------|-----------------------------------|---------------|
| <b>Plug</b>       | ATHD-1PS-12                       | ATHD-1PS-12 (16)                  | ATHD-1PS-8    |
| <b>Receptacle</b> | ATHD-1RP-12                       | ATHD-1RP-12 (16)                  | ATHD-1RP-8    |

|              | ATHD PLUG           |                     |                    | ATHD RECEPTACLE     |                     |                    |
|--------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|
| CONTACT SIZE | OVERALL LENGTH<br>A | OVERALL HEIGHT<br>B | OVERALL WIDTH<br>C | OVERALL LENGTH<br>D | OVERALL HEIGHT<br>E | OVERALL WIDTH<br>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)        |

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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## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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