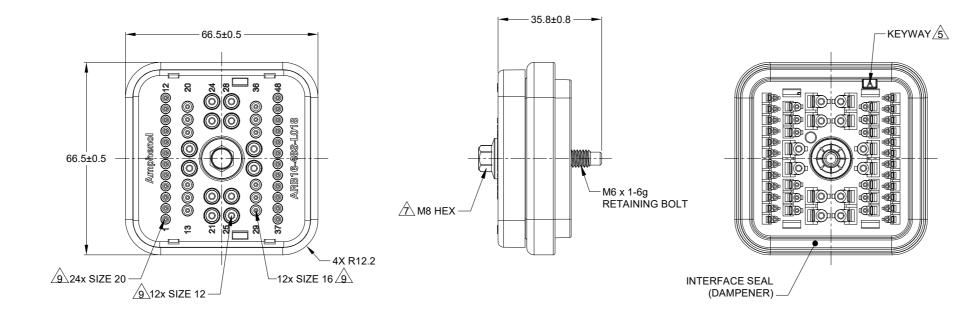
REV	ECO	
A1	-	RE



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. MATERIAL: HOUSING, END CAP: THERMOPLASTIC, BLACK SEAL: SILICONE RUBBER BOLT AND CLIP: 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);

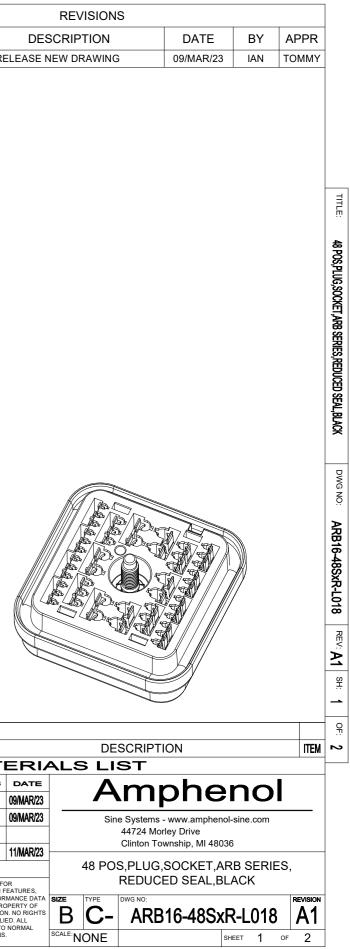
 - IP69K(MATED CONDITION) 3.5 MATING CYCLE DURABILITY: 100 CYCLES
 - 3.6 RoHS COMPLIANT
- 4. MATING PART: ARB12-48PxR-XXXX RECEPTACLE (x = A,B,C,D KEYS; XXXX = ALL MODIFICATIONS)

5 SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

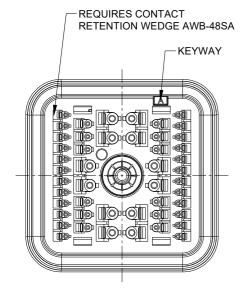
- 6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY
- / MATING TORQUE REQUIREMENT: 30 35 IN-LB [3.38 3.95 Nm]
- 8. ITEMS SOLD SEPARATELY: WEDGE: AWB-48Sx (x = A,B,C,D KEYS) INTERFACE FLANGE: ARBF-2x (x = A,B,C,D KEYS)
- 9. CONTACT SIZE AND REAR SEAL WIRE RANGE:

CONTACT	MIN. INSUL	MAX. INSUL	TYPICAL	CURRENT
SIZE	O.D.	O.D.	WIRE RANGE	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

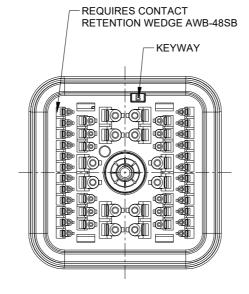
	SEE S	SHEET 2	2	
QUANTITY	PART N	IUMBEI	R	
			MA	TE
		SIG	NATURE	s
2) Tolerances are a	All dimensions are in metric(mm). Tolerances are as follows: PL DEC + 0.30 Erections + 1/64			
2 PL DEC ±0.15 3 PL DEC ±0.08	Angles ±1°	CHECKED:	SULLEN.ZHA	NG
3) Note reference	- <u>x</u>	ENGINEER:		
MATERIAL SPECIFICA	TIONS:	APPROVAL:	TOMMY.XIE	
WEIGUT	05.0	CUSTOMER		
WEIGHT:	0	INFORMATIC SPECIFICAT SHOWN HEF THE AMPHE OF REPROD	ON ONLY. DES IONS AND PEI REON ARE THI NOL CORPOR UCTION ARE	IGN FI RFORI E PRO ATION
NEXT ASS'Y:			BER MATE MAXAO ED: SULENZHANG EER: VAL: TOMMYXE	



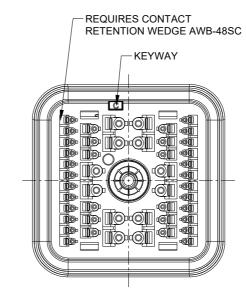
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PART NUMBER	REF
ARB16-48SAR-L018	DRB16-48SAE-L018

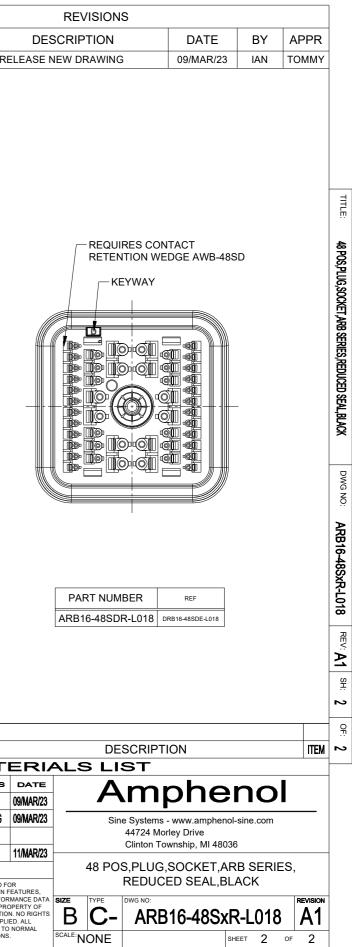


PART NUMBER	REF	
ARB16-48SBR-L018	DRB16-48SBE-L018	



PART NUMBER	REF
ARB16-48SCR-L018	DRB16-48SCE-L018

	ARB16-4	8SxR-L	.018		
QUANTITY	PART N	IUMBE	R		
			MA	TE	
UNLESS OTHER		SIG	NATURE	s	
 All dimensions are in metric(mm). Tolerances are as follows: PL DEC ±0.30 Fractions ±1/64 		DRAWN:	IAN.XIAO		
2 PL DEC ±0.15 3 PL DEC ±0.08	Angles ±1°	CHECKED:	SULLEN.ZHA	NG	
3) Note reference	- 🔨	ENGINEER:			
MATERIAL SPECIFICA	TIONS:	APPROVAL:	TOMMY.XIE		
WEIGHT:	95.8a	CUSTOMER	-		
PROCESS SPECIFICA	8	INFORMATION SPECIFICAT SHOWN HEI THE AMPHE OF REPROD	ING IS SUPPLI ON ONLY. DES FIONS AND PEI REON ARE THI ENOL CORPOR DUCTION ARE I S ARE SUBJEC	IGN FI RFORI E PRO ATION	
NEXT ASS'Y:			URING VARIAT		



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

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

*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		

	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				

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				

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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	Part Number Description			
AUTK-20	AUTK-20 Hand Crimp Tool, Size 20			
AUTK-100	AUTK-100 Universal Heavy Duty Contact Crimping Tool Kit, Size 12/16/20			
CA-5D12	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	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		
AT60-14-0122	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	

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	

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