

# ATHD | Series™



# ATHD Series™

## Overview

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



ATHD Size 12  
with Stamped and Formed Contacts

### Mechanical 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

ATHD Series™ PLUGS & RECEPTACLES

ATHD Series™

PART NUMBERS FOR TERMINALS

<b>ATHD</b>	-	<b>1</b>	<b>P</b>	-	<b>N</b>	-	<b>S</b>	-	<b>12</b>	<b>XX</b>
<b>1</b>		<b>2</b>	<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>	<b>7</b>

1 Series  
 2 One terminal  
 3 Gender P = Pin  
 S = Socket  
 4 Plating  
 G= Gold  
 S= Silver (machined only)  
 N= Nickel  
 T= Tin  
 5 Contacts  
 S= Stamped & Formed (size 12 only)  
 M= Machined  
 6 Contact Size 8 or 12  
 7 Special Additions:  
 16 = 16 Gauge Cable (Size 12 only)  
 R= Radsok (Machined only)

PART NUMBERS FOR PLASTIC

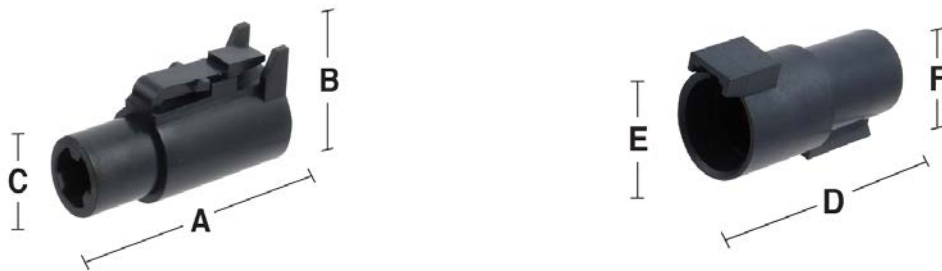
<b>ATHD</b>	-	<b>1</b>	<b>PS</b>	-	<b>12</b>	<b>XX</b>
<b>1</b>		<b>2</b>	<b>3</b>		<b>4</b>	<b>5</b>

1 Series  
 2 One terminal  
 3 Housing + Terminal\*  
 PS = Plug with Socket  
 RP = Receptacle with Pin  
 4 Contact Size 8 or 12  
 5 Special Additions:  
 16 = 16 Gauge Cable

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

Part Numbers:

	Size 12 System for 12 gauge cable	Size 12 System for 16 gauge 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



Contact Size	ATHD Plug			ATHD Receptacle		
	Overall Length			Overall Length		
	A	B	C	A	B	C
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)

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