

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:

HOUSING: THERMOPLASTIC; BLACK
SEAL: SILICONE RUBBER

2. MODIFICATIONS: THREADED ADAPTER;
REDUCED DIA. WIRE SEAL

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 OF 24 HOURS, MATED CONDITION);
IP69K(MATED CONDITION)
- 3.5 MATING CYCLE DURABILITY: 100 CYCLES
- 3.6 RoHS COMPLIANT

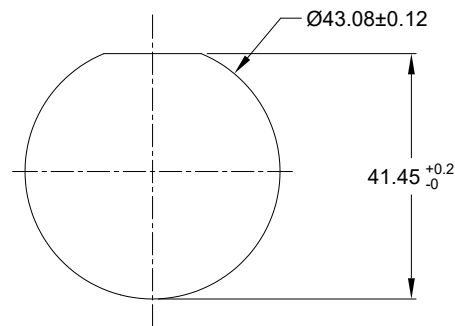
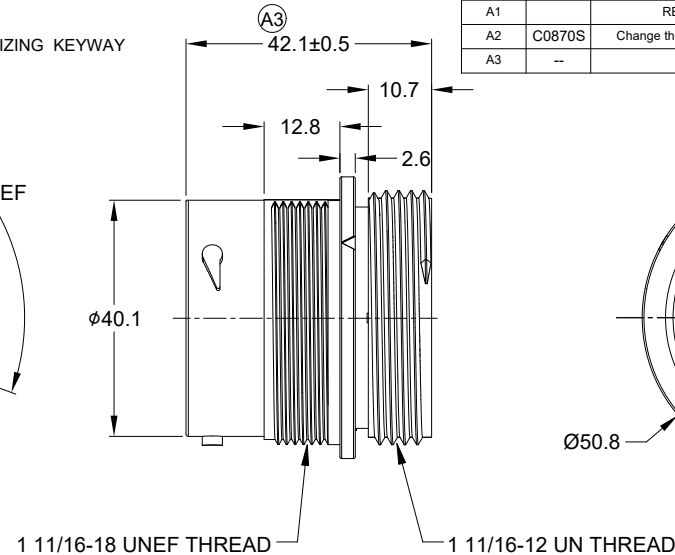
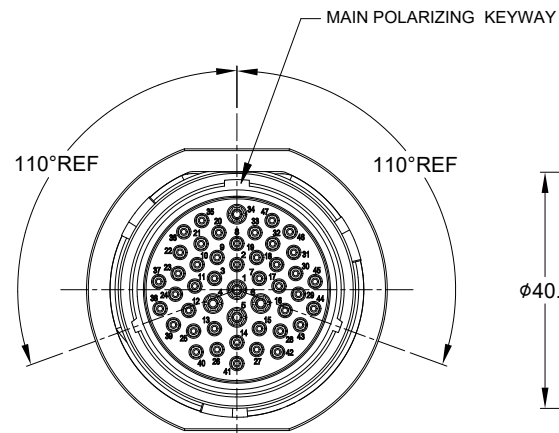
4. MATING PART: AHDP06-24-47P* (* = SEAL TYPE)

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

6. CONTACT 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)	2.10 mm (.083 in)	16-22 AWG (1.5-0.35mm ²)	7.5 AMPS
16	1.35 mm (.053in)	2.62 mm (.103 in)	14-20 AWG (2.0-0.5mm ²)	13 AMPS

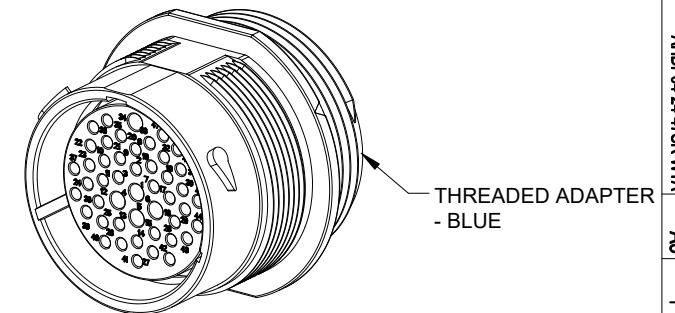
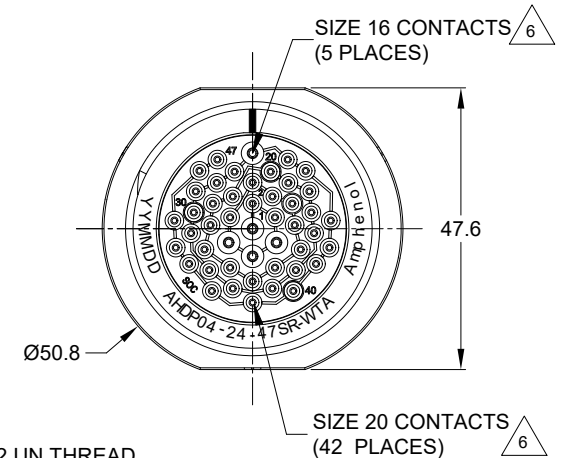
7. RECEPTACLE IS SUPPLIED WITH DUST CAP.



RECOMMENDED PANEL
MOUNTING HOLE

RECOMMENDED PANEL
THICKNESS: 1.6 TO 4.7MM

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1		RELEASE NEW DRAWING	28JUL16	JONY	TOMMY
A2	C0870S	Change the appearance of the retaining ring	27JUN18	KASOON	TOMMY
A3	--	UPDATE DIMENSION	03NOV21	LYNCH	TOMMY



AHPD04-24-47SR-WTA			
QUANTITY	PART NUMBER	DESCRIPTION	ITEM
MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED		SIGNATURES DATE	
1) All dimensions are in metric(mm).		DRAWN: LYNCH.PAN 03NOV21	
2) Tolerances are as follows:		CHECKED: SULLEN.ZHANG 03NOV21	
1 PL DEC ±0.30		ENGINEER:	
2 PL DEC ±0.15		APPROVAL: TOMMY.JOE 05NOV21	
3 PL DEC ±0.08		CUSTOMER:	
3) Note reference =		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, 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.	
MATERIAL SPECIFICATIONS:		SIZE TYPE DWG NO. REVISION	
WEIGHT:56.8G		B C- AHPD04-24-47SR-WTA A3	
PROCESS SPECIFICATIONS:		SCALE NONE SHEET 1 OF 1	
NEXT ASSY:			

Amphenol

Sine Systems - www.amphenol-sine.com
44724 Morley Drive
Clinton Township, MI 48036

RECEP., 24-47 POS. SOCKET CONTACT
REDUCED DIA. SEAL, AHDP SERIES

SIZE	TYPE	DWG NO.	REVISION
B	C-	AHDP04-24-47SR-WTA	A3
SCALE		NONE	
SHEET		1	OF 1

AT, ATV, AHD, ARB, ARC, DuraMate™ and PanelMate™ Series

Size 16 Contact & Tooling Options

Contacts - Machined

Part Number	Type	Style	Contact Size	Amp	Wire Range (AWG)	Wire Range (mm ²)	Insulation OD (mm)	Plating	Reel Size	Packaging
AT60-215-16141	Pin	Machined	Size 16	13A	14AWG	-	-	Nickel-Plated	-	-
AT60-215-1631	Pin	Machined	Size 16	13A	14AWG	-	-	Gold-Plated	-	-
AT60-202-16NKIT	Pin	Machined	Size 16	13A	16-20AWG	-	-	Nickel-Plated	-	-
AT60-202-16141	Pin	Machined	Size 16	13A	16-20AWG	-	-	Nickel-Plated	-	-
AT60-202-1631	Pin	Machined	Size 16	13A	16-20AWG	-	-	Gold-Plated	-	-
AT60-202-16141-22	Pin	Machined	Size 16	13A	22-24AWG	-	-	Nickel-Plated	-	-
AT60-202-1631-22	Pin	Machined	Size 16	13A	22-24AWG	-	-	Gold-Plated	-	-
AT62-209-16141	Socket	Machined	Size 16	13A	14AWG	-	-	Nickel-Plated	-	-
AT62-209-1631	Socket	Machined	Size 16	13A	14AWG	-	-	Gold-Plated	-	-
AT62-201-16NKIT	Socket	Machined	Size 16	13A	16-20AWG	-	-	Nickel-Plated	-	-
AT62-201-16141	Socket	Machined	Size 16	13A	16-20AWG	-	-	Nickel-Plated	-	-
AT62-201-1631	Socket	Machined	Size 16	13A	16-20AWG	-	-	Gold-Plated	-	-
AT62-201-16141-22	Socket	Machined	Size 16	13A	22-24AWG	-	-	Nickel-Plated	-	-
AT62-201-1631-22	Socket	Machined	Size 16	13A	22-24AWG	-	-	Gold-Plated	-	-

Contacts - Stamped & Formed

AT60-14-0122	Pin	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Nickel-Plated	-	-
AT60-14-0122-LP	Pin	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Nickel-Plated	-	Loose Piece
AT60-14-0144	Pin	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Gold-Plated	-	-
AT60-14-0144-LP	Pin	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Gold-Plated	-	Loose Piece
AT60-16-0122	Pin	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Nickel-Plated	-	-
AT60-16-0122-LP	Pin	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Nickel-Plated	-	Loose Piece
AT60-16-0144	Pin	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Gold-Plated	-	-
AT60-16-0144-LP	Pin	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Gold-Plated	-	Loose Piece
AT60-16-0622	Pin	S&F	Size 16	13A	16-20AWG	1.0-0.5mm ²	1.40 - 2.54mm	Nickel-Plated	-	-
AT60-16-0622-LP	Pin	S&F	Size 16	13A	16-20AWG	1.0-0.5mm ²	1.40 - 2.54mm	Nickel-Plated	-	Loose Piece
AT60-16-0644	Pin	S&F	Size 16	13A	16-20AWG	1.0-0.5mm ²	1.40 - 2.54mm	Gold-Plated	-	-
AT60-16-0644-LP	Pin	S&F	Size 16	13A	16-20AWG	1.0-0.5mm ²	1.40 - 2.54mm	Gold-Plated	-	Loose Piece
AT60-16-0322	Pin	S&F	Size 16	13A	20-22AWG	0.5-0.35mm ²	1.31 - 1.50mm	Nickel-Plated	-	-
AT60-16-0344	Pin	S&F	Size 16	13A	20-22AWG	0.5-0.35mm ²	1.31 - 1.50mm	Gold-Plated	-	-
AT60-16-0377	Pin	S&F	Size 16	13A	20-22AWG	0.5-0.35mm ²	1.31 - 1.50mm	Tin-Plated	-	-
AT60-16-0822	Pin	S&F	Size 16	13A	20-22AWG	0.5-0.35mm ²	1.31 - 1.50mm	Nickel-Plated	4,000	-
AT60-16-0844	Pin	S&F	Size 16	13A	20-22AWG	0.5-0.35mm ²	1.31 - 1.50mm	Gold-Plated	4,000	-
AT62-14-0122	Socket	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Nickel-Plated	-	-
AT62-14-0122-LP	Socket	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Nickel-Plated	-	Loose Piece
AT62-14-0144	Socket	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Gold-Plated	-	-
AT62-14-0144-LP	Socket	S&F	Size 16	13A	14-18AWG	2.0-0.75mm ²	2.40 - 3.81mm	Gold-Plated	-	Loose Piece
AT62-16-0122	Socket	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Nickel-Plated	-	-
AT62-16-0122-LP	Socket	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Nickel-Plated	-	Loose Piece
AT62-16-0144	Socket	S&F	Size 16	13A	16-18AWG	1.5-0.75mm ²	1.91 - 3.55mm	Gold-Plated	-	-

AT, ATV, AHD, ARB, ARC, DuraMate™ and PanelMate™ Series

Size 16 Contact & Tooling Options, cont.

Contacts - Stamped & Formed, cont.

Part Number	Type	Style	Contact Size	Amp	Wire Range (AWG)	Wire Range (mm²)	Insulation OD (mm)	Plating	Reel Size	Packaging
AT62-16-0144-LP	Socket	S&F	Size 16	13A	16-18AWG	1.5-0.75mm²	1.91 - 3.55mm	Gold-Plated	-	Loose Piece
AT62-16-0622	Socket	S&F	Size 16	13A	16-20AWG	1.0-0.5mm²	1.40 - 2.54mm	Nickel-Plated	-	-
AT62-16-0622-LP	Socket	S&F	Size 16	13A	16-20AWG	1.0-0.5mm²	1.40 - 2.54mm	Nickel-Plated	-	Loose Piece
AT62-16-0644	Socket	S&F	Size 16	13A	18-20AWG	1.0-0.5mm²	1.40 - 2.54mm	Gold-Plated	-	-
AT62-16-0644-LP	Socket	S&F	Size 16	13A	18-20AWG	1.0-0.5mm²	1.40 - 2.54mm	Gold-Plated	-	Loose Piece
AT62-16-0822	Socket	S&F	Size 16	13A	20-22AWG	0.5-0.35mm²	1.31 - 1.50mm	Nickel-Plated	4,000	-
AT62-16-0844	Socket	S&F	Size 16	13A	20-22AWG	0.5-0.35mm²	1.31 - 1.50mm	Gold-Plated	4,000	-

Tooling

Part Number	Tool Name	Style	Contact Size	Wire Range (AWG)	Material	Color
AUTK-16	Hand Crimp Tool	Machined	Size 16	-	-	-
AUTK-100	Universal Heavy Duty Contact Crimping Tool Kit	Machined	Size 12/16/20	12-26AWG	-	-
CA-5D12	Universal Hand Crimp Tool	Machined	Size 12/16/20	12-26AWG	-	-
CA-5E12	Pneumatic Crimp Tool	Machined	Size 12/16/20	12-26AWG	-	-
MXF-3950-G or K	Crimp Die Press Applicator	S&F	Size 16	18-20AWG	-	-
MXF-3953-G or K	Crimp Die Press Applicator	S&F	Size 16	16-18AWG	-	-
MXF-3975-G or K	Crimp Die Press Applicator	S&F	Size 16	14-16AWG	-	-
MXF-3990	Crimp Die	S&F	Size 16	20-22AWG	-	-
ATT-16-00	Hand Crimp Tool	S&F	Size 16	14-16AWG	-	-
ATT-16-01	Hand Crimp Tool	S&F	Size 16	18-20AWG	-	-
ATT-1612-03	Hand Crimp Tool	S&F	Size 12/16	20-22AWG	-	-
ATRT-100	Contact and Wedgelock Extraction Tool	Universal	Universal	-	Steel	Silver
AT11-310-1605	Contact Extraction Tool	Universal	Size 16	-	Plastic	Lt Blue
A114017	Seal Plug	Universal	Size 12/16	-	Thermoplastic	White
A114017-SR	Seal Plug	Universal	Size 16	-	Thermoplastic	Black
AT13-217-1605	Locking Seal Plug	Universal	Size 16	-	Thermoplastic	Grey
AT13-217-1605-SR	Locking Seal Plug	Universal	Size 16	-	Thermoplastic	Red

ATM, DuraMate™ and PanelMate™ Series

Size 20 Contact & Tooling Options

Contacts - Machined

Part Number	Type	Style	Contact Size	Amp	Wire Range (AWG)	Wire Range (mm ²)	Insulation OD (mm)	Plating	Reel Size	Packaging
AT60-010-20141	Pin	Machined	Size 20	7.5A	16-18AWG	-	-	Nickel-Plated	-	-
AT60-010-2031	Pin	Machined	Size 20	7.5A	16-18AWG	-	-	Gold-Plated	-	-
AT60-202-20NKIT	Pin	Machined	Size 20	7.5A	18-22AWG	-	-	Nickel-Plated	-	-
AT60-202-20141	Pin	Machined	Size 20	7.5A	20-22AWG	-	-	Nickel-Plated	-	-
AT60-202-2031	Pin	Machined	Size 20	7.5A	20-22AWG	-	-	Gold-Plated	-	-
AT60-202-2031-22	Pin	Machined	Size 20	5A	22-26AWG	-	-	Gold-Plated	-	-
AT60-202-20141-22	Pin	Machined	Size 20	5A	22-26AWG	-	-	Nickel-Plated	-	-
AT62-005-20141	Socket	Machined	Size 20	7.5A	16-18AWG	-	-	Nickel-Plated	-	-
AT62-005-2031	Socket	Machined	Size 20	7.5A	16-18AWG	-	-	Gold-Plated	-	-
AT62-201-20NKIT	Socket	Machined	Size 20	7.5A	20-22AWG	-	-	Nickel-Plated	-	-
AT62-201-20141	Socket	Machined	Size 20	7.5A	20-22AWG	-	-	Nickel-Plated	-	-
AT62-201-2031	Socket	Machined	Size 20	7.5A	20-22AWG	-	-	Gold-Plated	-	-
AT62-20-0422	Socket	Machined	Size 20	7.5A	20-22AWG	-	-	Nickel-Plated	-	-
AT62-20-0444	Socket	Machined	Size 20	7.5A	20-22AWG	-	-	Gold-Plated	-	-
AT62-201-2031-22	Socket	Machined	Size 20	5A	22-26AWG	-	-	Gold-Plated	-	-
AT62-201-20141-22	Socket	Machined	Size 20	5A	22-26AWG	-	-	Nickel-Plated	-	-

Contacts - Stamped & Formed

AT60-20-0122	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Nickel-Plated	-	-
AT60-20-0122-LP	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Nickel-Plated	-	Loose Piece
AT60-20-0144	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Gold-Plated	-	-
AT60-20-0144-LP	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Gold-Plated	-	Loose Piece
AT60-20-0222	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.30 - 2.16mm	Nickel-Plated	-	-
AT60-20-0244	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.30 - 2.16mm	Gold-Plated	-	-
AT60-20-0277	Pin	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.30 - 2.16mm	Tin-Plated	-	-
AT60-20-0422	Pin	S&F	Size 20	7.5A	20-22AWG	0.5-0.35mm ²	1.25 - 1.8mm	Nickel-Plated	-	-
AT60-20-0444	Pin	S&F	Size 20	7.5A	20-22AWG	0.5-0.35mm ²	1.25 - 1.8mm	Gold-Plated	-	-
AT62-20-0122	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Nickel-Plated	-	-
AT62-20-0122-LP	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Nickel-Plated	-	Loose Piece
AT62-20-0144	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Gold-Plated	-	-
AT62-20-0144-LP	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.91 - 3.15mm	Gold-Plated	-	Loose Piece
AT62-20-0222	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.30 - 2.16mm	Nickel-Plated	-	-
AT62-20-0244	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.30 - 2.16mm	Gold-Plated	-	-
AT62-20-0277	Socket	S&F	Size 20	7.5A	16-22AWG	1.5-0.35mm ²	1.30 - 2.16mm	Tin-Plated	-	-
AT62-20-0422	Socket	S&F	Size 20	7.5A	20-22AWG	0.5-0.35mm ²	1.25 - 1.8mm	Nickel-Plated	-	-
AT62-20-0444	Socket	S&F	Size 20	7.5A	20-22AWG	0.5-0.35mm ²	1.25 - 1.8mm	Gold-Plated	-	-

ATM, DuraMate™ and PanelMate™ Series
Size 20 Contact & Tooling Options, cont.

Tooling

Part Number	Tool Name	Style	Contact Size	Wire Range (AWG)	Material	Color
AUTK-20	Hand Crimp Tool	Machined	Size 20	12-26AWG	-	-
AUTK-100	Universal Heavy Duty Contact Crimping Tool Kit	Machined	Size 12/16/20	12-26AWG	-	-
CA-5D12	Universal Hand Crimp Tool	Machined	Size 12/16/20	12-26AWG	-	-
CA-5E12	Pneumatic Crimp Tool	Machined	Size 12/16/20	12-26AWG	-	-
MF3-3974-G or K	Crimp Die Press Applicator	S&F	Size 20	20AWG	-	-
MF3-3976-G or K	Crimp Die Press Applicator	S&F	Size 20	20-22AWG	-	-
MF3-3978-G or K	Crimp Die Press Applicator	S&F	Size 20	20-22AWG	-	-
ATT-20-00	Hand Crimp Tool	S&F	Size 20	16-20AWG	-	-
ATRT-100	Contact and Wedgelock Extraction Tool	Universal	Universal	-	Steel	Silver
AT11-240-2005	Contact Extraction Tool	Universal	Size 20	-	Plastic	Red
AT13-204-2005	Seal Plug	Universal	Size 20	-	Thermoplastic	White
AT13-204-2005-SR	Seal Plug	Universal	Size 20	n/a	Thermoplastic	Black
ATM13-217-2005	Locking Seal Plug	Universal	Size 20	-	Thermoplastic	Grey
ATM13-217-2005-SR	Locking Seal Plug	Universal	Size 20	-	Thermoplastic	Blue