

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:**
HOUSING: THERMOPLASTIC, BLACK
SEAL: SILICONE RUBBER
CLIP: STAINLESS STEEL
BOLD: STAINLESS STEEL
- MODIFICATIONS:** NORMAL DIA. WIRE SEAL;
INTERFACE SEALS ARE BONDED TO
PLUG HOUSING
- SPECIFICATIONS:**
3.1 CURRENT RATING: 13 AMPS
3.2 OPERATING TEMPERATURE: -55°C TO +125°C
3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2
MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC
3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C
3.5 MOISTURE RESISTANCE:
IP68 (IM OF WATER FOR A PERIOD OF 24 HOURS, MATED
CONDITION)
IP69K(MATED CONDITION)
3.6 MATING CYCLE DURABILITY: 100 CYCLES
3.7 RoHS COMPLIANT
- MATING PART:** ARC12-40PX* RECEPTACLE
(X = A,B,C,D KEYS ; * = ALL MODIFICATIONS)

5 SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

6 CONTACT SIZE AND REAR SEAL WIRE RANGE:

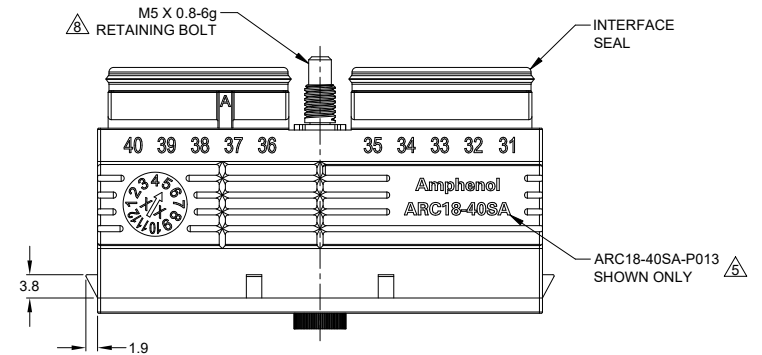
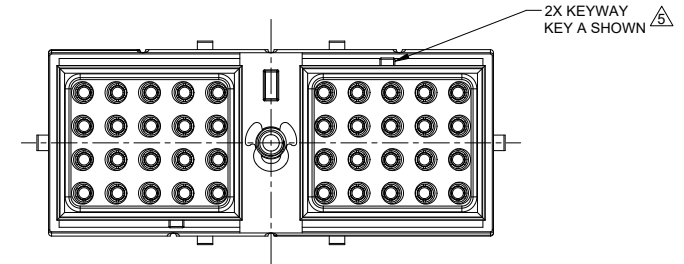
CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE
16	2.54 mm (.100 in)	3.40 mm (.134 in)	14 - 20 AWG (2.0 - 0.5 mm ²)

7. PLUG IS SUPPLIED WITH DUST CAP

8 MATING TORQUE REQUIREMENT: 25 - 28 IN-LB [2.82 - 3.16 Nm]

9. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	05/APR/21	SULLEN	TOMMY



SEE SHEET 2		DESCRIPTION		ITEM
PART NUMBER		MATERIALS LIST		
QUANTITY		SIGNATURES		DATE
UNLESS OTHERWISE SPECIFIED		DRAWN: SULLEN, ZHANG		05/APR/21
1) All dimensions are in metric (mm).		CHECKED: ORION LI		06/APR/21
2) Tolerances are as follows:		ENGINEER:		
1 PL DEC ±0.30		APPROVAL: TOMMY XIE		07/APR/21
2 PL DEC ±0.15		CUSTOMER:		
3 PL DEC ±0.08		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.		
3) Note reference =		MATERIAL SPECIFICATIONS:		
PROCESS SPECIFICATIONS:		NEXT ASSY:		
SCALE: NONE		SIZE: B		TYPE: C- ARC18-40SX-P013
DWG NO:		REVISION: A1		
SHEET 1 OF 2		TITLE: 40 POS. PLUG, SOCKET, ARC SERIES, KEYED, NORMAL SEAL, BLACK		
DWG NO: ARC18-40SX-P013		REV: A1		
SH: 1		OF: 2		

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	05/APR/21	SULLEN	TOMMY

TITLE: 40 POS. PLUG, SOCKET,ARC SERIES,KEYED, NORMAL SEAL,BLACK

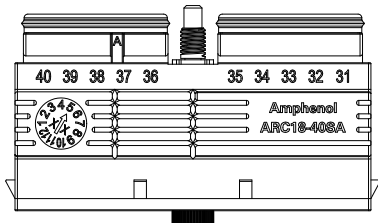
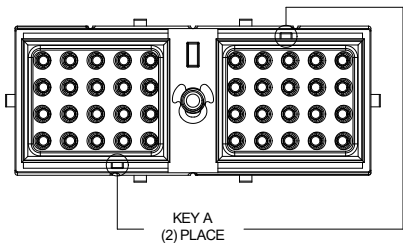
DWG NO.

ARC18-40SX-P013

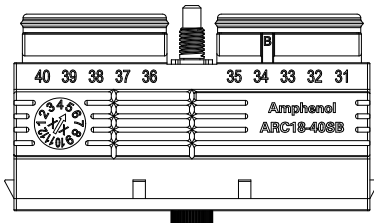
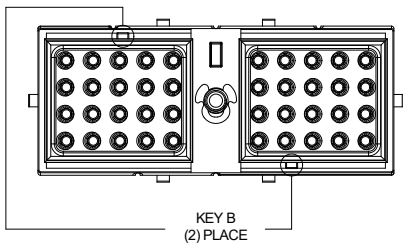
REV/ A1

SH. 2

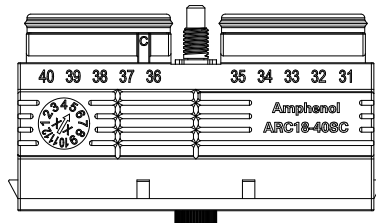
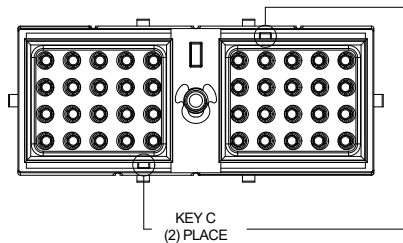
OF 2



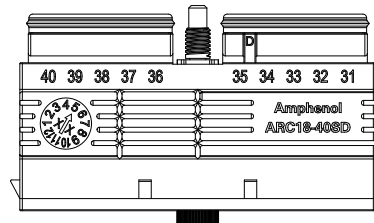
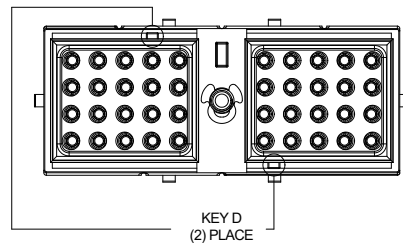
ARC18-40SX-P013 VARIANTS	
PART NUMBER	REF
ARC18-40SA-P013	DRC18-40SA-P013



ARC18-40SX-P013 VARIANTS	
PART NUMBER	REF
ARC18-40SB-P013	DRC18-40SB-P013



ARC18-40SX-P013 VARIANTS	
PART NUMBER	REF
ARC18-40SC-P013	DRC18-40SC-P013



ARC18-40SX-P013 VARIANTS	
PART NUMBER	REF
ARC18-40SD-P013	DRC18-40SD-P013

ARC18-40SX-P013		DESCRIPTION		ITEM
PART NUMBER		MATERIALS LIST		
QUANTITY		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		
		Fractions ±1/64		
		Angles ±1°		
		3) Note reference =		
		SIGNATURES		
		DATE		
		DRAWN: SULLENZHANG		
		05/APR/21		
		CHECKED: ORIONLI		
		06/APR/21		
		ENGINEER:		
		APPROVAL: TOMMYJOE		
		07/APR/21		
		CUSTOMER:		
		MATERIAL 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.		
		PROCESS SPECIFICATIONS:		
		NEXT ASSY:		
		Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036		
		40 POS, PLUG, SOCKET,ARC SERIES, KEYED, NORMAL SEAL,BLACK		
		SIZE TYPE DWG NO. REVISION		
		B C- ARC18-40SX-P013 A1		
		SCALE: NONE		
		SHEET 2 OF 2		

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	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	Type
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	
MF3-3950	Crimp Die - Size 16, 18-20AWG
MF3-3953	Crimp Die - Size 16, 16-18AWG
MF3-3975	Crimp Die - Size 16, 14-16AWG
MF3-3990	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