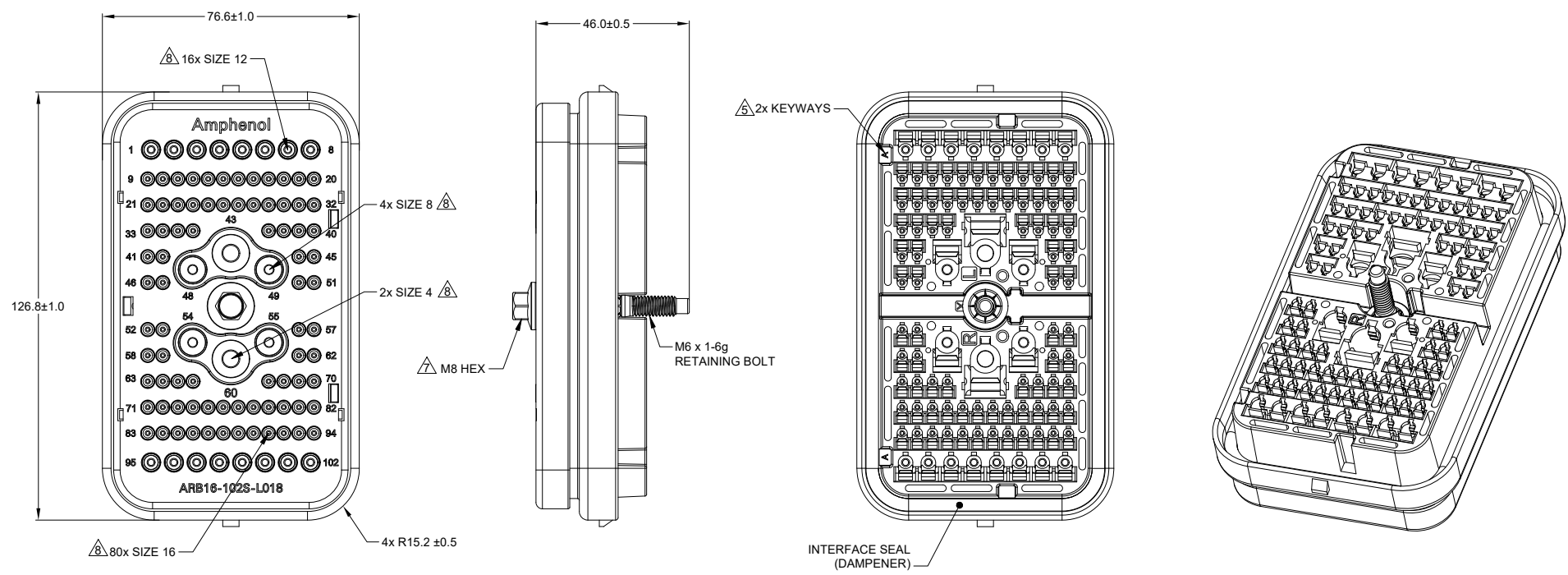


REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	08/MAY/23	VITO	TOMMY



- SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY
- MATING TORQUE REQUIREMENT: 30 - 35 IN-LB [3.38 - 3.95 NM]

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: HOUSING, END CAP: THERMOPLASTIC, BLACK
WIRE SEAL, INTERFACE SEAL, O-RING : SILICONE RUBBER
THREADED INSERT, SCREW : STAINLESS STEEL
- MODIFICATIONS: REDUCED DIAMETER WIRE SEAL;
- SPECIFICATIONS:
 - OPERATING TEMPERATURE: -55°C TO +125°C
 - DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC
 - INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C
 - MOISTURE RESISTANCE: IP68 (1M OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION); IP69K(MATED CONDITION)
 - MATING CYCLE DURABILITY: 100 CYCLES
 - RoHS COMPLIANT
- MATING PART: ARB12-102PxR-XXXX RECEPTACLE, ARBF-1x INTERFACE FLANGE, (x = A,B,C,D KEYS ; XXXX = ALL MODIFICATIONS)

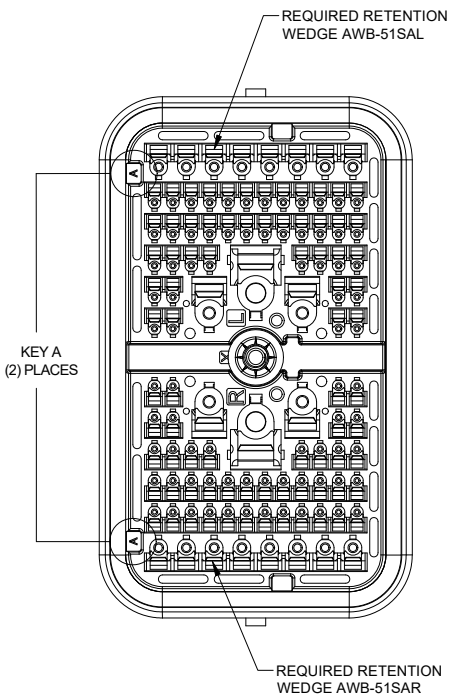
- ITEMS SOLD SEPARATELY:
WEDGE: AWB-51SxR AND AWB-51SxL (x = A,B,C,D KEYS)
INTERFACE FLANGE: ARBF-1x (x = A,B,C,D KEYS)
- CONTACT SIZE AND REAR SEAL WIRE RANGE:

CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE	CURRENT RATING
4	6.63 mm (.261 in)	7.42 mm (.292 in)	6 AWG (16-13.0 mm ²)	100 AMPS
8	3.43 mm (.135 in)	5.59 mm (.220 in)	8 - 10 AWG (10.0 - 5.0 mm ²)	60 AMPS
12	2.46 mm (.097 in)	4.01 mm (.158 in)	10 - 14 AWG (6.0 - 2.0 mm ²)	25 AMPS
16	1.35 mm (.053 in)	3.05 mm (.120 in)	14 - 20 AWG (2.0 - 0.5 mm ²)	13 AMPS

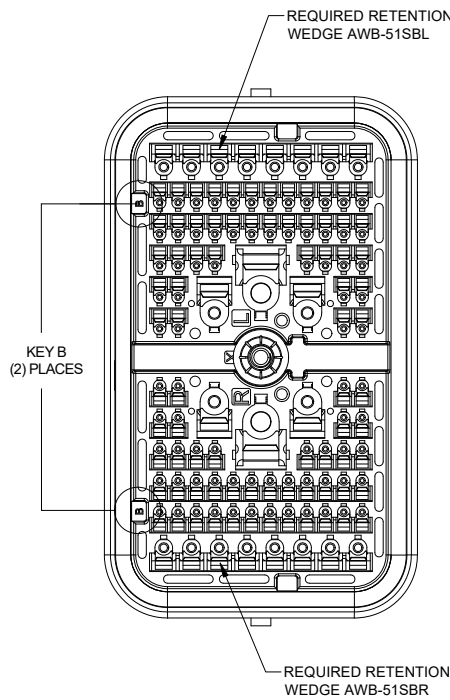
QUANTITY	SEE SHEET 2	DESCRIPTION	ITEM
	PART NUMBER		
MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric (mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 Fractions ±1/64 2 PL DEC ±0.15 Angles ±1° 3) Note reference =		SIGNATURES DATE DRAWN: VITOLI 08MAY23 CHECKED: OrionLi 08MAY23 ENGINEER: APPROVAL: TOMMYXIE 10MAY23	
MATERIAL SPECIFICATIONS: WEIGHT: 230.7g		<div style="text-align: center;"> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p>102 POS, PLUG, SOCKET, ARB SERIES, KEYPED, REDUCED SEAL, BLACK</p> </div>	
PROCESS SPECIFICATIONS: NEXT ASSY:			
CUSTOMER: 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.			
SIZE: B C-		DWG NO: ARB16-102SxR-L018	
SCALE: NONE		REVISION: A1	
SHEET 1 OF 2			

TITLE: 102 POS, PLUG, SOCKET, ARB SERIES, KEYPED, REDUCED SEAL, BLACK
 DWG NO: ARB16-102SxR-L018
 REV: A1
 SH: 1
 OF: 2

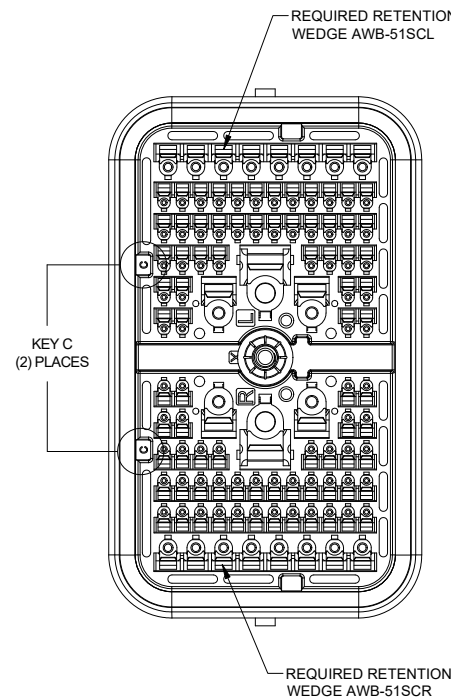
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	08/MAY/23	VITO	TOMMY



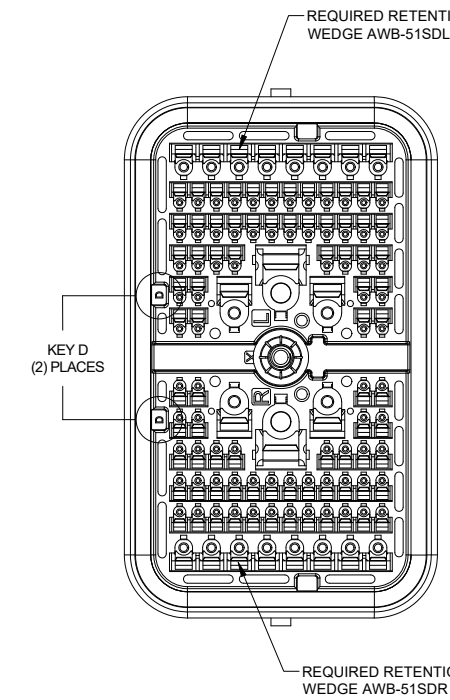
PART NUMBER	REF
ARB16-102SAR-L018	DRB16-102SAE-L018



PART NUMBER	REF
ARB16-102SBR-L018	DRB16-102SBE-L018



PART NUMBER	REF
ARB16-102SCR-L018	DRB16-102SCE-L018



PART NUMBER	REF
ARB16-102SDR-L018	DRB16-102SDE-L018

QUANTITY	ARB16-102SxR-L018	DESCRIPTION	ITEM								
	PART NUMBER										
MATERIALS LIST											
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APPROVAL: TOMMY XIE	10/MAY/23										
MATERIAL SPECIFICATIONS:		<div style="text-align: center;"> <h1>Amphenol</h1> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p>102 POS, PLUG, SOCKET, ARB SERIES,KEYED, REDUCED SEAL, BLACK</p> </div>									
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		SIZE: B C- TYPE: ARB16-102SxR-L018 DWG NO.: A1 REVISION: A1 SCALE: NONE SHEET 2 OF 2									

TITLE: 102 POS, PLUG, SOCKET, ARB SERIES,KEYED, REDUCED SEAL, BLACK
 DWG NO.: ARB16-102SxR-L018
 REV: A1
 SH: 2
 OF: 2