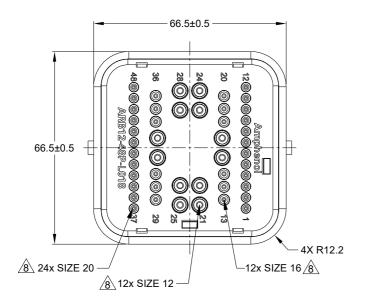
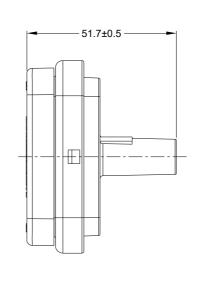
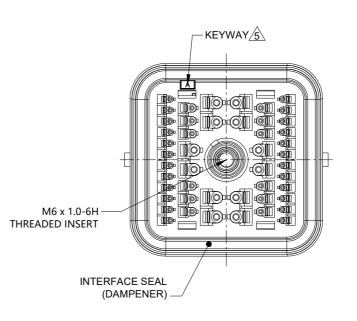
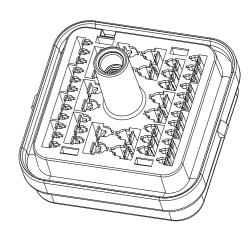
		REVISIONS			
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	09/MAR/23	IAN	TOMMY









NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: HOUSING, END CAP: THERMOPLASTIC, BLACK SEAL: SILICONE RUBBER THREADED INSERT: STAINLESS STEEL
- 2. MODIFICATIONS: REDUCED DIAMETER 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 MEGOHMS 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: ARB16-48SxR-XXXX PLUG (x = A,B,C,D KEYS; XXXX = ALL MODIFICATIONS)

5. SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

- 6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY
- 7. ITEMS SOLD SEPARATELY: WEDGE: AWB-48Px (x = A,B,C,D KEYS) INTERFACE FLANGE: ARBF-2x (x = A,B,C,D KEYS)

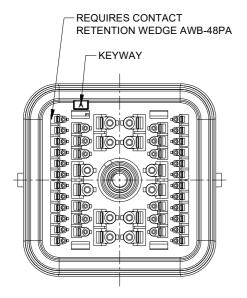
8. CONTACT SIZE AND REAR SEAL WIRE RANGE:

CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE	CURRENT RATING
12	2.46 mm (.097 in)	4.013 mm (.158 in)	10 - 14 AWG (6.0 - 2.0 mm ²)	25 AMPS
16	1.35 mm (.053 in)	3.048 mm (.120 in)	14 - 20 AWG (2.0 - 0.5 mm ²)	13 AMPS
20	1.02 mm (.040 in)	2.413 mm (.095 in)	16 - 22 AWG (1.5-0.35 mm²)	7.5 AMPS

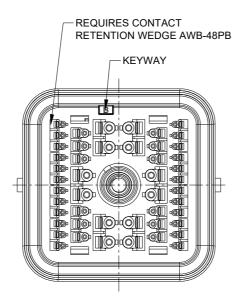
	SEE S	SHEET 2			
QUANTITY	PART N	NUMBER		DESCRIPTION	ITEM
		MA	TERI/	ALS LIST	
	UNLESS OTHERWISE SPECIFIED SIGNATURES DATE			Amphonol	
All dimensions a Tolerances are a PL DEC ±0.30		DRAWN: IAN.XIAO	09/MAR/23	Amphenol	
2 PL DEC ±0.15 3 PL DEC ±0.08	Angles ±1°	CHECKED: SULLEN.ZHAN	G 09/MAR/23	Sine Systems - www.amphenol-sine.com	
3) Note reference	- X	ENGINEER:		44724 Morley Drive	
MATERIAL SPECIFICA	TIONS:	APPROVAL: TOMMY.XIE	11/MAR/23	Clinton Township, MI 48036	
WEIGHT:	94 2a	CUSTOMER:	•	48 POS,RECEPTACLE,PIN,ARB SERIES	ί,
		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY, DESIGN FEATURES.		REDUCED SEAL,BLACK	
PROCESS SPECIFICATIONS:		SPECIFICATIONS AND PER SHOWN HEREON ARE THE THE AMPHENOL CORPORA OF REPRODUCTION ARE IN	FORMANCE DATA PROPERTY OF TION. NO RIGHTS IPLIED. ALL		A1
NEXT ASS'Y:		MANUFACTURING VARIATION	ONS.	SCALE: NONE SHEET 1 OF	2

ARB12-48PxR-L018

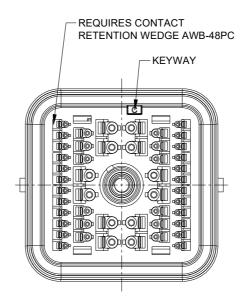
		REVISIONS			
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	09/MAR/23	IAN	TOMMY



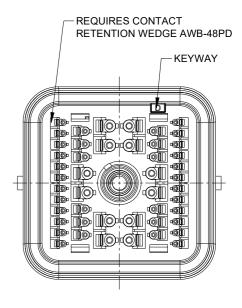




PART NUMBER	REF
ARB12-48PBR-L018	DRB12-48PBE-L018



	PART NUMBER	REF
A	ARB12-48PCR-L018	DRB12-48PCE-L018



48 POS, RECEPTACLE, PIN, ARB SERIES, REDUCED SEAL, BLACK

DWG NO: ARB12-48PxR-L018 REV: A1 SH: 2

ARB12-48PDR-L018 DRB12-48PDE-L018	PART NUMBER	REF
	ARB12-48PDR-L018	DRB12-48PDE-L018

	ARB12-4	8PxR-L	.018						1
QUANTITY	PART N	IUMBEI	R		DE	SCRIPTION		ITEM	1
			MAT	ERI	ALS LI	ST			1
	WISE SPECIFIED	SIG	NATURES	DATE	^	mnhc	\nol]
1) All dimensions a 2) Tolerances are a 1 PL DEC ±0.30		DRAWN:	IAN.XIAO	09/MAR/23	Amphenol				
2 PL DEC ±0.30 3 PL DEC ±0.08	Angles ±1°	CHECKED:	SULLEN.ZHANG	09/MAR/23	Sine Systems - www.amphenol-sine.com				
3) Note reference	- X	ENGINEER:			44724 Morley Drive				
MATERIAI SPECIFICA	TIONS:	APPROVAL:	TOMMY.XIE	11/MAR/23		Clinton Township, MI 48	3036		-
WEIGHT:		CUSTOMER:			48 POS,RECEPTACLE,PIN,ARB SERIES,				
			NG IS SUPPLIED ON ONLY, DESIGN						
PROCESS SPECIFICATIONS: SPECIFICATIONS AND PERFORMANCE DATA SIZE TYPE DWG NO: F		SPECIFICAT SHOWN HER THE AMPHE OF REPROD	IONS AND PERFO REON ARE THE PI NOL CORPORATI JUCTION ARE IMP	DRMANCE DATA ROPERTY OF ION. NO RIGHTS PLIED. ALL	B C-			A1	
		2]						

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						
*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	
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				

Cont	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	Type	
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	Type	
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						
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		

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

Machined Contacts, Sockets & Pins					
Part Number	Description	Size	AWG	Type	
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	Part Number Description		
AUTK-20	Hand Crimp Tool, Size 20		
AUTK-100	JTK-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	