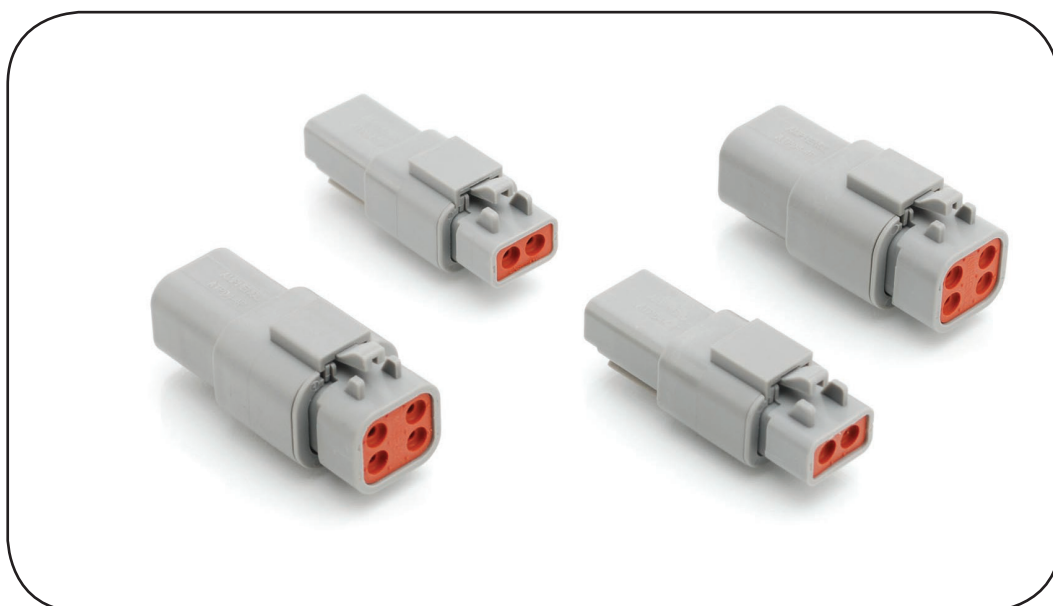


ATP | Series™

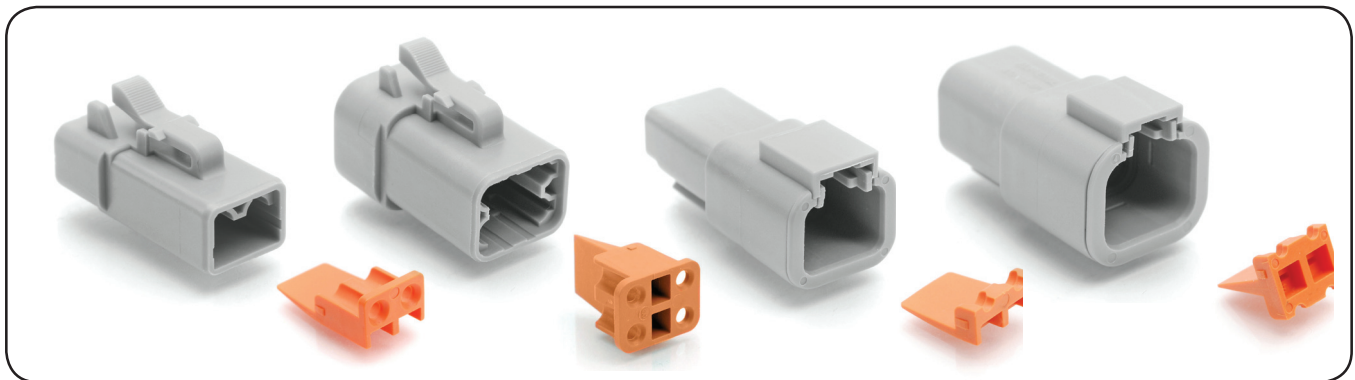


ATP Series™

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.

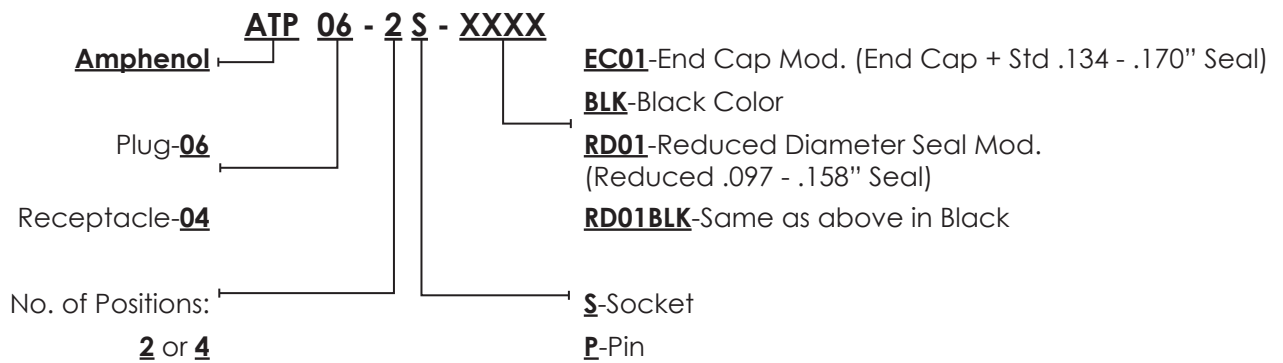
Size 12
Standard (S-Seal) .134-.195"
Thin Wall (RD-Seal) .097-.158"

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- BLK	Yellow	XXXX-XXXX- YEL
White	XXXX-XXXX- WHT	Green	XXXX-XXXX- GRN
Brown	XXXX-XXXX- BRN	Blue	XXXX-XXXX- BLU
Grey	XXXX-XXXX- GRY	Red	XXXX-XXXX- RED



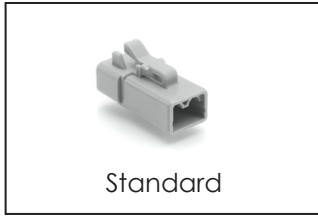
NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

ATP Series™ Connector Configurations

STEP 1

Choose a Plug

MATING PARTS



Wedgelocks are required for all Plugs

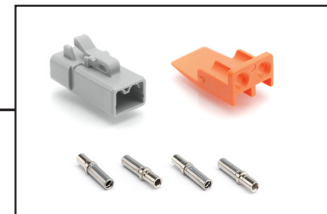


STEP 2

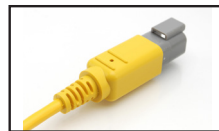
Choose Contacts



Or
Choose a Plug Kit



Plug Kit includes Plug, Wedgelock & Contacts



Overmolded option
page 11

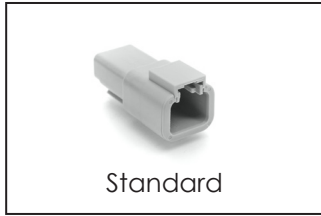
Need a complete Cable Assembly?

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

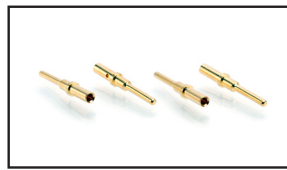


Or
Choose a
Receptacle Kit



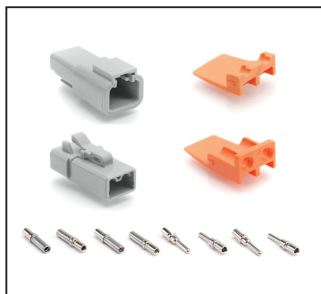
STEP 4

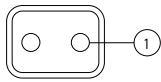
Choose Contacts



Overmolded option
page 11

Or
Choose a Plug &
Receptacle Kit





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

Contact Size	12
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

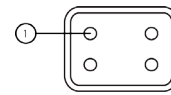
Other Available Options:

- 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	12
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


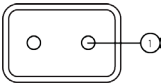


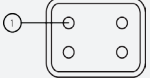




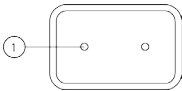


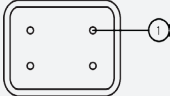

ATP PANEL | MATE
FLANGE MOUNT HARSH ENVIRONMENT CONNECTORS
see page 99

Contact Size	12
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


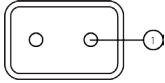



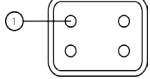


NOTE: Wedglocks are required for all plug and receptacles.


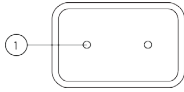


ATP SERIES STANDARD PLUG and RECEPTACLE REDUCED DIAMETER SEALS

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	

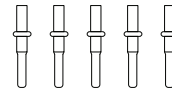
Receptacle	Faceview	Part Number	Description	Wedglock Part Number
		ATP04-2P-RD01	2-Way Receptacle, Male, Reduced Diameter Seal	 AWP-2P
		ATP04-4P-RD01	4-Way Receptacle, Male, Reduced Diameter Seal	

NOTE: Wedglocks are required for all plug and receptacles.

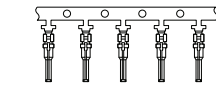
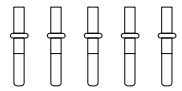
Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage.



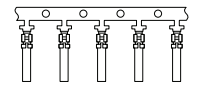
Solid/Machined Male Pins



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



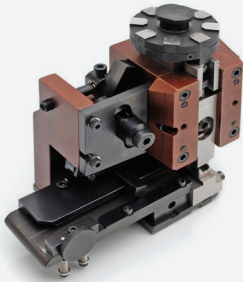

Specialty Contacts - DiagnosticGrade™ Solid Sockets & Pins

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