

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: HOUSING: THERMOPLASTIC, BLACK SEAL: SILICONE RUBBER CLIP: STAINLESS STEEL BOLD: STAINLESS STEEL

2. MODIFICATIONS: NORMAL DIA. WIRE SEAL; INTERFACE SEALS ARE BONDED TO PLUG HOUSING

- 3. 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
- 4. MATING PART: ARC12-24PX* RECEPTACLE (X = A,B,C,D KEYS; * = ALL MODIFICATIONS)

5. SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

CONTACT SIZE AND REAR SEAL WIRE RANGE:

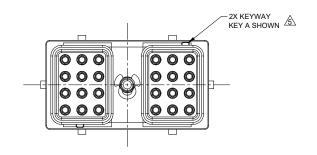
CONTACT	MIN. INSUL	MAX. INSUL	TYPICAL
SIZE	O.D.	O.D.	WIRE RANGE
16	2.54 mm		14 - 20 AWG
10	(.100 in)	(.134 in)	(2.0 - 0.5 mm ²)

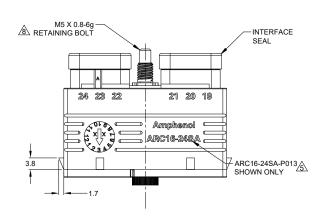
7. PLUG IS SUPPLIED WITH DUST CAP

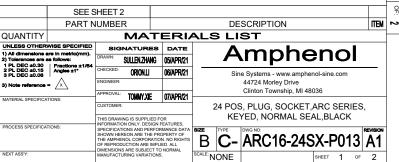
8. MATING TORQUE REQUIREMENT: 25 - 28 IN-LB [2.82 - 3.16 Nm]

9. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

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

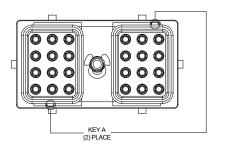


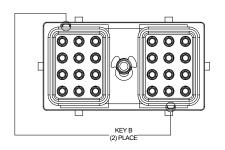


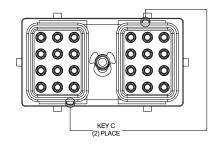


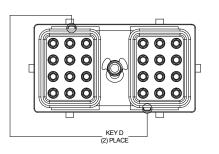
24 POS, PLUG, SOCKET, ARC SERIES, KEYED, NORMAL SEAL, BLACK

ARC16-24SX-P013

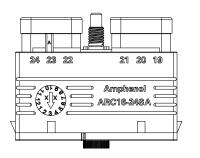


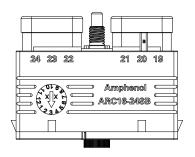


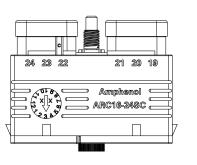


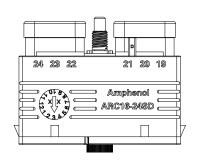


24 POS, PLUG, SOCKET, ARC SERIES, KEYED, NORMAL SEAL, BLACK









ARC16-24SX-P013	VARIANTS				
PART NUMBER	REF				
ARC16-24SA-P013	DRC16-24SA-P013				

ARC16-24SX-P013	VARIANTS
PART NUMBER	REF
ARC16-24SB-P013	DRC16-24SB-P013

ARC16-24SX-P013	VARIANTS
PART NUMBER	REF
ARC16-24SC-P013	DRC16-24SC-P013

ARC16-24SX-P013	VARIANTS
PART NUMBER	REF
ARC16-24SD-P013	DRC16-24SD-P013

ARIANTS REF RC16-24SX-P013 VARIANTS PART NUMBER REF ARC16-24SD-P013 DRC16-24SD-P013 ARC16-24SX-P013 DRC16-24SD-P013 DRC16-24SD-P013 PART NUMBER DESCRIPTION ITEM QUANTITY MATERIALS LIST UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(rmin). 2 PL DEC 24.0 B Angles 21.1 Angles 21.		1 20 1	19					24	23 2 01 0 x x x x x x x x x x x x x x x x x x	2)	21 20 Imphenol 3C16-24SD		7			DWG NO: ARC16-24SX-P013	
ARC16-24SX-P013 ARC16-24SX-P013 ARC16-24SD-P013 DESCRIPTION ITEM PART NUMBER DESCRIPTION ITEM PART NUMBER DESCRIPTION DESCRI																		
ARC16-24SD-P013 DRC16-24SD-P013 ARC16-24SD-P013 DRC16-24SD-P013 ARC16-24SD-P013 DRC16-24SD-P013 ARC16-24SD-P013 DRC16-24SD-P013 PART NUMBER DESCRIPTION ITEM OUANTITY INLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED ORANGE SULENZHANG OSAPRZ1 1 PL DEC 8 0.0 30 Facilions at 1764 2 PL DEC 8 0.10 16 Angles 21 1764 2 PL DEC 8 0.10 8 Angles 21 1764 2 PL DEC 8 0.10 8 Angles 21 1764 3 PL DEC 9.0 18 Angles 21 1764 ANGLES OTHERWISE SPECIFICATIONS: ORANGE SULENZHANG OSAPRZ1 ORANGE SULENZHANG OSAPRZ1 ORANGE SULENZHANG OSAPRZ1 ORANGE SULENZHANG OSAPRZ1 Sine Systems - www.amphenol-sine.com 44724 Mortey Drive Clinton Township, MI 48036 24 POS, PLUG, SOCKET, ARC SERIES, KEYED, NORMAL SEAL, BLACK BOOK NORMAL SEAL, BLACK BOO	AF	RIANTS						-	ARC16	-24SX-F	2013	VARIANTS					REV: A1	
ARC16-24SX-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SD-P013 DRC16-24SX-P013 DRC16-24SX-P		REF							PART	NUMBE	R	REF					_	١
ARC16-24SX-P013 PART NUMBER DESCRIPTION ITEM WATERIALS LIST UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 3) PL DEC 3.03 PL STACKORD \$1.04 3 PL DEC 3.03 PL DEC 4.03 PL STACKORD \$1.04 3 PROVINCE TOMMY XE TOMM	RC1	5-24SC-P013						Α	RC16-	24SD-P	013	DRC16-24SD-P013						
PART NUMBER DESCRIPTION TEM QUANTITY UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED SIGNATURES DATE DRAWNE SULENZHANG (05/APR/21 1 PL DEC 8 0.0 30 Facilions at 1/64 2 PL DEC 8 0.10 5 Angles at 1 1/64 2 PL DEC 8 0.10 8 SPECIFICATIONS: MATERIAL SPECIFICATIONS: WORK OF THE AMPIENDAL OPPOPERTY OF SHORMAND SIGNAM FEATURES, SHOWN HAVE DESIGNED FEATURES, SHOWN HAVE DAY DESIGNED FEATURES, SHOWN HAVE DESIGNED FEATURES, SHOWN HAVE DAY DESIGNED FEATURES, SHOWN HAVE DESIGNED FEATURES, SHOWN HAVE DAY DESIGNED FEATURES, SHOWN HAVE DESIGNED FEATURES, SHOWN HAVE DAY DAY DESIGNED FEATURES, SHOWN HAVE DAY DESIGNED FEATURES, SHOWN HA																		
QUANTITY UNLESS OTHERWISE SPECIFIED 1) All differences are as follows: 1) Toterances are as follows: 2) FL DEC 3 0.10 3) Note reference = MATERIAL SPECIFICATIONS: MAT				ARC16-2	24SX-P0	013											QF.	
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(rmi). 2) The Indian are in metric(rmi). 2) The Indian are in metric(rmi). 2) The Indian are in metric(rmi). 3) Hote reference = \(\int \) Angles 21 * 104 Ang				PART N	IUMBEI	R				DE	SCF	RIPTION				ITEM	2	
Total dimensions are in metric(mm). Total dimensions are as follows: SILSNAT OFFEES SILSNAT OFFEE		QUAN	ΓΙΤΥ			MA	ГΕΙ	R1/	٩LS	3 LI	ST	Γ						J
The Dec 30.30 Fractions ±1/64 CHECKED. ORIONLI 05/APR/21 Sine Systems - www.amphenol-sine.com 44724 Mortey Drive Clinton Township, MI 48036					SIG	NATURE	s D	ATE		Λ	n	anh	<u> </u>	$\overline{}$	ī			
2 PL DEC 40.16 Angles 21" CHECKED: ORIONU 06/APR/21 Sine Systems - www.amphenol-sine.com 44724 Morter Drive Clinton Township, Mil 48036 MATERIAL SPECIFICATIONS: ORIONNY DESIGN FEATURES, HOFGMANTON ORLY DESIGN FEATURES, SPECIFICATIONS: SPECIFICATIONS: SPECIFICATIONS: SPECIFICATIONS SPECIFICATION SPECIFICATION SPECIFICATION OR THE AMPRENOL CORPORATION NO RIGHTS OF REPRODUCTION ARE PROPERLY OF A PROCUCTION ARE PROPERLY OF A PROCUCTION ARE PREPLICABLY. PROCESS SPECIFICATIONS: SPECIFICATIONS: SPECIFICATION NO RIGHTS OF REPRODUCTION ARE PREPLICABLY. PROCESS SPECIFICATIONS: SPECIFICATIONS: SPECIFICATION NO RIGHTS OF REPRODUCTION ARE PREPLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO RIGHTS OF REPRODUCTION ARE PRICE ALL. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO RIGHTS OF REPUSION PROPERTY OF REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO RIGHTS OF REPUSION PROPERTY OF REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO RIGHTS OF REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO RIGHTS OF REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO RIGHTS OF REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION SPECIFICATION NO REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION NO REPUBLICABLY. PROPERTY OF REPUBLICABLY. PROCESS SPECIFICATIONS: SPECIFICATION NO REPUBLICABLY. PROCESS SPECIFICATION SPECIFICATION SPECIFICATION NO REPUBLICABLY. PROCESS SPECIFICATION SPECIFICATION NO REPUBLICABLY. PROCESS SPECIFICATION SPECIFICATION NO RE		2) Tolerano	es are a	s follows:	DRAWN:	SULLEN.ZHAN	G 05/A	PR/21			71 1	прп	CI	IO	I			
APPROVAL: TOMMY XIE 07/APR/21 CUSTOMER: THIS DRAWING IS SUPPLIED FOR KEYED, NORMAL SEAL, BLACK PROCESS SPECIFICATIONS: PROCESS SPECIFICATIONS: PROCESS SPECIFICATIONS: THIS DRAWING IS SUPPLIED FOR KEYED, NORMAL SEAL, BLACK SHOWN HAPERON ARE THE PROPERTY OF A SHOWN HEREON ARE THE PROPERTY OF THE AMPRIENO LORPORATION NO RIGHTS OF REPRODUCTION ARE MULED. ALL. BY THE AMPRICAL CORPORATION NO RIGHTS OF REPORTION FOR THE AMPRICA DATA OF THE A		2 PL DEC	±0.15	Angles ±1"	CHECKED:	ORION.LI	06/A	PR/21		Sin	e Sys	tems - www.am	phenol-sir	ne.com				
MATERIAL SPECIFICATIONS: CICITOME? CICITOME? THIS DRAWING IS SUPPLIED FOR KEYED, NORMAL SEAL, BLACK PROCESS SPECIFICATIONS: PROCESS SPECIFICATIONS: PROCESS SPECIFICATIONS: DECEMBER OF THE AMERICAL CORPORATION NO RIGHTS OF REPRODUCTION ARE PRICE ALL. THE AMERICAL CORPORATION NO RIGHTS OF REPRODUCTION ARE PRICE ALL. THE AMERICAL CORPORATION NO RIGHTS OF REPRODUCTION ARE PRICE ALL. THE AMERICAL CORPORATION NO RIGHTS OF REPORTS OF		3) Note ref	erence	- ×	ENGINEER:													
CUSTOMER: THIS DRAWING IS SUPPLIED FOR INFORMATION CNLY. DESIGN PEATURES, SPECIFICATIONS: PROCESS SPECIFICATIONS: SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPRIENOL CORPORATION NO RIGHTS OF REPRODUCTION ARE MPLEO. ALL. B C = ARC16-24SX-P013 A1		MATERIAL C	DECIEICA:	TIONE	APPROVAL:	TOMMY.XIE	07/A	PR/21			Clint	on Township, M	I 48036					
PROCESS SPECIFICATIONS: INFORMATION ONLY DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPRICOL CORPORATION IN OR IGNATES OF REPRODUCTION ARE IMPLED. ALL		MATERIAL S	FEGIFICA	HONS.	CUSTOMER	:				24 POS	S, PL	UG, SOCKI	ET,ARC	SERI	ES,	,		
SPECIFICATIONS AND PERFORMANCE DATA SIZE TYPE TOWN NO. SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION NO RIGHTS OF REPRODUCTION ARE MPLEO. ALL.										KE.	YED	, NORMAL :	SEAL,B	LACK				
NEXT ASSY: MANUFACTURING VARIATIONS. SCALE: NONE SHEET 2 OF 2				FIONS:	SPECIFICAT SHOWN HER THE AMPHE OF REPROD	FIONS AND PER REON ARE THE ENOL CORPORA DUCTION ARE IN	FORMANO PROPERT ATION, NO MPLIED, AL	E DATA Y OF RIGHTS	В	C-			4SX-	P01				
		NEXT ASS'Y:							SCALE:	IONE			SHEET	2	OF	2		

AT Series™ - Contact Size 16 Options

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	Part Number	Description			
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only)			
3	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)			

	Contact Removal Tools					
Part	Part Number	Description				
	ATRT-100	Used for removal of contacts for A Series™ products				
	AT11-310-1605	Contact Removal Tool, Plastic, Size 16				

	Sealing Plugs					
Part	Part Number	Description				
	A114017	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				
AT60-14-0144	Male Contact - Pin, Gold-plated	16	14-16	Stamped & Formed				
AT62-14-0144	Female Contact - Socket, Gold-plated	16	14-16	Stamped & Formed				
AT60-14-0122	Male Contact - Pin, Nickel-plated	16	14-16	Stamped & Formed				
AT62-14-0122	Female Contact - Socket, Nickel-plated	16	14-16	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				
AT60-16-0122	Male Contact - Pin, Nickel-plated	16	16-18	Stamped & Formed				
AT62-16-0122	Female Contact - Socket, Nickel-plated	16	16-18	Stamped & Formed				
AT60-16-0644	Male Contact - Pin, Gold-plated	16	18-20	Stamped & Formed				
AT62-16-0644	Female Contact - Socket, Gold-plated	16	18-20	Stamped & Formed				
AT60-16-0622	Male Contact - Pin, Nickel-plated	16	18-20	Stamped & Formed				
AT62-16-0622	Female Contact - Socket, Nickel-plated	16	18-20	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				
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				

Tooling - Stamped & Formed Contacts		
Part	Part Number	Description
	MFX-3950	Crimp Die - Size 16, 18-20AWG (S&F contacts only)
	MFX-3953	Crimp Die - Size 16, 16-18AWG (S&F contacts only)
	MFX-3975	Crimp Die - Size 16, 14-16AWG (S&F contacts only)
	MFX-3990	Crimp Die - Size 16, 20-22AWG (S&F contacts only)
	ATT-16-00	Hand Crimp Tool - Size 16, 14-16AWG (S&F contacts only)
	ATT-16-01	Hand Crimp Tool - Size 16, 18-20AWG (\$&F contacts only)
	ATT-1612-03	Hand Crimp Tool - Size 16, 20-22AWG (S&F contacts only)

Amphenol Sine Systems 44724 Morley Drive Clinton Township, MI 48036 USA www.amphenol-sine.com 03/2022