

Amphenol Sine Systems **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 pin options, our ATP Series™ Connectors contain superior environmental seals, seal retention capabilities and are designed for use with 10-14 AWG with size 12 contacts handling up to 25 amps. In addition, all of our AT Series™ connectors have been developed to be completely compatible with all other existing standard products industry-wide.







Sine Systems P/N	Deutsch P/N	Part Description	
ATP06-2S	DTP06-2S	Plug, 2-Way	
ATP06-2S-BLK	DTP06-2S-E004	Plug, 2-Way, Black	
ATP06-2S-EC01	DTP06-2S-E003	Plug, 2-Way, w/ End Cap	
ATP04-4P-EC01	DTP04-4P-E003	Plug, 4-Way, W End Cap	
ATP04-4P-RD01	DTP04-4P-C015	Plug, 4-Way, w/ Reduced Seal	
AWP-2S	WP-2S	Wedgelock, Plug	
AWP-4S	WP-4S	Wedgelock, Plug	
AT62-12-0144	1062-12-0144	Socket Contact, #12 S&F Gold Plate (Reel)	
AT62-12-0166	1062-12-0166	Socket Contact, #12 S&F Nickel (Reel)	
AT62-203-12141	0462-203-12141	Socket Contact, #12 Nickel	
AT62-210-1231	0462-210-1231	Socket Contact, #12 Gold Plate	
ATP04-2P	DTP04-2P	Recpt, 2-Way	
ATP04-2P-BLK	DTP04-2P-E004	Recpt, 2-Way, Black	
ATP04-2P-EC01	DTP04-2P-E003	Recpt, 2-Way, w/ End Cap	
ATP04-4P	DTP04-4P	Recept,4-Way	
ATP04-4P-BLK	DTP04-4P-E004	Recept,4-Way, Black	
ATP06-4S	DTP06-4S	Recept,4-Way	
ATP06-4S-BLK	DTP06-4S-E004	Recept,4-Way, Black	
ATP06-4S-EC01	DTP06-4S-E003	Recept,4-Way, w/ End Cap	
ATP06-4S-RD01	DTP06-4S-C015	Recept,4-Way, w/ Reduced Seal	
ATP06-4S-RD01BK	DTP06-4S-CE02	Recept,4-Way, w/ Reduced Seal Black	
AWP-2P	WP-2P	Wedgelock, Receptacle	
AWP-4P	WP-4P	Wedgelock, Receptacle	
AT60-12-0144	1060-12-0144	Pin Contact, #12 S&F Gold Plate (Reel)	
AT60-12-0166	1060-12-0166	Pin Contact, #12 S&F Nickel (Reel)	
AT60-204-12141	0460-204-12141	Pin Contact, #12 Nickel	
AT60-220-1231	0460-220-1231	Pin Contact, #12 Gold Plate	

ATP SERIES™ PART COMPATIBILITY

Amphenol

ATP SERIES™ SPECIFICATIONS

Durability	No electrical/mechanical defects after 100 cycles of mating/unmating.
Corrosion Resistance	No evidence of corrosion after 48 hours of salt spray per MIL-STD1344, method 1001.
Contact Current Rating	#12 size contacts rated at 25 amps continuous at +125°C. Current is fully rated without derating curve.
Operating Temperature	-55°C to +125°C
Submersion	A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water 1 meter deep for 4 hours without loss of electronic performance.
Vibration	Continued continuity without deg- radation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)

Don Hunsucker, Program Manager 1.800.394.7732 Ext.8638

donh@sineco.com



ATP SERIES[™] MATERIAL SPECIFICATIONS

Plug/Receptacle	Contacts	
Shell: Thermoplastic	Pin: Copper Alloy	
Wedge: Thermoplastic	Socket: Copper Alloy	
Seals: Silicone Elastomer	Finish: Nickel-plated (optional Gold)	

ATP SERIES™ 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 12 contact: 25 amps				
Corrosion Resistance				
Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL - STD 1344, method 1001.				
Submersion	Fluid Resistance			
IP67. 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			
Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.	Operative at temperatures from -55°C to +125°C. Continuous at rated current.			
Contact Retention Contacts withstand a minimum load of:				
70lbs. for Size 12 contacts.				
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.			
Physical Shock	Contact Millivolt Drop			
No unlocking, unmating or other unsat- isfactory 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".	No. 16 contacts - 60 millivolt drop using 16 AWG wire (less drop through wire). Test current 13 amps.			

CONTACT RESISTANCE

CONTACT SIZE	WIRE GUAGE AWG(mm ²)	TEST CURRENT (AMPS)	RESISTANCE	RESISTANCE STAMPED & FORMED
#12	12	25	60 µV	100 µV

WIRE SEALING RANGE

CONTACT SIZE	RECOMMENDED WIRE INSULATION O.D.		
CONTACT SIZE	STANDARD (S-Seal)	THIN WALL (RD-Seal)	
#12	.134170 (3.40 - 4.32)	.097158 (2.46 - 4.01)	

DTP Series

DTP MATERIAL SPECIFICATIONS

VS.

Plug/Receptacle	Contacts	
Shell: Thermoplastic	Pin: Copper Alloy	
Wedge: Thermoplastic	Socket: Copper Alloy	
Seals: Silicone Elastomer	Finish: Nickel-plated (optional Gold)	

DTP 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 12 contact: 25 amps			
Corrosion Resistance			
Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL - STD 1344, method 1001.			
Submersion	Fluid Resistance		
IP67. 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		
Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.	Operative at temperatures from -55°C to +125°C. Continuous at rated current.		
Contact Retention Contacts withstand a minimum load of:			
70lbs. for Size 12 contacts.			
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.		
Physical Shock	Contact Millivolt Drop		
No unlocking, unmating or other unsat- isfactory 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".	No. 16 contacts - 60 millivolt drop using 16 AWG wire (less drop through wire). Test current 13 amps.		

CONTACT RESISTANCE

CONTACT SIZE	WIRE GUAGE AWG(mm ²)	TEST CURRENT (AMPS)	RESISTANCE	RESISTANCE STAMPED & FORMED
#12	12	25	60 µV	100 µV

WIRE SEALING RANGE

CONTACT SIZE	RECOMMENDED WIRE INSULATION O.D.		
CONTACT SIZE	STANDARD	THIN WALL (E-Seal)	
#12	.134170 (3.40 - 4.32)	.097158 (2.46 - 4.01)	

© 2011 Amphenol Sine Systems Corporation. Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.

www.sineco.com



Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

- > Sales :
 - Direct +86 (21) 6401-6692
 - Email amall@ameya360.com
 - QQ 800077892
 - Skype ameyasales1 ameyasales2

> Customer Service :

Email service@ameya360.com

> Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com