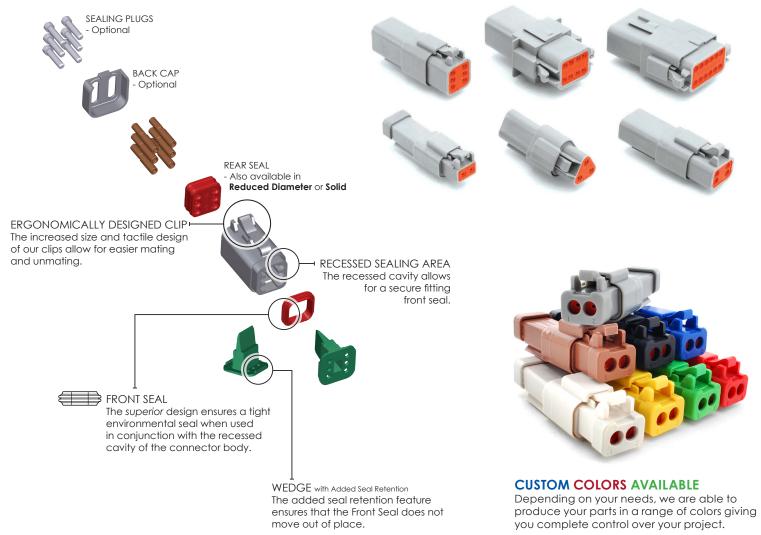


### Amphenol Sine Systems



## AT vs DT

Our AT Series<sup>™</sup> connectors were designed as a high-performance, cost-effective solution to be used within the Heavy Equipment, Agricultural, Automotive, Military, Alternative Energy and other demanding interconnect architectures. Our AT Series<sup>™</sup> connectors contain superior environmental seals, seal retention capabilities and feature Amphenol Sine Systems RockSolid<sup>™</sup> Contact technology. In addition, all of our AT Series<sup>™</sup> connectors have been developed to be completely compatible with all other existing standard products industry-wide.



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### Amphenol Sine Systems

AT Series				DT Series								
Material Specifications						Material Specifications						
Plug/Receptac	Plug/Receptacle			cts		Plug/Receptac	cle		Contacts			
Shell: Thermoplastic		Pin: Copper Alloy			Shell: Thermoplastic			Pin: Copper Alloy				
Wedge: Thermoplastic			Socket: Copper Alloy			Wedge: Thermo	oplastic		Socket: Copper Alloy			
Grommet: Silicone Rubber		Finish: N	vickel-plated (op	otional Gold)	Grommet: Silico	one Rubber Finish: Nickel-plated (		lickel-plated (op	tional Gold)			
Sealing Plugs						Sealing Plugs						
Thermoplastic: All Sizes						Thermoplastic: All Sizes						
General Specifications						General Specifications						
Dielectric Withstanding Voltage			Insulation Resistance			Dielectric Withs	ic Withstanding Voltage Insulation Resistance					
Current leak le 1500 VAC	ess than 2 millia	mps at	1000 megohms minimum 25°C			Current leak less than 2 milliamps at 100 1500 VAC				000 megohms minimum 25°C		
Current Ratings (Contact current rating at 125°C continuous)						Current Ratings (Contact current rating at 125°C continuous)						
Size 16: 13 amps						Size 16: 13 amps						
Submersion			Fluid Resistance			Submersion	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.			withstand imm of water with	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	Vibration			Temperature		
no mechanico after sinusoidal at 10 to 2000 H mutually perpo	or unmating. I or physical da vibration levels o Iz in each of the endicular plane: intinuities longer	amage of 20G's e three s. No	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.						
Contact Retention Contacts withstand a minimum load of:						Contact Retention Contacts withstand a minimum load of:						
25lbs. (89N) for	Size 16			25lbs. (89N) for Size 16								
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 Resistence						Contact Resistence						
CONTACT SIZE	WIRE GUAGE AWG (mm <sup>2</sup> )	TEST CURRENT (AMPS)		resistance solids	RESISTANCE STAMPED & FORMED	CONTACT SIZE	WIRE GUAGE TEST CL AWG(mm <sup>2</sup> ) (AM		URRENT MPS)	resistance solids	RESISTANCE STAMPED & FORMED	
16	20 (.50)	7	.5	60	100	16	20 (.50)	7	.5	60	100	
	18 (.80)	1	0	60	100		18 (.80)	1	0	60	100	
	16 (1.0)	1	3	60	100		16 (1.0)	1	3	60	100	
	14 (2.0)	1	3	60	100		14 (2.0)	1	3	60	100	
Wire Sealing Rc	inge			Wire Sealing Range								
CONTACT	RECOMMENDED WI			RE INSULATION O.D.			RECOMMENDED WIRE INSULATION O.D.					
SIZE	S-SI	EAL		RD-S	SEAL	CONTACT SIZE	N-SEAL			E-SEAL		
#16	.088145	(2.24 - 3	.68)	.053120	(1.35 - 3.05)	#16	.088145 (2.24 - 3.68)			.053120 (1.35 - 3.05)		

#### For more information, contact:

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