



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

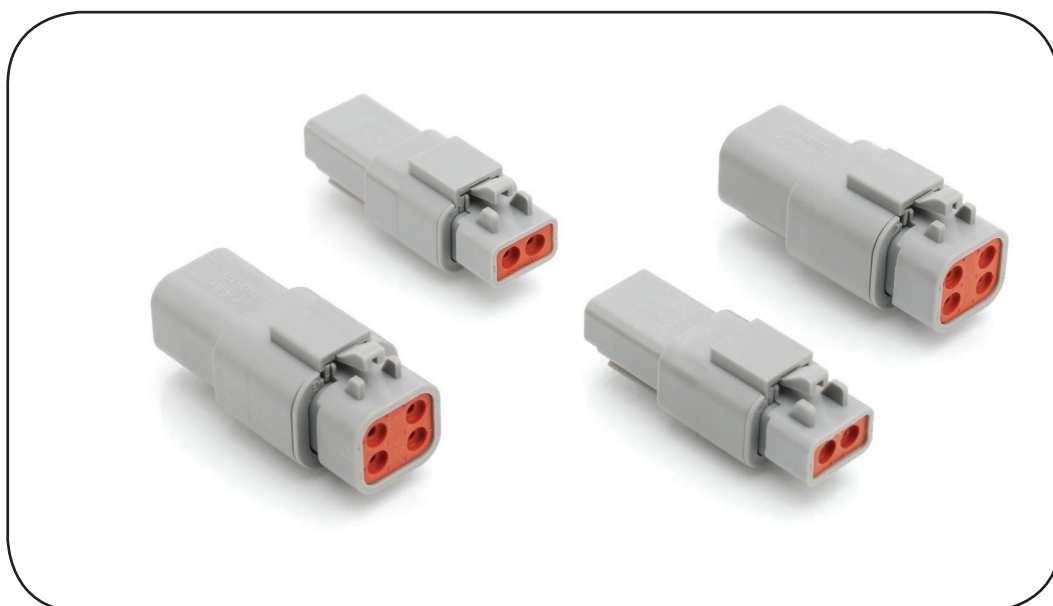
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# ATP | Series™

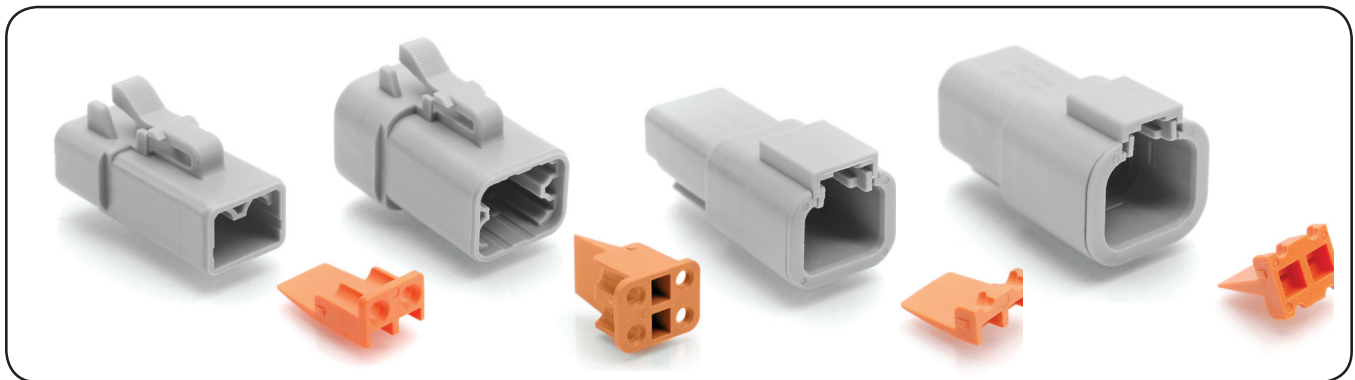


# ATP Series™

## Overview

ATP Series™ connectors are designed as a high-performance, cost-effective, thermoplastic solution to be used within the Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy fields, as well as other demanding interconnect applications. Available in 2 and 4 position options, the ATP Series™ Connectors contain superior environmental seals, seal retention capabilities and are designed for use with 10-14AWG with size 12 contacts handling up to 25A.

ATP Series™ connectors are compatible with other existing standard products industry-wide.



## Features & Benefits

Current Capacity	Size 12, 25A (max)
Wire Range	Size 12 contacts will accept wire ranges of 12 thru 14AWG
Temperature	Operative at temperatures from -55°C to +125°C. Continuous at rated current.
Dielectric Withstanding Voltage	Current leak less than 2 milliamps at 1500 VAC
Physical Shock	No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three usually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202. Method 213, Condition "C".
Vibration	Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.
Insulation Resistance	1000 megohms minimum at 25°C
Corrosion Resistance	Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL - STD 1344, method 1001.
Submersion	IP67. Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.
Fluid Resistance	Connectors show no damage when exposed to most fluids used in industrial application.
Contact Retention Contacts (minimum load)	70lbs. for Size 12 contacts.
Thermal Cycle	No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.
Durability	No electrical or mechanical defects after 100 cycles of engagement and disengagement.



# ATP Series™

## Features & Benefits, cont.

### Contact Resistance

Contacts  
Wire Gauge

Size 12  
12AWG

Contact Milivolt Drop

Size 12 (stamped & formed) contacts with 12AWG conductor - 60 mV (solid contact) drop max; 100 mV (stamped & formed contact) drop max at 25A test current

### Wire Sealing Range

Contacts  
Recommended Wire  
Installation O.D.

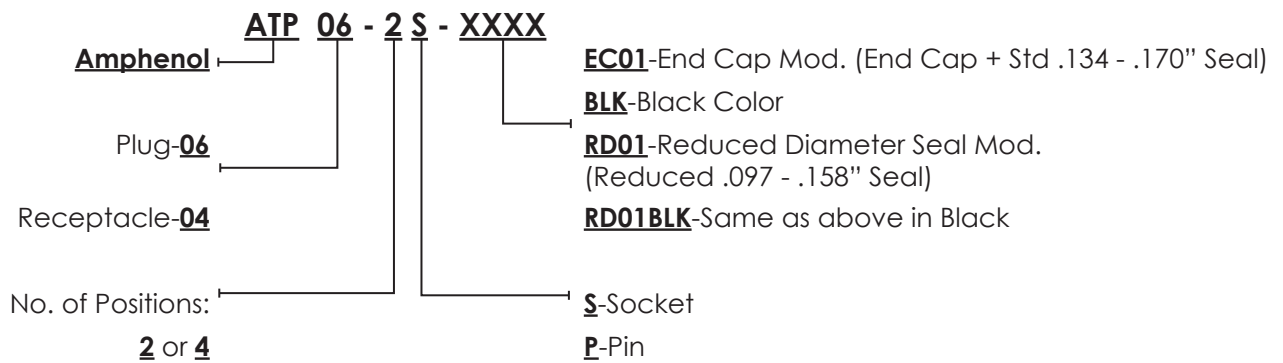
Size 12  
Standard (S-Seal) .134-.195"  
Thin Wall (RD-Seal) .097-.158"

### Product Material

Shell  
Seals  
Wedge  
Contacts

Thermoplastic  
Silicone Elastomer  
Thermoplastic  
Pins: Copper alloy; Sockets: Copper alloy; Finish: Nickel-plated (optional Gold)

## ATP Series™ Part Numbering Sequence



Color	Modification Number	Color	Modification Number
Black	XXXX-XXXX- <b>BLK</b>	Yellow	XXXX-XXXX- <b>YEL</b>
White	XXXX-XXXX- <b>WHT</b>	Green	XXXX-XXXX- <b>GRN</b>
Brown	XXXX-XXXX- <b>BRN</b>	Blue	XXXX-XXXX- <b>BLU</b>
Grey	XXXX-XXXX- <b>GRY</b>	Red	XXXX-XXXX- <b>RED</b>



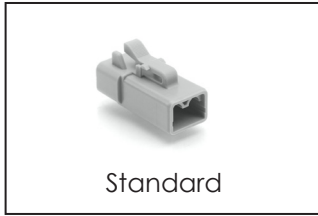
**NOTE:** The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

# ATP Series™ Connector Configurations

## STEP 1

Choose a Plug

MATING PARTS

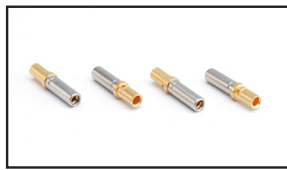


Wedgelocks are required for all Plugs

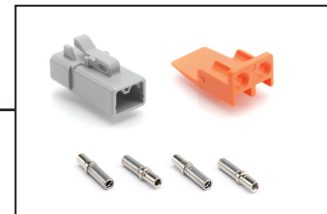


## STEP 2

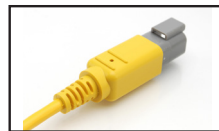
Choose Contacts



Or  
Choose a Plug Kit



Plug Kit includes Plug, Wedgelock & Contacts



Overmolded option  
page 11

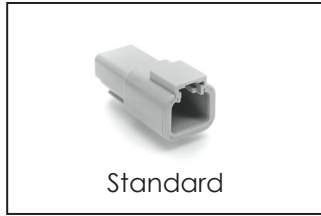
## Need a complete Cable Assembly?

See page 11 or contact the factory for assistance

Toll Free: 1-800-394-7732

### STEP 3

Choose a Receptacle



Wedgelocks are required for all Receptacles

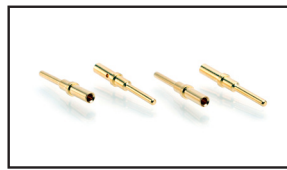


Or  
Choose a  
Receptacle Kit



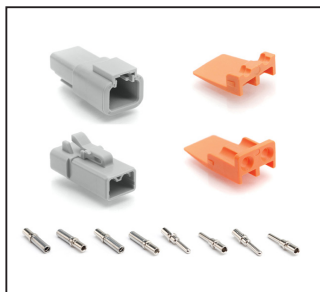
### STEP 4

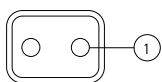
Choose Contacts



Overmolded option  
page 11

Or  
Choose a Plug &  
Receptacle Kit





**ATP SERIES STANDARD  
 PLUGS, RECEPTACLES & WEDGELOCKS**

Contact Size	<b>12</b>
Wire Range (AWG)	10-14 AWG
Amperage	25

Plug	Part Number	Description	Wedglock	Part Number	Description
	ATP06-2S	Plug, 2-Way		AWP-2S	Wedglock Plug, 2-Way
	ATP06-2S-KIT01	2 Socket Plug, Wedge and Contacts Kit			
	ATP06-2S-BLK	Plug, 2-Way Black		AWP-2S	Wedglock Plug, 2-Way

Receptacle	Part Number	Description	Wedglock	Part Number	Description
	ATP04-2P	Receptacle, 2-Way		AWP-2P	Wedglock Receptacle, 2-Way
	ATP04-2P-KIT01	2 Pin Receptacle, Wedge and Contacts Kit			
	ATP04-2P-BLK	Receptacle, 2-Way Black		AWP-2P	Wedglock Receptacle, 2-Way

Plug & Receptacle Kit	Part Number	Description
	ATP2PS-CKIT	2-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

**NOTE:** Wedglocks are required for all plug and receptacles

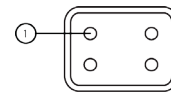
**Other Available Options:**

- End Caps see page 94
- Reduced Diameter Seals see page 95
- Contacts see page 101
- Tools see page 102



ATP PANEL | MATE  
 FLANGE MOUNT HARSH ENVIRONMENT CONNECTORS  
 see page 99

# ATP SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS



**ATP**  
**4 POSITIONS**  
**25A**

Contact Size	<b>12</b>
Wire Range (AWG)	10-14 AWG
Amperage	25

Plug	Part Number	Description	Wedglock	Part Number	Description
	ATP06-4S	Plug, 4-Way		AWP-4S	Wedglock Plug, 4-Way
	ATP06-4S-KIT01	4 Socket Plug, Wedge and Contacts Kit			
	ATP06-4S-BLK	Plug, 4-Way Black		AWP-4S	Wedglock Plug, 4-Way
Receptacle	Part Number	Description	Wedglock	Part Number	Description
	ATP04-4P	Receptacle, 4-Way		AWP-4P	Wedglock Receptacle, 4-Way
	ATP04-4P-KIT01	4 Pin Receptacle, Wedge and Contacts Kit			
	ATP04-4P-BLK	Receptacle, 4-Way Black		AWP-4P	Wedglock Receptacle, 4-Way
Plug & Receptacle Kit	Part Number	Description			
	ATP4PS-CKIT	4-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit			

**NOTE:** Wedglocks are required for all plug and receptacles

### Other Available Options:

- End Caps see page 94
- Reduced Diameter Seals see page 95
- Contacts see page 101
- Tools see page 102



ATP PANEL | MATE  
FLANGE MOUNT HARSH ENVIRONMENT CONNECTORS  
see page 99


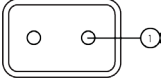


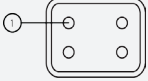




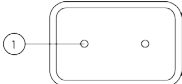


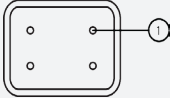

ATP SERIES STANDARD PLUG and RECEPTACLE  
END CAPS

Contact Size	<b>12</b>
Wire Range (AWG)	10-14 AWG
Amperage	25

AT Series™ connectors offer several modifications for increased design flexibility or special application requirements.

END CAPS

Plug	Faceview	Part Number	Description	Wedglock Part Number
		ATP06-2S-EC01	2-Way Plug, Female Connector with End Cap	 AWP-2S
		ATP06-4S-EC01	4-Way Plug, Female Connector with End Cap	 AWP-4S

Receptacle	Faceview	Part Number	Description	Wedglock Part Number
		ATP04-2P-EC01	2-Way Receptacle, Male Connector with End Cap	 AWP-2P
		ATP04-4P-EC01	4-Way Receptacle, Male Connector with End Cap	 AWP-4P

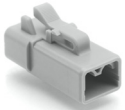
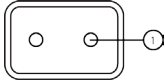



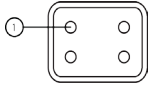


**NOTE:** Wedglocks are required for all plug and receptacles.


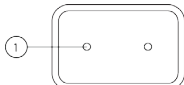


# ATP SERIES STANDARD PLUG and RECEPTACLE REDUCED DIAMETER SEALS

**ATP**  
**REDUCED DIA.**  
**SEALS 25A**

Contact Size	12
Wire Range (AWG)	10-14 AWG
Amperage	25

## REDUCED DIAMETER SEALS (.053" - .120")

Plug	Faceview	Part Number	Description	Wedglock Part Number
		ATP06-2S-RD01	2-Way Plug, Female Connector with Reduced Diameter Seal	 AWP-2S
		ATP06-2S-RD01BK	2-Way Plug, Female Connector with Reduced Diameter Seal, Black	
		ATP06-4S-RD01	4-Way Plug, Female Connector with Reduced Diameter Seal	 AWP-4S
		ATP06-4S-RD01BK	4-Way Plug, Female Connector with Reduced Diameter Seal, Black	

Receptacle	Faceview	Part Number	Description	Wedglock Part Number
		ATP04-2P-RD01	2-Way Receptacle, Male, Reduced Diameter Seal	 AWP-2P
		ATP04-4P-RD01	4-Way Receptacle, Male, Reduced Diameter Seal	

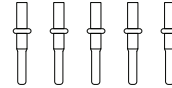
**NOTE:** Wedglocks are required for all plug and receptacles.



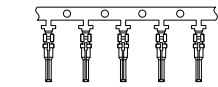
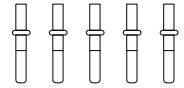
Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage.



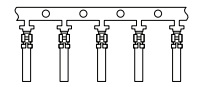
Solid/Machined Male Pins



Solid/Machined Female Sockets



Stamped & Formed Male Pins



Stamped & Formed Female Sockets

## Standard Contacts - Solid Sockets & Pins

Series	Size	AWG	Type	Part Number	Description
ATP	12	12-14	Solid	AT62-210-1231	Female Contact - Socket, Gold-plated
ATP	12	12-14	Solid	AT62-203-12141	Female Contact - Socket, Nickel-plated
ATP	12	12-14	Solid	AT60-220-1231	Male Contact - Pin, Gold-plated
ATP	12	12-14	Solid	AT60-204-12141	Male Contact - Pin, Nickel-plated

## Standard Contacts - Stamped & Formed Sockets & Pins

Series	Size	AWG	Type	Part Number	Description
ATP	12	12-14	S & F	AT62-12-0166	Female Contact - Socket, Nickel-plated
ATP	12	12-14	S & F	AT62-12-0144	Female Contact - Socket, Gold-plated
ATP	12	12-14	S & F	AT60-12-0166	Male Contact - Pin, Nickel-plated
ATP	12	12-14	S & F	AT60-12-0144	Male Contact - Pin, Gold-plated
ATP	12	10-12	S & F	AT62-12-0222	Female Contact - Pin, Nickel-plated
ATP	12	10-12	S & F	AT60-12-0222	Male Contact - Pin, Nickel-plated



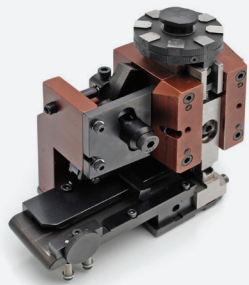

## Specialty Contacts - DiagnosticGrade™ Solid Sockets & Pins

Smaller AWG for diagnostic applications; Gold-plated; increased mating cycles; cost-effective.


Series	Size	AWG	Type	Part Number	Description
ATP	12	20	Solid	AT62-210-1231-1820	Female Contact - Socket, DiagnosticGrade, Gold-plated
ATP	12	20	Solid	65-54749	Male Contact - Pin, DiagnosticGrade, Gold-plated

Crimp Tools

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage. Below are the tools available to assist with your crimping needs to ensure a proper connection between contact and wire.

Part	Part Number	Description
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 *Solid contacts only
	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
	MFX-3973	Crimp Die - Size 12 (Stamped & Formed Contacts)
	ATT-12-00	Size 12, 12AWG, Stamped & Formed Contact Tool

AT Series™ Contact Removal Tool

Part	Part Number	Description
	ATRT-100	Used for removal of contacts for AT Series™ products



Seal Plugs



ATP	16	12-16	-	A114017	Seal Plugs, White
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Backshells

Part	Part Number	Description
	ATP06-4S-NC12	Backshell for 4 Position Plug or Receptacle