

MATERIAL:

SHELL: AL ALLOY, ANODIZE

INSERT AND RETAINING RING: THERMOPLASTIC

SEAL: SILICONE RUBBER

2. MODIFICATIONS: THREADED HOUSING;

REDUCED DIA. WIRE SEAL FOR SIZE 12 & SIZE 16;

- 3. SPECIFICATIONS:
  - 3.1 OPERATING TEMPERATURE: -55°C TO +125°C.
  - 3.2 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
  - 3.3 INSULATION RESISTANCE: 1000 MEGOHM MIN @ 25°C.
  - 3.4 MOISTURE RESISTANCE: IP68(IM OF WATER FOR A PERIOD O

IP68(IM OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION); IP69K(MATED CONDITION).

- 3.5 MATING CYCLE DURABILITY: 100 CYCLES
- 3.6 RoHS COMPLIANT
- 4. MATING PART: AHDBM06-24-91S\* (\* = SEAL TYPE)
- 5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

6 CONTACT SIZE AND WIRE RANGE:
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CONTACT	MIN. INSUL	MAX. INSUL	TYPICAL WIRE	CURRENT
SIZE	O.D.	O.D.	RANGE	RATING
8	6.50mm (.256in)	7.42mm (.292in)	6AWG (16.0-13.0mm²)	60AMPS
12	2.46mm (.097in)	4.01mm (.158in)	10-14AWG (6.0-2.0mm²)	25AMPS
16	1.35mm (.053in)	3.05mm (.120in)	14-20AWG (2.0-0.5mm²)	13AMPS

Ø43.08±0.12

41.45 <sup>+0.2</sup>

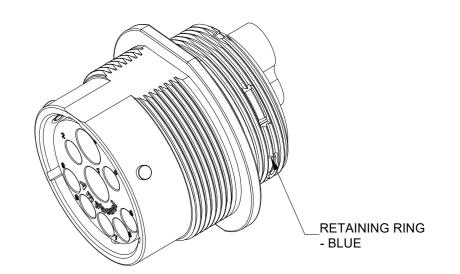
RECOMMENDED PANEL

RECOMMENDED PANEL MOUNTING HOLE

RECOMMENDED PANEL THICKNESS:1.6 TO 4.7MM

NEXT ASS'Y:

7. MEET THE DIMENSION OF IMPLEMENT BUS BREAKAWAY CONNECTOR OF ISO 11783-2.



AHDBM04-24-91PF QUANTITY PART NUMBER		-24-91F	PR16			
		R DESCRIPTIO		DESCRIPTION	M	
			MA	TERI	ALS LIST	$\neg$
UNLESS OTHERWISE SPECIFIED SIGNATURES DATE						
1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ±0.30   Fractions ±1/64   Angles ±1° 3 PL DEC ±0.08   Fractions ±1/64   Angles ±1°		DRAWN:	IAN	17/JAN/22	Amphenol	
				17/JAN/22	Sine Systems - www.amphenol-sine.com	
3) Note reference	<b>-</b> 🗴	ENGINEER:			44724 Morley Drive	
MATERIAL SPECIFICA	TIONS:	APPROVAL:	TOMMY	18/JAN/22	Clinton Township, MI 48036	$\dashv$
MATERIAL OF EUR TOATIONS.		CUSTOMER:			09POS,RECEPTACLE,PIN,24SZ,RD SEAL,	
PROCESS SPECIFICA	TIONS:	INFORMATIO		ED FOR GN FEATURES, FORMANCE DATA	BREAK AWAY, DURAMATE AHDBM	ON

INFORMATION ONLY DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.

SIZE

TYPE

AHDBM04-24-91PR16

A2

SCALE: NONE

DURAMATE

SHEET 1 OF 1

AHDBM04-24-91PR16 REV

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## **AT Series™** - Contact Size 16 Options

Machined Contacts, Sockets & Pins						
Part Number	Description	Size	AWG	Туре		
AT60-215-1631	Male Contact - Pin, Gold-plated	16	14	Machined		
AT62-209-1631	Female Contact - Socket, Gold-plated	16	14	Machined		
AT60-215-16141	Male Contact - Pin, Nickel-plated	16	14	Machined		
AT62-209-16141	Female Contact - Socket, Nickel-plated	16	14	Machined		
AT60-202-1631	Male Contact - Pin, Gold-plated	16	16-20	Machined		
AT62-201-1631	Female Contact - Socket, Gold-plated	16	16-20	Machined		
AT60-202-16141	Male Contact - Pin, Nickel-plated	16	16-20	Machined		
AT62-201-16141	Female Contact - Socket, Nickel-plated	16	16-20	Machined		
AT60-202-1631-22	Male Contact - Pin, Gold-plated	16	22-24	Machined		
AT62-201-1631-22	Female Contact - Socket, Gold-plated	16	22-24	Machined		
AT60-202-16141-22	Male Contact - Pin, Nickel-plated	16	22-24	Machined		
AT62-201-16141-22	Female Contact - Socket, Nickel-plated	16	22-24	Machined		

Tooling - Machined Contacts					
Part	Part Number	Description			
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only)			
33	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)			

	Contact Removal Tools					
Part	Part Number	Description				
	ATRT-100	Used for removal of contacts for A Series™ products				
	AT11-310-1605	Contact Removal Tool, Plastic, Size 16				
A114017 Sealing Plug, Size 16, White		Sealing Plug, Size 16, White				

Stamped & Formed Contacts, Sockets & Pins						
Part Number	Description	Size	AWG	Туре		
AT60-14-0144	Male Contact - Pin, Gold-plated	16	14-16	Stamped & Formed		
AT62-14-0144	Female Contact - Socket, Gold-plated	16	14-16	Stamped & Formed		
AT60-14-0122	Male Contact - Pin, Nickel-plated	16	14-16	Stamped & Formed		
AT62-14-0122	Female Contact - Socket, Nickel-plated	16	14-16	Stamped & Formed		
AT60-16-0144	Male Contact - Pin, Gold-plated	16	16-18	Stamped & Formed		
AT62-16-0144	Female Contact - Socket, Gold-plated	16	16-18	Stamped & Formed		
AT60-16-0122	Male Contact - Pin, Nickel-plated	16	16-18	Stamped & Formed		
AT62-16-0122	Female Contact - Socket, Nickel-plated	16	16-18	Stamped & Formed		
AT60-16-0644	Male Contact - Pin, Gold-plated	16	18-20	Stamped & Formed		
AT62-16-0644	Female Contact - Socket, Gold-plated	16	18-20	Stamped & Formed		
AT60-16-0622	Male Contact - Pin, Nickel-plated	16	18-20	Stamped & Formed		
AT62-16-0622	Female Contact - Socket, Nickel-plated	16	18-20	Stamped & Formed		
AT60-16-0844	Male Contact - Pin, Gold-plated	16	20-22	Stamped & Formed		
AT62-16-0844	Female Contact - Socket, Gold-plated	16	20-22	Stamped & Formed		
AT60-16-0822	Male Contact - Pin, Nickel-plated	16	20-22	Stamped & Formed		
AT62-16-0822	Female Contact - Socket, Nickel-plated	16	20-22	Stamped & Formed		

	Tooling - Stamped & Formed Contacts						
Part Number Description							
	MFX-3950	Crimp Die - Size 16, 18-20AWG (S&F contacts only)					
	MFX-3953	Crimp Die - Size 16, 16-18AWG (S&F contacts only)					
	MFX-3975 Crimp Die - Size 16, 14-16AWG (S&F contacts only)						
	MFX-3990	Crimp Die - Size 16, 20-22AWG (S&F contacts only)					
	ATT-16-00	Hand Crimp Tool - Size 16, 14-16AWG (S&F contacts only)					
	ATT-16-01	Hand Crimp Tool - Size 16, 18-20AWG (S&F contacts only)					
	ATT-1612-03	Hand Crimp Tool - Size 16, 20-22AWG (S&F contacts only)					

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## MagnaMate™ ATHP - DuraMate™ AHDP - DuraMate™ AHDM Series - Contact Size 12 Options

Machined Contacts, Sockets & Pins						
Part Number	Description	Size	AWG	Туре		
AT60-204-12141-10	Male Contact - Pin, Nickel-plated	12	10-12	Machined		
AT62-203-12141-10	Female Contact - Socket, Nickel-plated	12	10-12	Machined		
AT60-220-1231	Male Contact - Pin, Gold-plated	12	12-14	Machined		
AT62-210-1231	Female Contact - Socket, Gold-plated	12	12-14	Machined		
AT60-204-12141	Male Contact - Pin, Nickel-plated	12	12-14	Machined		
AT62-203-12141	Female Contact - Socket, Nickel-plated	12	12-14	Machined		

DiagnosticGrade™ Machined Contacts, Sockets & Pins • Smaller AWG for Diagnostic Applications • Gold-plated • Increased Mating Cycles • Cost-effective						
Part Number	Description	Size	AWG	Type		
65-54749	Male Contact - DiagnosticGrade™, Pin, Gold-plated	12	20	Machined		
AT62-210-1231-1820	Female Contact - DiagnosticGrade™, Socket, Gold-plated	12	20	Machined		

Tooling - Machined Contacts				
Part	Part Number	Description		
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only)		
33	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)		

Contact Removal Tools				
Part	Part Number	Description		
	AT11-337-1205	Contact Removal Tool, Plastic, Size 12		
	A114017	Sealing Plug, Size 12, White		

Stamped & Formed Contacts, Sockets & Pins					
Part Number	Description		AWG	Туре	
AT60-12-0244	Male Contact - Pin, Gold-plated	12	10-12	Stamped & Formed	
AT62-12-0244	Female Contact - Socket, Gold-plated	12	10-12	Stamped & Formed	
AT60-12-0222	Male Contact - Pin, Nickel-plated	12	10-12	Stamped & Formed	
AT62-12-0222	Female Contact - Socket, Nickel-plated	12	10-12	Stamped & Formed	
AT60-12-0144	Male Contact - Pin, Gold-plated	12	12-14	Stamped & Formed	
AT62-12-0144	Female Contact - Socket, Gold-plated	12	12-14	Stamped & Formed	
AT60-12-0166	Male Contact - Pin, Nickel-plated	12	12-14	Stamped & Formed	
AT62-12-0166	Female Contact - Socket, Nickel-plated	12	12-14	Stamped & Formed	

Tooling - Stamped & Formed Contacts				
Part	Part Number	Description		
	MFX-3973	Crimp Die - Size 12 (S&F contacts only)		
	MFX-3985	Crimp Die - Size 12 (S&F contacts only) 10-12AWG -02XX Series		
	ATT-12-00	Hand Crimp Tool - Size 12, 12AWG (S&F contacts only)		
	ATT-12-01	Hand Crimp Tool - Size 12, 10AWG (S&F contacts only)		

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## **ATHD Series™** - Contact Size 8 Options

Machined Contacts, Pins and Sockets					
Part Number	Description	Size	AWG	Туре	Amps
AT60-204-08141	Male Contact - Pin, Copper Alloy, Nickel-Plated	8	8-10	Machined	60A
AT62-203-08141	Female Contact - Socket, Copper Alloy, Nickel-Plated	8	8-10	Machined	60A
AT60-204-08141-16	Male Contact - Pin, Copper Alloy, Nickel-Plated	8	6	Machined	60A
AT62-203-08141-16	Female Contact - Socket, Copper Alloy, Nickel-Plated	8	6	Machined	60A

Tooling - Machined Contacts				
Part	Part Number	Description		
	WA23	Heavy Duty Pneumatic Crimp Tool -Uses Universal Positioner Part No. WA23-101DA and Crimp Locator MFX-3961		
	WA23-2	Die Assembly -for CA-5E12 Heavy Duty Pneumatic Crimp Tool, Size 8		
	WA23-3	Die Assembly -for CA-5E12 Heavy Duty Pneumatic Crimp Tool, Size 6		
mas	WA23-10	Contact Locator, Size 6 and Size 8		
THE THE THE	96-978-22	Crimper and Dies -for Size 10mm²-185mm² Wires		

Contact Removal Tools			
Part	Part Number	Description	
	AT114008	Contact Removal Tool, Plastic, Size 8, 8-10AWG	