



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!



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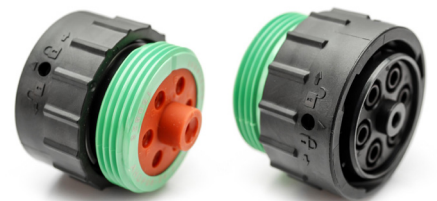
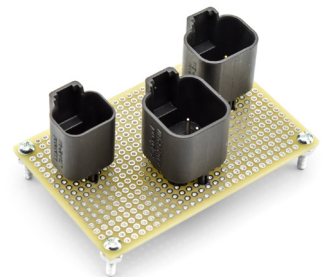




A Series

Thermoplastic Connectors

Standard products.
Custom solutions.



We Are Amphenol

Global Interconnect Solution Supplier

For over 80 years Amphenol has enjoyed success as the interconnection technology provider of choice for industry leading companies around the world. Our organization works with leading manufacturers across a wide range of applications - including Energy Generation & Distribution, Transportation, Heavy Equipment, Factory Automation, Wireless Outdoor, Information Technology and Data Communications Equipment, Mobile Devices, Mobile Networks, Broadband Communication, Military and Commercial Aerospace, Industrial, Automotive and Chip Card Readers - enabling smarter, faster and better technologies to connect products to customer solutions.

Our engineers design innovative combinations of industry standard connectors and application specific shielding components to create assembly systems that set the standards for performance, reliability, and cost effectiveness. Our engineering, materials, and manufacturing organizations meet the high standards imposed by ISO 9001:2008 as well as many customer specific quality systems. Our performance has earned us ship to stock and world class performance awards from many major OEMs.

We are one of the largest interconnect solution suppliers in the world and supply a wide range of product solutions globally. The industrial market footprint of Amphenol covers more than 30 countries.



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Standard products. Custom solutions.

Our A Series™ product lines, which include AT, ATP, ATM and AHD Series™, have key placement in all areas of Heavy Duty Equipment, Agriculture, Marine, Automotive, Military, Alternative Energy and other demanding interconnect applications. Based on our superior build quality, high-performance capabilities and having been developed to be compatible with all other existing standard products industry-wide, our A Series™ products are perfect alternatives for you.

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.

By combining locally-based Program Management & Engineering, along with the associated cost advantages derived from manufacturing in our low-cost production centers in North America and Asia, our Team will work with you to design the most cost-efficient and reliable interconnect system available.



Features and Benefits

Plastic Rectangular & Circular Connectors

Amphenol's plastic rectangular & circular connectors encompass a wide range of products serving a variety of industries

High Performance / Cost Effective

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.

Industry Standard

Our superior built quality, high-performance connectors have been developed to be compatible with all other existing standard products industry-wide

Environmental

A Series connectors span the gap between controlled environments to harsh conditions. Rated IP67+

Standards

A Series connectors are tested to perform to the highest industry standards. See performance standards for more information.

A Series™ Amphenol Transportation

Typical Applications



AUTOMOTIVE



HEAVY EQUIPMENT



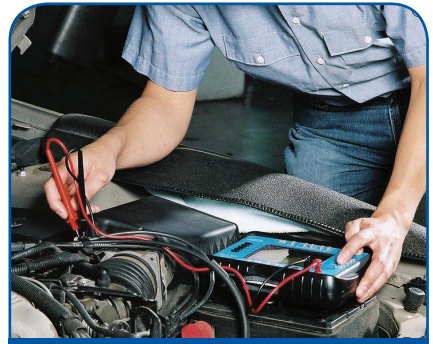
AGRICULTURE



POWER GENERATION



MARINE



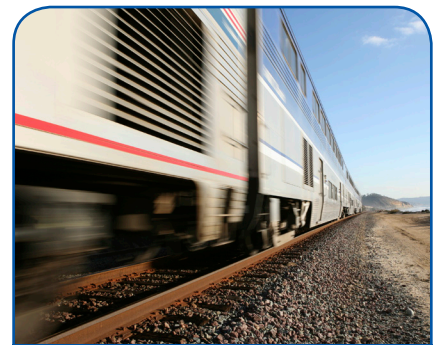
Diagnostics



MINING



MASS TRANSIT



RAILWAY



MOBILE EQUIPMENT



HARSH ENVIRONMENT

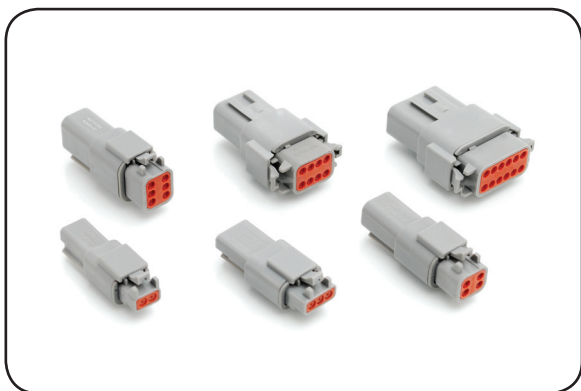


WATER RESISTANT

A Series Amphenol Transportation

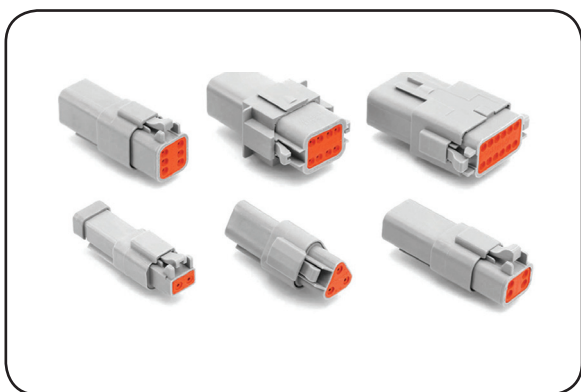
Product Overview

Amphenol's A Series™ connectors encompass a wide range of products serving a variety of industries. With applications in Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural industries, as well as spanning the gap between controlled to harsh environmental conditions, our A Series™ connectors keep you connected with confidence. While our mission is to always provide the best economic alternatives to today's existing standard connector markets, it is through our constant efforts to improve on those standard products that truly display our innovative product designs.



ATM Series™ See page 21 2, 3, 4, 6, 8 and 12 positions available

- 16-22AWG, 7.5A, Size 20
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide.



AT Series™ See page 41 2, 3, 4, 6, 8 and 12 positions available

- 14-20AWG, 13A, Size 16
- High-performance, cost-effective
- Superior environmental seal retention
- RockSolid™ Contact technology (optional)
- Compatible with existing standard products industry-wide



ATP Series™ See page 87 2 and 4 position available

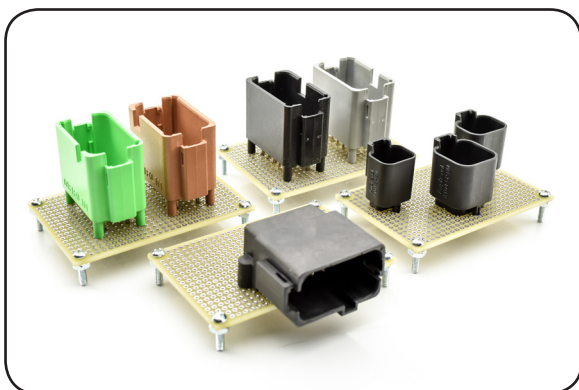
- 10-14AWG, 25A, Size 12
- High-performance, cost-effective
- Superior environmental seal retention capabilities
- Compatible with existing standard products industry-wide

Standard Products. Custom Solutions.



Panel | Mate™ See page 81
2, 3, 4, 6, 8 and 12 Position / Size 16, 13A
13 Position / Size 12, 25A; Size 16, 13A

- large mounting options
- Mates with AT/ATP Series Plugs
- Harsh environment applications



Boardlock™ See page 75
2, 3, 4, 6, 8 and 12 Position / Size 16, 13A
13 Position / Size 12, 25A; Size 16, 13A

- Environmentally sealed thermoplastic connection system
- Perfect for power or data signal applications
- Compatible with existing standard products industry-wide



AHD Series™ See page 105
6 and 9 positions available

- 6 position: 10-14AWG, 25A, Size 12
- 9 position: 14-20AWG, 13A, Size 16
- High-performance, cost-effective
- Ideal for controlled/uncontrolled environmental conditions
- Compatible with existing standard products industry-wide



DuraMate™ See page 127
Available in Size 24 with 7, 19, 21, 23, 27, 29, 31 and 47 Position Insert Arrangements and Size 18 with 14 Positions

- 2,3,4,6,8,12 and 13 Positions Size 16 / 13A
- 14-20AWG, 13A, Size 16
- Polarized for proper mating of connector halves
- High density signal and mixed power insert configurations
- High Current configurations incorporating RADSOK contacts.

Product Overview (con't)



Multi | Mate™ See page 167
Trunk (Size 12, 25A Max) and
Drop (Size 16, 13A Max),
or
Trunk (Size 16, 13A Max) and
Drop (Size 16, 13A Max)

- Overmolded "Plug & Play" connections for power, signal and data
- Mates with AT/ATP Series Plugs
- Heavy-duty applications



HydroNet™ See page 163
Two 4 Pin AT/DT Interfaces

- Multi-Hub Adapter
- Provides flexibility and reliability when connecting multiple devices to NMEA 2000 network
- Powers the NMEA network in a rugged compact and environmentally sealed package



Magna | Mate™ See page 171
2 Positions Heavy Duty High Power Connector

- Designed to withstand the extreme conditions
- Features Amphenol's RADSOK contact technology
- Constructed of heavy-duty thermoplastic
- Able to withstand extreme vibration and mechanical shock
- IP67 and IP69k rated



ATC Series™ See page 121
Cylindrical, Thermoplastic, Harsh Environment,
Power Connector

- Jam nut and square flange mounting styles solution
- Quick mating and unmating reverse bayonet coupling
- Environmentally sealed

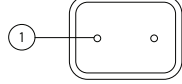
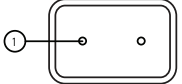
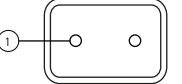

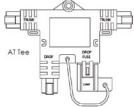
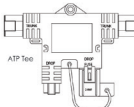
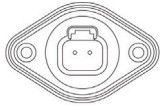
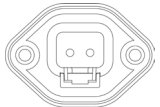
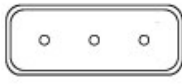
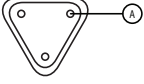
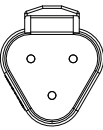
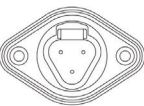


ATHD Series™ See page 125
1 Positions Heavy Duty High Power Connector

- Size 8 crimp contacts are rated to 70A with RADSOK technology
- Size 12 crimp contacts are rated to 35A with RADSOK technology
- Constructed of heavy-duty thermoplastic

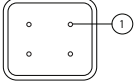
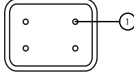
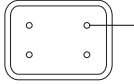

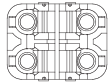
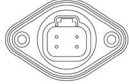
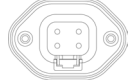
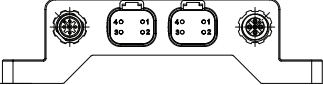
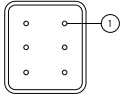
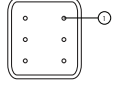
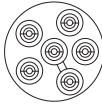
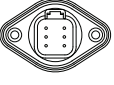
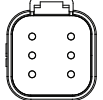
Insert Arrangements - Faceviews

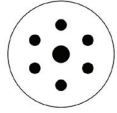
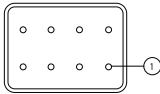
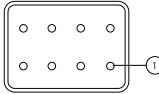
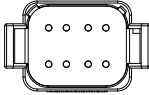
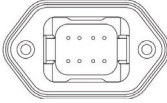
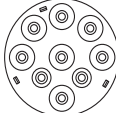

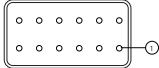
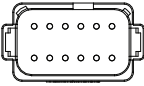
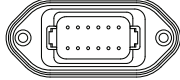
2-3 Positions

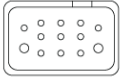
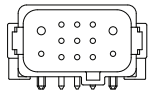
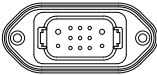
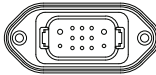
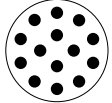
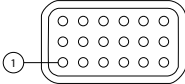
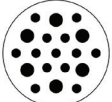


No. of Positions	Series				
	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size(s)	20	16	12	12,16	12,16,20
2 POSITIONS					
	STANDARD 2 POSITIONS / 7.5A page 26	STANDARD 2 POSITIONS / 13A page 46	STANDARD 2 POSITIONS / 25A page 92		
					
		BOARDLOCK 2-13 POSITIONS / 13A page 77			
					
		MULTIMATE 2,4 POSITIONS / 13A, 25A page 169	MULTIMATE 2,4 POSITIONS / 13A, 25A page 169		
					
	PANELMATE 2-13 POSITIONS / 13A page 81	PANELMATE 2,4,13 POSITION / 16A, 25A page 99			
3 POSITIONS					
	STANDARD 3 POSITIONS / 7.5A page 27	STANDARD 3 POSITIONS / 13A page 47			
					
		BOARDLOCK 2-13 POSITIONS / 13A page 77			
					
	PANELMATE 2-13 POSITIONS / 13A page 81				

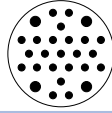

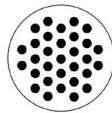
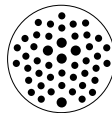
Insert Arrangements - Faceviews

4-6 Positions


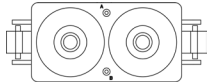
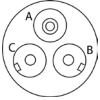
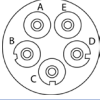

		Series				
No. of Positions		ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size		20	16	12	12,16	12,16,20
4 POSITIONS						
		STANDARD 4 POSITIONS / 7.5A page 28	STANDARD 4 POSITIONS / 13A page 48	STANDARD 4 POSITIONS / 25A page 93		
						
			BOARDLOCK 2-13 POSITIONS / 13A page 77			
						
			MULTIMATE 2.4 POSITIONS / 13A, 25A page 169			
						
		PANELMATE 2-13 POSITIONS / 13A page 81	PANELMATE 2.4, 13 POSITIONS / 13A, 25A page 99			
						
		HYDRONET 4 POSITIONS AT NEEMA ADAPTER on page 165				
6 POSITIONS						
		STANDARD 6 POSITIONS 7.5A on page 29	STANDARD 6 POSITIONS 13A on page 49		STANDARD 6 POSITIONS 25A on page 110	
						
			PANELMATE 6 POSITIONS / 13A on page 49			
						
		BOARDLOCK 2-13 POSITIONS / 13A page 77				

		Series				
No. of Positions		ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size		20	16	12	12,16	12,16,20
7 POSITIONS						
						DURAMATE 7 POSITIONS / 25A,80A page 133
8 POSITIONS						
	STANDARD 8 POSITIONS / 7.5A page 30	STANDARD 8 POSITIONS / 13A page 50				
						
		BOARDLOCK 2-13 POSITIONS / 13A page 77				
						
	PANELMATE 2-13 POSITIONS / 13A page 81					
9 POSITIONS						
					STANDARD 9 POSITIONS / 13A on page 111	
12 POSITIONS						
	STANDARD 12 POSITIONS / 7.5A page 32	STANDARD 12 POSITIONS / 13A page 52				
						
		BOARDLOCK 2-13 POSITIONS / 13A page 77				
						
	PANELMATE 2-13 POSITIONS / 13A page 81					

No. of Positions	Series				
	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size	20	16	12	12,16	12,16,20
13 POSITIONS					
		STANDARD 13 POSITIONS / 13A page 54			
					
		BOARDLOCK 2-13 POSITION / 13A,25A page 77			
					
	PANELMATE 2-13 POSITIONS / 13A page 81	PANELMATE 2,4,13 POSITIONS / 16A, 25A, page 99			
14 POSITIONS					
					DURAMATE 14 POSITIONS / 13A page 135
18 POSITIONS					
		STANDARD 18 POSITIONS / 13A page 54			
19 POSITIONS					
					DURAMATE 14 POSITIONS / 13A page 135
21 POSITIONS					
					DURAMATE 21 POSITIONS / 25A,13A page 141
23 POSITIONS					
					DURAMATE 23 POSITIONS /13A page 145

No. of Positions	Series				
	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size	20	16	12	12,16	12,16,20
27 POSITIONS					 DURAMATE 27 POSITIONS / 25A,13A page 147
29 POSITIONS					 DURAMATE 29 POSITIONS 7.5A,13A,25A page 149
31 POSITIONS					 DURAMATE 31 POSITIONS / 13A page 153
47 POSITIONS					 DURAMATE 47 POSITIONS / 7.5A,13A page 155

High Power & Standard Insert Arrangements - Faceviews 1-9 POSITIONS

No. of Positions	Series		
	MAGNA MATE	ATC	ATHD
Contact Size(s)	3.6mm, 6mm, 8mm	16	8,12
1 POSITIONS High Power			 <p>ATHD 1 POSITION / 25A, 35A, 60A, 70A page 125</p>
	 <p>MAGNAMATE 2 POSITIONS / 86A, 120A, 180A page 171</p>		
2 POSITIONS High Power			
		 <p>ATC 3 POSITIONS / 13A page 121</p>	
3 POSITIONS			
		 <p>ATC 5 POSITIONS / 13A page 121</p>	
5 POSITIONS			
		 <p>ATC 9 POSITIONS / 13A page 121</p>	
9 POSITIONS			

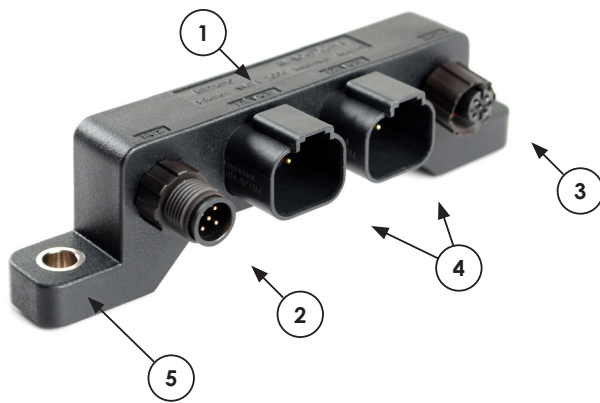
Introducing

Hydro|Net™

- Provides OEM's flexibility and increased reliability when connecting multiple devices to NMEA 2000 network
- Two 4 pin AT/DT interfaces easily adapts devices to field proven, sealed, and serviceable electrical connections
- Powers the NMEA network in a rugged, compact, and environmentally sealed package
- Factory assembled for true Plug and Play capability
- Reduces the need to modify or assemble NMEA connections onto cables
- Allows for customized and built-to-length electrical harnesses eliminating costly coils of unused cable

Feature & Benefits

- Factory assembled part for simplified mounting
- Environmentally-sealed to IP67 rating
- Rugged thermoplastic overmold (UL94-V0) ①
- Micro NMEA - Male ② and Female ③
- 2 - Four (4) position receptacles (AT/DT) with gold pins ④
- Stainless steel inserts for mounting ⑤



See page 165 for more information

Connector Solutions

We Are Amphenol

Series Overview

ATM™ SERIES

2 POSITIONS	7.5A	26
3 POSITIONS	7.5A	27
4 POSITIONS	7.5A	28
6 POSITIONS	7.5A	29
8 POSITIONS	7.5A	30
8 POSITIONS- B,C,D KEYS	7.5A	31
12 POSITIONS	7.5A	32
12 POSITIONS-B,C,D KEYS	7.5A	33
STRAIN RELIEF	7.5A	34

AT™ SERIES

2 POSITIONS	13A	46
3 POSITIONS	13A	47
4 POSITIONS	13A	48
6 POSITIONS	13A	49
8 POSITIONS	13A	50
8 POSITIONS- B,C,D	13A	51
12 POSITIONS	13A	52
12 POSITIONS- B,C,D,X	13A	53
13 POSITIONS	13A, 25A	54
18 POSITIONS	13A	55
STRAIN RELIEF	13A	56
REDUCED DIA. SEALS	13A	58
END CAPS	13A	62
END CAPS + REDUCED DIA. SEAL	13A	64
SOLID REAR SEAL	13A	66
LED OPTIONS	13A/12 V	68
COVERS	13A	70
J-1939	13A	71
ADAPTER	13A	72
CUSTOM		74

AT Board | Lock™

2-13 POSITIONS	13A	77
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AT Panel | Mate™

2-13 POSITIONS	13A	81
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ATP™ SERIES

2 POSITIONS	25A	92
4 POSITIONS	25A	93
END CAPS	25A	94
REDUCED DIA. SEALS	25A	95

ATP Panel | Mate™

2,4,13 POSITIONS	16A, 25A	99
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AHD™ SERIES

6 POSITIONS	25A	110
9 POSITIONS	13A	111

Connector Solutions (con't)

ATC™ SERIES

RECEPTACLES	13A	121
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ATHD™ SERIES

CONNECTORS	35-70A	125
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Dura | Mate™

7 POSITIONS	25A,80A	131
14 POSITIONS	13A	135
19 POSITIONS	25A,13A	137
21 POSITIONS	25A,13A	141
23 POSITIONS	13A	143
27 POSITIONS	25A,13A	147
29 POSITIONS	7.5A,13A,25A	149
31 POSITIONS	13A	153
47 POSITIONS	7.5A,13A	155

Hydro | Net™

4 POSITIONS	AT NMEA ADAPTER	165
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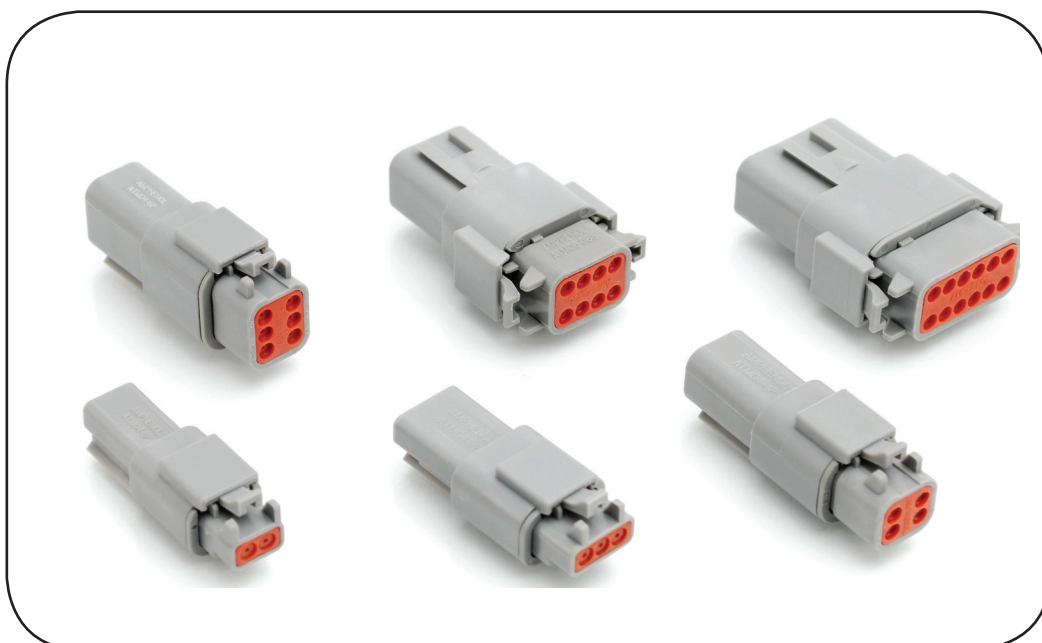
Multi | Mate™

2,4 POSITIONS	13A, 25A	169
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Magna | Mate™

Overview		173
2 POSITIONS	180A	174

ATM | Series™



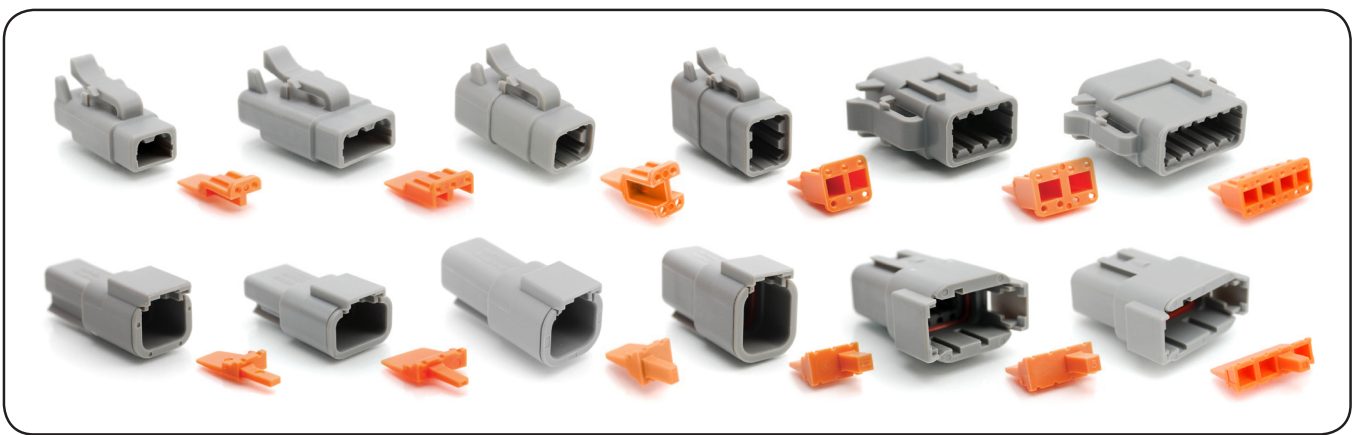
ATM Series™

Overview

ATM Series™ connectors are a high-performance, cost-effective solution specifically designed for smaller AWG applications, while still maintaining the strengths of the AT Series™ product line.

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and environmentally RoHS compliant. The sealing system is comprised of an internal and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

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



Features & Benefits

Current Capacity	Size 20, 7.5A (max)
Wire Range	Size 20 contacts will accept wire ranges of 16 thru 22AWG
Temperature	Operating temperature range: -55°C to +125°C at rated current
Dielectric Value	Meets or exceeds 1500 volts minimum
Drop Test	Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times
Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)
Connector Terminal Retention	When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs.
Connector Retention	A mated connector subjected to a pulling force by the exiting wire bundle at 89 lbs. times the number of contacts to a maximum of 356 lbs. applying load for 30 seconds
Thermal Shock	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector
Insulation Resistance	1000 megohms minimum at 25°C
Mating Cycle Durability	Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident

For custom insert configurations, please consult factory

ATM Series™

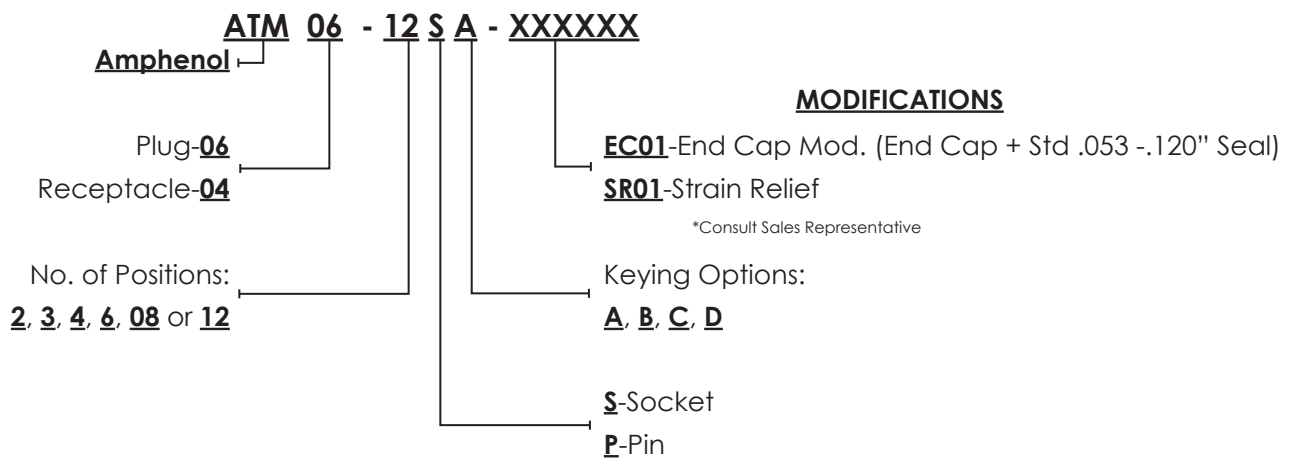
Features & Benefits, cont.

Contact Millivolt Drop	Size 20 (stamped & formed) contacts with 20AWG conductor - 60 mV (solid contact) drop max; 100 mV (stamped & formed contact) drop max at 7.5A test current
Water Immersion	A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water of 1 meter for 4 hours without loss of electronic performance

Product Material

Housings	Thermoplastic
Seals	Silicone Elastomer
Secondary Locks	Thermoplastic
Contacts	Copper Alloy, Nickel Plated, Gold optional

ATM Series™ Part Numbering Sequence



Plug & Receptacle Body Color Modification

A wide range of standard color options are available for all A Series™ product lines. 8 and 12 position plugs and receptacles require special order. For more information, please contact a Sales Representative.

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.