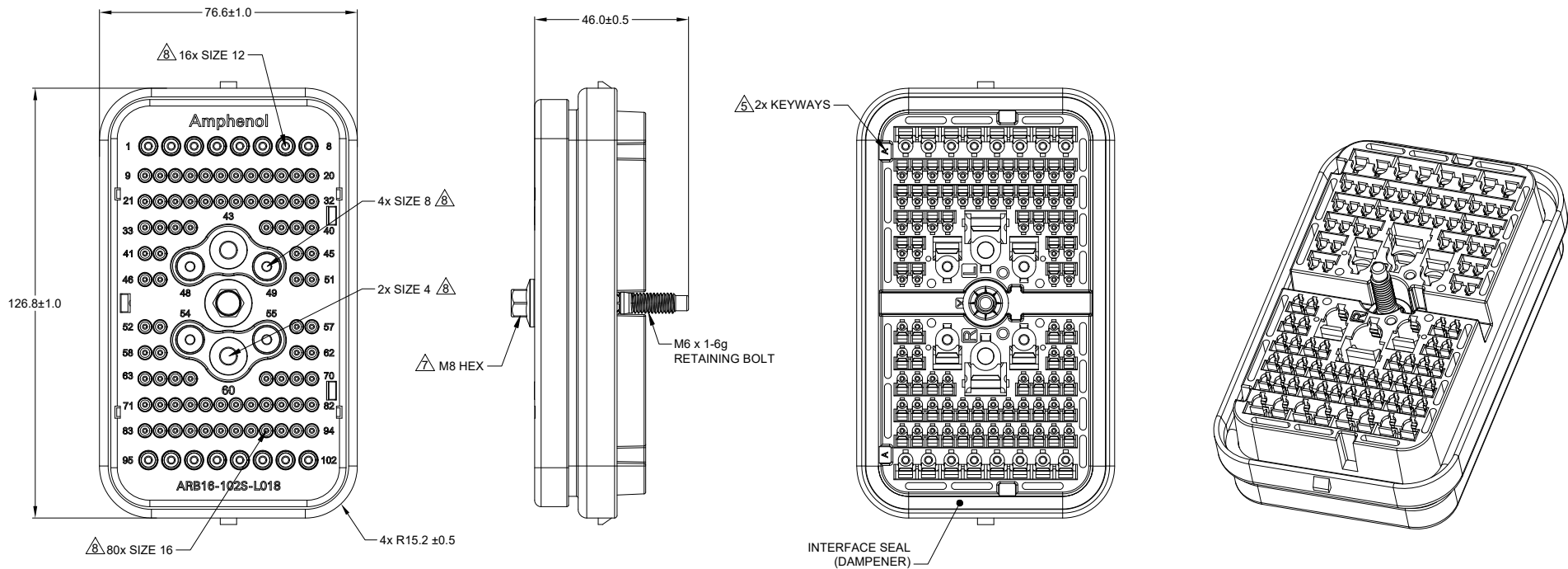


REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	08/MAY/23	VITO	TOMMY



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:
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 (1M OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION);
IP69K(MATED CONDITION)
3.5 MATING CYCLE DURABILITY: 100 CYCLES
3.6 RoHS COMPLIANT
- MATING PART: ARB12-102PxR-XXXX RECEPTACLE, ARBF-1x INTERFACE FLANGE,
(x = A,B,C,D KEYS ; XXXX = ALL MODIFICATIONS)

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]

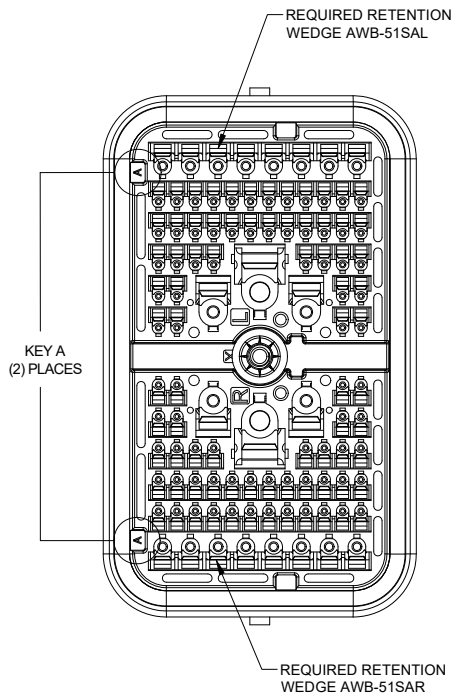
ITEMS SOLD SEPARATELY:
WEDGE: AWB-51SxR AND AWB-51SxL (x = A,B,C,D KEYS)
INTERFACE FLANGE: ARBF-1x (x = A,B,C,D KEYS)

CONTACT SIZE AND REAR SEAL WIRE RANGE:

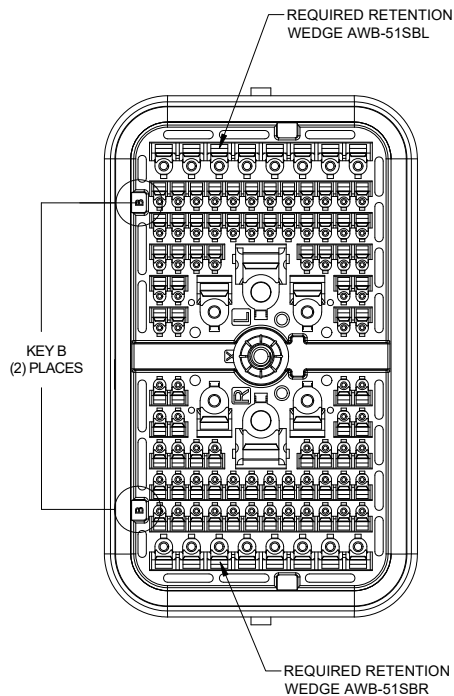
CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE	CURRENT RATING
4	6.63 mm (.261 in)	7.42 mm (.292 in)	6 AWG (16-13.0 mm ²)	100 AMPS
8	3.43 mm (.135 in)	5.59 mm (.220 in)	8 - 10 AWG (10.0 - 5.0 mm ²)	60 AMPS
12	2.46 mm (.097 in)	4.01 mm (.158 in)	10 - 14 AWG (6.0 - 2.0 mm ²)	25 AMPS
16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

		SEE SHEET 2				DESCRIPTION		ITEM	
QUANTITY		PART NUMBER							
MATERIALS LIST									
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 2 PL DEC ±0.15 3 PL DEC ±0.08 3) Note reference = 		SIGNATURES		DATE		Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036			
MATERIAL SPECIFICATIONS: WEIGHT: 230.7 g		DRAWN: VITOLJ		08MAY23		102 POS, PLUG, SOCKET, ARB SERIES, KEYS, REDUCED SEAL, BLACK			
		CHECKED: OtonLI		09MAY23					
		ENGINEER:							
PROCESS SPECIFICATIONS:		APPROVAL: TOMMY XIE		10MAY23		SIZE TYPE DWG NO. REVISION B C- ARB16-102SxR-L018 A1			
		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.							
NEXT ASSY:									
		SCALE: NONE				SHEET 1 OF 2			

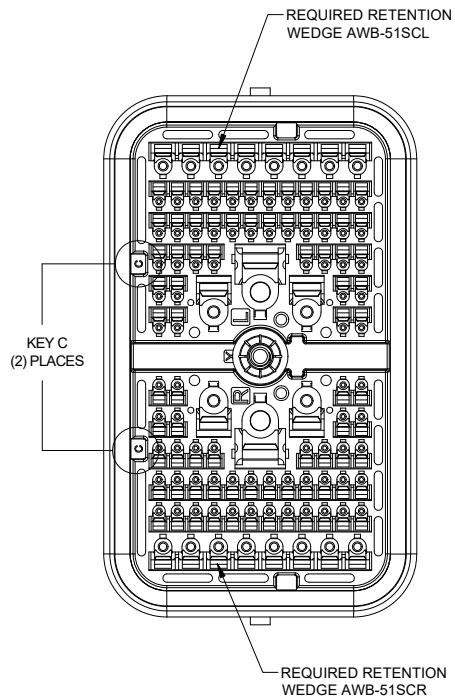
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	08/MAY/23	VITO	TOMMY



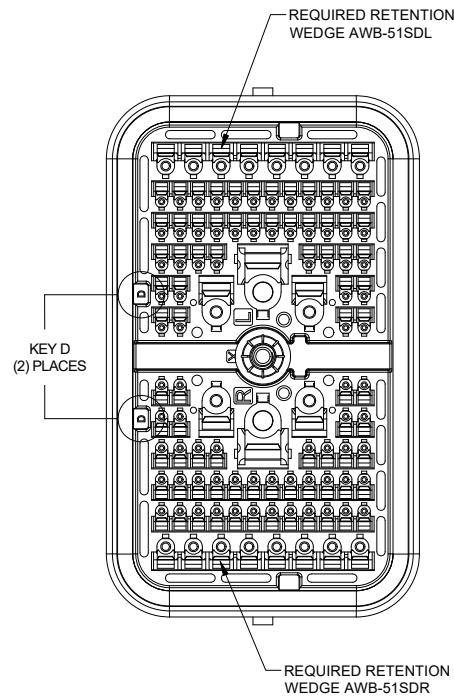
PART NUMBER	REF
ARB16-102SAR-L018	DRB16-102SAE-L018



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

ARB16-102SxR-L018		DESCRIPTION		ITEM
QUANTITY	PART NUMBER			
MATERIALS LIST				
UNLESS OTHERWISE SPECIFIED		SIGNATURES	DATE	Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036 102 POS, PLUG, SOCKET, ARB SERIES,KEYED, REDUCED SEAL, BLACK
1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ± 0.30 2 PL DEC ± 0.15 3 PL DEC ± 0.08 3) Note reference =		DRAWN: VITOLJ	08/MAY/23	
Fractions $\pm 1/64$ Angles $\pm 1^\circ$		CHECKED: OtonLJ	09/MAY/23	
		ENGINEER:		
		APPROVAL: TOMMY XIE	10/MAY/23	
MATERIAL SPECIFICATIONS:		CUSTOMER:		
PROCESS SPECIFICATIONS:		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.		
NEXT ASSY:				
SIZE	B	TYPE	C-	DWG NO. ARB16-102SxR-L018
SCALE:	NONE		REVISION A1	
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