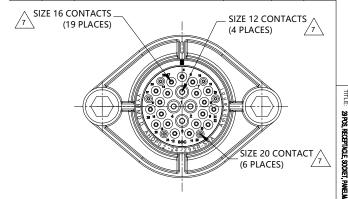


REVISIONS REV ECO DESCRIPTION DATE BY APPR A1 RELEASE NEW DRAWING 12/JUN/20 LOUIE TOMMY



2. MODIFICATIONS: SMOOTH RING ADAPTER (SRA); REDUCED DIA. WIRE SEAL; SEALED PANEL MOUNT

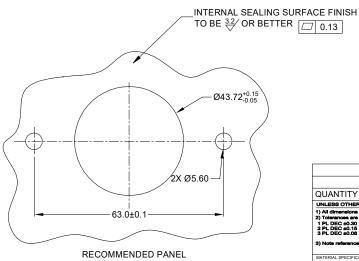
3. SPECIFICATIONS:

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. MATING PART: AHDP06-24-29P* (* = SEAL TYPE)
- 5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.
- 6. RECEPTACLE IS SUPPLIED WITH DUST CAP (NOT SHOW)

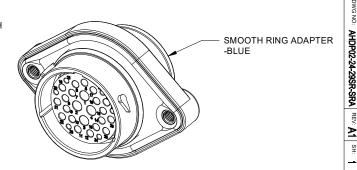
CONTACT SIZE AND WIRE RANGE:

<u> </u>	TONTACT SIZE AND WIRE RANGE.							
	CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE	CURRENT RATING			
	20	1.02 mm (.040 in)			7.5 AMPS			
	16	1.35 mm (.053 in)	2.62 mm (.103 in)	14-20 AWG (2.0-0.5mm²)	13 AMPS			
	12	2.46 mm (.097 in)	4.01 mm (.158 in)	10-14 AWG (6.0-2.0mm²)	25 AMPS			





RECOMMENDED PANEL THICKNESS:1.6 TO 4.7MM



PART NUMBER MATERIALS LIST QUANTITY UNLESS OTHERWISE SPECIFIED SIGNATURES DATE LOUIE 12/JUN/20 ORION 13/JUN/20 TOMMY 14/JUN/20 MATERIAL SPECIFICATIONS THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHT OF REPRODUCTION ARE IMPLIED. ALL PROCESS SPECIFICATIONS

NEXT ASS'Y

ISIONS ARE SUBJECT TO NORMAL

MANUFACTURING VARIATIONS

AHDP02-24-29SR-SRA

Ampheno

ITEM

DESCRIPTION

44724 Morley Drive Clinton Township, MI 48036

29 POS. RECEPTACLE, SOCKET, PANELMATE AHDP SIZE 24, RD SEAL, SRA

В DURAMATE SHEET 1 OF 1 NONE

A Series™ - Contact Size 20 Options (Works with: ATM, DuraMate and PanelMate Series)

Machined Contacts, Sockets & Pins					
Part Number	Description	Size	AWG	Туре	
AT60-010-2031	Male Contact - Pin, Gold-plated	20	16-18	Machined	
AT62-005-20141	Female Contact - Socket, Gold-plated	20	16-18	Machined	
AT60-010-20141	Male Contact - Pin, Nickel-plated	20	16-18	Machined	
AT62-005-2031	Female Contact - Socket, Nickel-plated	20	16-18	Machined	
AT60-202-2031	Male Contact - Pin, Gold-plated	20	20-22	Machined	
AT62-201-2031	Female Contact - Socket, Gold-plated	20	20-22	Machined	
AT60-202-20141	Male Contact - Pin, Nickel-plated	20	20-22	Machined	
AT62-201-20141	Female Contact - Socket, Nickel-plated	20	20-22	Machined	

Tooling - Machined Contacts				
Part Number	Description			
AUTK-20	Hand Crimp Tool, Size 20			
AUTK-100	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			

Stamped & Formed Contacts, Sockets & Pins						
Part Number	Description	Size	AWG	Туре		
AT60-20-0144	Male Contact - Pin, Gold-plated	20	16-22	Stamped & Formed		
AT62-20-0144	Female Contact - Socket, Gold-plated	20	16-22	Stamped & Formed		
AT60-20-0244	Male Contact - Socket, Gold-plated	20	16-22	Stamped & Formed		
AT62-20-0244	Female Contact - Socket, Gold-plated	20	16-22	Stamped & Formed		
AT60-20-0122	Male Contact - Pin, Nickel-plated	20	16-22	Stamped & Formed		
AT62-20-0122	Female Contact - Socket, Nickel-plated	20	16-22	Stamped & Formed		
AT60-20-0222	Male Contact - Socket, Nickel-plated	20	16-22	Stamped & Formed		
AT62-20-0222	Female Contact - Socket, Nickel-plated	20	16-22	Stamped & Formed		
AT60-20-0277	Male Contact - Socket, Tin-plated	20	16-22	Stamped & Formed		
AT62-20-0277	Female Contact - Socket, Tin-plated	20	16-22	Stamped & Formed		
AT60-20-0422	Male Contact - Socket, Nickel-plated	20	20-22	Stamped & Formed		
AT62-20-0444	Female Contact - Socket, Gold-plated	20	20-22	Stamped & Formed		

Tooling - Stamped & Formed Contacts				
MFX-3974	Crimp Die - Size 20			
MFX-3976	Crimp Die - Size 20 (20-22AWG -04XX Series)			
MFX-3978	Crimp Die - Size 20 (20-22AWG -02XX Series)			
ATT-20-00	Hand Crimp Tool - Size 20 (20AWG)			

	Contact Removal Tools (For both Machined or Stamped & Formed Contacts)			
Part Number Description				
ATRT-100	Contact and Wedgelock Extraction Tool			
AT11-240-2005	Contact Removal Tool, Plastic, Size 20			

Sealing Plugs (For both Machined or Stamped & Formed Contacts)				
Part Number Description				
AT13-204-2005	Sealing Plug, Size 20, White			
AT13-204-2005-SR Sealing Plug, Size 20, SR01 Series, Black				
ATM13-217-2005	Locking Sealing Plug, Size 20, Grey			
ATM13-217-2005-SR	Locking Sealing Plug, Size 20, SR01 Series, Blue			

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	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						
Description	Size	AWG	Туре			
Male Contact - Pin, Nickel-plated	16	14-18	Stamped & Formed			
Female Contact - Socket, Nickel-plated	16	14-18	Stamped & Formed			
Male Contact - Pin, Gold-plated	16	14-18	Stamped & Formed			
Female Contact - Socket, Gold-plated	16	14-18	Stamped & Formed			
Male Contact - Pin, Nickel-plated	16	16-18	Stamped & Formed			
Female Contact - Socket, Nickel-plated	16	16-18	Stamped & Formed			
Male Contact - Pin, Gold-plated	16	16-18	Stamped & Formed			
Female Contact - Socket, Gold-plated	16	16-18	Stamped & Formed			
Male Contact - Pin, Nickel-plated	16	16-20	Stamped & Formed			
Female Contact - Socket, Nickel-plated	16	16-20	Stamped & Formed			
Male Contact - Pin, Gold-plated	16	16-20	Stamped & Formed			
Female Contact - Socket, Gold-plated	16	16-20	Stamped & Formed			
Male Contact - Pin, Tin-plated	16	16-20	Stamped & Formed			
Female Contact - Socket, Tin-plated	16	16-20	Stamped & Formed			
Male Contact - Pin, Nickel-plated	16	20-22	Stamped & Formed			
Female Contact - Socket, Nickel-plated	16	20-22	Stamped & Formed			
Male Contact - Pin, Gold-plated	16	20-22	Stamped & Formed			
Female Contact - Socket, Gold-plated	16	20-22	Stamped & Formed			
	Description Male Contact - Pin, Nickel-plated Female Contact - Socket, Nickel-plated Male Contact - Pin, Gold-plated Female Contact - Socket, Gold-plated Male Contact - Pin, Nickel-plated Male Contact - Pin, Nickel-plated Male Contact - Socket, Nickel-plated Male Contact - Socket, Nickel-plated Male Contact - Socket, Gold-plated Female Contact - Socket, Gold-plated Male Contact - Pin, Nickel-plated Female Contact - Socket, Nickel-plated Male Contact - Pin, Gold-plated Female Contact - Socket, Gold-plated Male Contact - Pin, Tin-plated Female Contact - Pin, Tin-plated Male Contact - Pin, Nickel-plated Male Contact - Pin, Gold-plated	DescriptionSizeMale Contact - Pin, Nickel-plated16Female Contact - Socket, Nickel-plated16Male Contact - Pin, Gold-plated16Female Contact - Socket, Gold-plated16Male Contact - Pin, Nickel-plated16Female Contact - Pin, Nickel-plated16Male Contact - Pin, Gold-plated16Female Contact - Pin, Gold-plated16Male Contact - Pin, Mickel-plated16Female Contact - Socket, Gold-plated16Female Contact - Pin, Nickel-plated16Male Contact - Pin, Gold-plated16Female Contact - Socket, Gold-plated16Male Contact - Pin, Tin-plated16Female Contact - Pin, Tin-plated16Male Contact - Pin, Nickel-plated16Male Contact - Pin, Nickel-plated16Female Contact - Socket, Nickel-plated16Male Contact - Pin, Nickel-plated16Male Contact - Pin, Nickel-plated16Male Contact - Pin, Gold-plated16	DescriptionSizeAWGMale Contact - Pin, Nickel-plated1614-18Female Contact - Socket, Nickel-plated1614-18Male Contact - Pin, Gold-plated1614-18Female Contact - Socket, Gold-plated1614-18Male Contact - Pin, Nickel-plated1616-18Female Contact - Socket, Nickel-plated1616-18Male Contact - Pin, Gold-plated1616-18Female Contact - Socket, Gold-plated1616-18Male Contact - Pin, Nickel-plated1616-20Female Contact - Socket, Nickel-plated1616-20Male Contact - Pin, Gold-plated1616-20Female Contact - Socket, Gold-plated1616-20Male Contact - Pin, Tin-plated1616-20Female Contact - Pin, Tin-plated1616-20Male Contact - Pin, Nickel-plated1616-20Male Contact - Socket, Tin-plated1616-20Male Contact - Pin, Nickel-plated1620-22Female Contact - Socket, Nickel-plated1620-22Male Contact - Pin, Gold-plated1620-22			

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	

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

^{*}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	AWG	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	