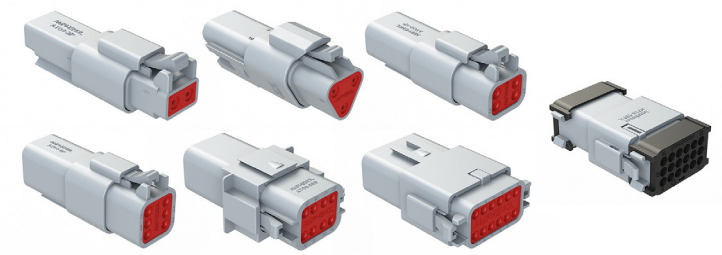
AT ATSeries™



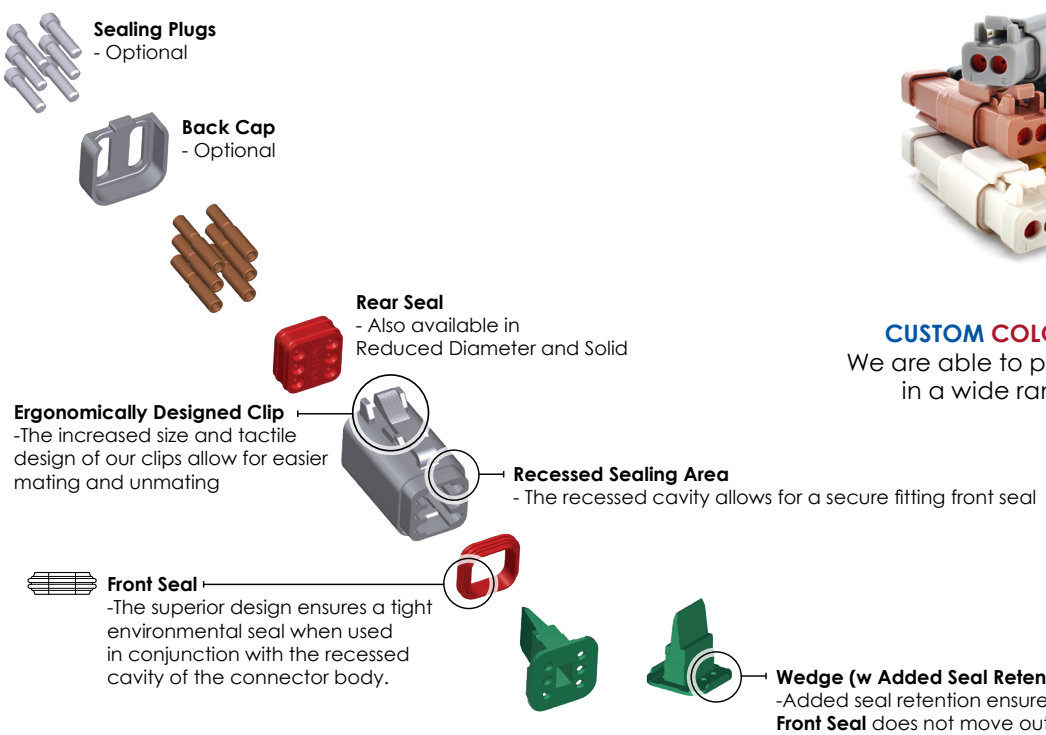
AT vs DT

IP67

Available in 2, 3, 4, 6, 8, 12 and 18 position

Amphenol Sine Systems' AT Series™ connectors are a high-performance, IP67-rated (in mated condition), cost-effective solution with superior environmental seals and seal retention capabilities. The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. All of our AT Series™ connectors have been developed to be completely compatible with all other existing standard products industry-wide.

Applications: Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications



CUSTOM COLORS AVAILABLE
We are able to produce your parts in a wide range of colors.

A ASeries™ Family

Standard products. Custom solutions
Customer Service +1 800 394 7732

AT Series™

Material Specifications	
Plug/Receptacle	Contacts
Shell: Thermoplastic	Pin: Copper Alloy
Wedge: Thermoplastic	Socket: Copper Alloy
Grommet: Silicone Rubber	Finish: Nickel-plated (optional Gold)
Sealing Plugs	
Thermoplastic: All Sizes	

General Specifications	
Dielectric Withstanding Voltage	Insulation Resistance
Current leak less than 2 milliamps at 1500 VAC	1000 megohms minimum 25°C
Current Ratings (Contact current rating at 125°C continuous)	
Size 16: 13A	
Submersion	Fluid Resistance
Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.	Connectors show no damage when exposed to most fluids used in industrial application.
Vibration	Temperature
No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.	Operative at temperatures from -55°C to +125°C. Continuous at rated current.
Contact Retention Contacts withstand a minimum load of:	
25lbs. (89N) for Size 16	
Thermal Cycle	Durability
No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.	No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Contact Resistence				
CONTACT SIZE	WIRE GUAGE AWG(mm^2)	TEST CURRENT (AMPS)	RESISTANCE SOLIDS	RESISTANCE STAMPED & FORMED
16	20 (.50)	7.5	60	100
	18 (.80)	10	60	100
	16 (1.0)	13	60	100
	14 (2.0)	13	60	100

Wire Sealing Range		
CONTACT SIZE	RECOMMENDED WIRE INSULATION O.D.	
	S-SEAL	RD-SEAL
#16	.088 - .145 (2.24 - 3.68)	.053 - .120 (1.35 - 3.05)

DT Series

Material Specifications	
Plug/Receptacle	Contacts
Shell: Thermoplastic	Pin: Copper Alloy
Wedge: Thermoplastic	Socket: Copper Alloy
Grommet: Silicone Rubber	Finish: Nickel-plated (optional Gold)
Sealing Plugs	
Thermoplastic: All Sizes	

General Specifications	
Dielectric Withstanding Voltage	Insulation Resistance
Current leak less than 2 milliamps at 1500 VAC	1000 megohms minimum 25°C
Current Ratings (Contact current rating at 125°C continuous)	
Size 16: 13A	
Submersion	Fluid Resistance
Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.	Connectors show no damage when exposed to most fluids used in industrial application.
Vibration	Temperature
No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.	Operative at temperatures from -55°C to +125°C. Continuous at rated current.
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	18 (.80)	10	60	100
	16 (1.0)	13	60	100
	14 (2.0)	13	60	100

Wire Sealing Range		
CONTACT SIZE	RECOMMENDED WIRE INSULATION O.D.	
	N-SEAL	E-SEAL
#16	.088 - .145 (2.24 - 3.68)	.053 - .120 (1.35 - 3.05)

For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com