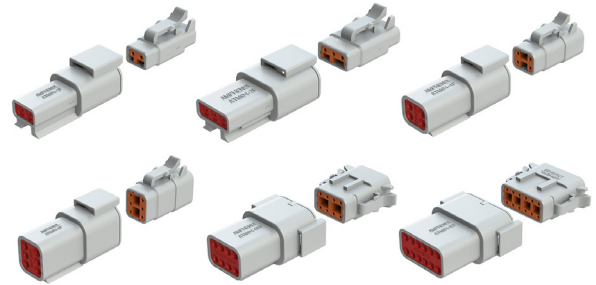


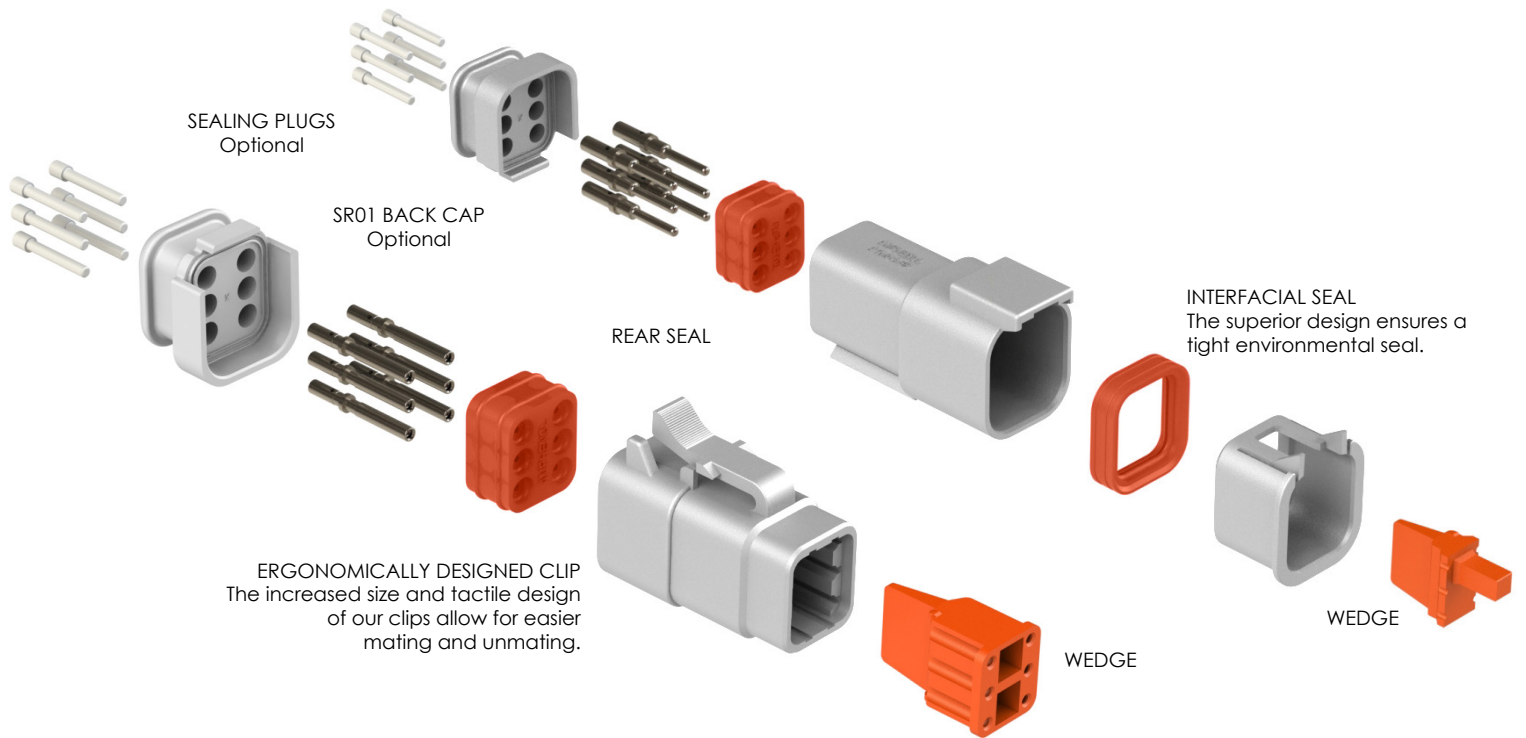


ATM Series™



ATM vs DTM

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.



A Series™ Family



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

ATM Series

DTM Series

Material Specifications					Material Specifications				
Plug/Receptacle		Contacts			Plug/Receptacle		Contacts		
Shell: Thermoplastic		Pin: Copper Alloy			Shell: Thermoplastic		Pin: Copper Alloy		
Wedge: Thermoplastic		Socket: Copper Alloy			Wedge: Thermoplastic		Socket: Copper Alloy		
Grommet: Silicone Rubber		Finish: Nickel-plated (optional Gold)			Grommet: Silicone Rubber		Finish: Nickel-plated (optional Gold)		
Sealing Plugs					Sealing Plugs				
Thermoplastic: All Sizes					Thermoplastic: All Sizes				
General Specifications					General Specifications				
Dielectric Withstanding Voltage		Insulation Resistance			Dielectric Withstanding Voltage		Insulation Resistance		
Current leak less than 2 milliamps at 1500 VAC		1000 megohms minimum 25°C			Current leak less than 2 milliamps at 1500 VAC		1000 megohms minimum 25°C		
Current Ratings (Contact current rating at 125°C continuous)					Current Ratings (Contact current rating at 125°C continuous)				
Size 20: 7.5A					Size 20: 7.5A				
Submersion		Fluid Resistance			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.			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			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.			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:)					Contact Retention (Contacts withstand a minimum load of:)				
20lbs. (89N) for Size 20					20lbs. (89N) for Size 20				
Thermal Cycle		Durability			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.			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 Resistance					Contact Resistance				
Contact Size	AWG(mm ²)	Test Current (Amps)	Resistance Solids	Resistance Stamped & Formed	Contact Size	AWG(mm ²)	Test Current (Amps)	Resistance Solids	Resistance Stamped & Formed
20	20 (.50)	7.5	60	100	20	20 (.50)	7.5	60	100
Wire Sealing Range					Wire Sealing Range				
Contact Size	Recommended Wire Insulation O.D.				Contact Size	Recommended Wire Insulation O.D.			
	N-Seal					N-Seal			
20	.053 - .120 (1.35 - 3.05)				20	.053 - .120 (1.35 - 3.05)			



CUSTOM COLORS AVAILABLE

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