

## NOTES: UNLESS OTHERWISE SPECIFIED

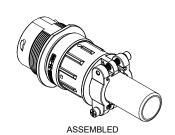
RECEPTACLE MATERIAL:
 SHELL: ZINC ALLOY, NICKEL PLATED
 INSERT AND RETAINING RING: THERMOPLASTIC
 SEAL: SILICONE RUBBER

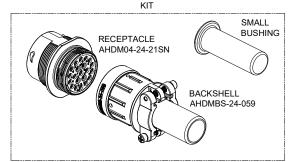
2. BACKSHELL MATERIAL:

SHELL: ALUMINIUM ALLOY, NICKEL PLATED; LATCH SEGMENT: ALUMINIUM ALLOY, NICKEL PLATED; SCREW AND LOCK WASHER: STAINLESS STEEL; BUSHING: EPDM.

## 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: IP67 & IP69K (MATED CONDITION).
- 3.5 MATING CYCLE DURABILITY: 100 CYCLES
- 3.6 RoHS COMPLIANT
- 4. APPLY TO CABLE OD SIZE: Ø11.20-Ø24.08 . CAN BE USED:
  - 4.1. WITH LARGE AND SMALL BUSHINGS IN PLACE.
- 4.2. WITH ONLY LARGE BUSHING IN PLACE.
- 4.3. WITH BOTH BUSHINGS REMOVED.
- 5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.
- 6. SEE SPECIFIC RECEPTACLE DRAWING FOR:
  - 6.1 CONTACT SIZE AND WIRE RANGE.
  - 6.2 RETAINING RING COLOR.
- 6.3 MATING PART(S).
- 6.4 CONTACT LAYOUT AND ALL OTHER SPECIFICATIONS.





AHDM04-24-21SN-059 HD34-24-21SN-059 PART NUMBER DESCRIPTION ITEM QUANTITY MATERIALS LIST UNLESS OTHERWISE SPECIFIED SIGNATURES DATE Amphenol J. HEAD 16MAR2020 Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MJ 48036 MATERIAI SPECIFICATIONS CUSTOMER: DURAMATE AHDM RECEPT, SIZE 24, WD THD, THIS DRAWING IS SUPPLED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DA'S SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHOUS THE AMPHENOL NO PROPER TO PROPER TO PROPER THE PROPERTO OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. KIT W/ CABLE CLAMP BACKSHELL PROCESS SPECIFICATIONS B C-AHDM04-24-21SN-059 NEXT ASS'Y CALE: NONE SHEET 1 OF 1

ло4-24-21SN-059 REV: A1 SH

DWG NO:

KIT, RECPT AND BACKSHELL, SZ 24

7: A1 SH: 1 OF:

## **A Series™** - Contact Size 12 Options (Works with: AHD-6, ATP, ATHD, DuraMate and PanelMate Series)

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	

<sup>\*</sup>Works with ATP Series only

	DiagnosticGrade™ Machined Contacts, Sockets & Pins  • Smaller AWG for Diagnostic Applications • Gold-plated • Increased Mating Cycles • Cost-effective					
Part Number Description Size A					Туре	
Γ	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 Number	Description			
AUTK-12	Hand Crimp Tool, Size 12			
AUTK-100	Universal Heavy Duty Contact Crimping Tool Kit, Size 12/16/20			
CA-5D12	Universal Hand Crimp Tool, Size 12/16/20			
CA-5E12	Pneumatic Crimp Tool, Size 12/16/20			
M300-25A	Hand Crimp Tool used with Crimp Locator MFX-3966, Size 12, 10AWG			
MFX-3966	Contact Locator used with Hand Crimp Tool M300-25A, Size 12, 10AWG			

Contact Removal Tools (For both Machined or Stamped & Formed Contacts)				
Part Number Description				
ATRT-100	Contact and Wedgelock Extraction Tool			
AT11-337-1205 Contact Removal Tool, Plastic, Size 12				

Sealing Plugs (For both Machined or Stamped & Formed Contacts)			
Part Number	Description		
A114017	Sealing Plug, Size 12, White		

Stamped & Formed Contacts, Sockets & Pins					
Part Number	Description	Size	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 Number	Description		
MFX-3973	Crimp Die - Size 12		
MFX-3985	Crimp Die - Svize 12, 10-12AWG -02XX Series		
ATT-12-00	Hand Crimp Tool - Size 12, 12AWG		
ATT-12-01	Hand Crimp Tool - Size 12, 10AWG		

## A Series™ - Contact Size 16 Options (Works with: AT, ATV, AHD-9, ARC, DuraMate and PanelMate Series)

	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 Number	Description		
AUTK-16	Hand Crimp Tool, Size 16		
AUTK-100	Universal Heavy Duty Contact Crimping Tool Kit, Size 12/16/20		
CA-5D12	Universal Hand Crimp Tool, Size 12/16/20		
CA-5E12	Pneumatic Crimp Tool, Size 12/16/20		

Contact Removal Tools (For both Machined or Stamped & Formed Contacts)			
Part Number	Description		
ATRT-100	Contact and Wedgelock Extraction Tool		
AT11-310-1605	Contact Removal Tool, Plastic, Size 16		

Sealing Plugs (For both Machined or Stamped & Formed Contacts)				
Part Number	Description			
A114017	Sealing Plug, Size 16, White			
A114017-SR	Sealing Plug, Size 16, SR01 Series, Black			
AT13-217-1605	Locking Sealing Plug, Size 16, Grey			
AT13-217-1605-SR	Locking Sealing Plug, Size 16, SR01 Series, Red			

Stamped & Formed Contacts, Sockets & Pins						
Part Number	Description	Size	AWG	Туре		
AT60-14-0122	Male Contact - Pin, Nickel-plated	16	14-18	Stamped & Formed		
AT62-14-0122	Female Contact - Socket, Nickel-plated	16	14-18	Stamped & Formed		
AT60-14-0144	Male Contact - Pin, Gold-plated	16	14-18	Stamped & Formed		
AT62-14-0144	Female Contact - Socket, Gold-plated	16	14-18	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		
AT60-16-0144	Male Contact - Pin, Gold-plated	16	16-18	Stamped & Formed		
AT62-16-0144	Female Contact - Socket, Gold-plated	16	16-18	Stamped & Formed		
AT60-16-0622	Male Contact - Pin, Nickel-plated	16	16-20	Stamped & Formed		
AT62-16-0622	Female Contact - Socket, Nickel-plated	16	16-20	Stamped & Formed		
AT60-16-0644	Male Contact - Pin, Gold-plated	16	16-20	Stamped & Formed		
AT62-16-0644	Female Contact - Socket, Gold-plated	16	16-20	Stamped & Formed		
AT60-16-0677	Male Contact - Pin, Tin-plated	16	16-20	Stamped & Formed		
AT62-16-0677	Female Contact - Socket, Tin-plated	16	16-20	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		
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		

Tooling - Stamped & Formed Contacts	
MFX-3950	Crimp Die - Size 16, 18-20AWG
MFX-3953	Crimp Die - Size 16, 16-18AWG
MFX-3975	Crimp Die - Size 16, 14-16AWG
MFX-3990	Crimp Die - Size 16, 20-22AWG
ATT-16-00	Hand Crimp Tool - Size 16, 14-16AWG
ATT-16-01	Hand Crimp Tool - Size 16, 18-20AWG
ATT-1612-03	Hand Crimp Tool - Size 16, 20-22AWG