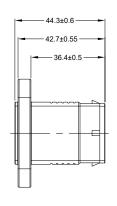
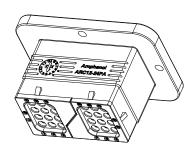
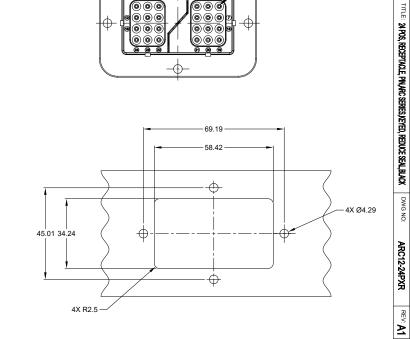


Amphenol ARC12-24PA

-3.8







REVISIONS

DESCRIPTION

RELEASE NEW DRAWING

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REV

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ECO

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APPR

SH:

BY

SULLEN TOMMY

DATE

05/APR/21

SEAL, YELLOW

REDUCE

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: HOUSING: THERMOPLASTIC, BLACK SEAL: SILICONE RUBBER

THREADED INSERT: STAINLESS STEEL 2. MODIFICATIONS: FLANGE MOUNT; REDUCE DIA. WIRE SEAL

- 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: ARC16-24SX* PLUG (X = A,B,C,D KEYS ; * = ALL MODIFICATIONS)

5 SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

6 CONTACT SIZE AND REAR SEAL WIRE RANGE:

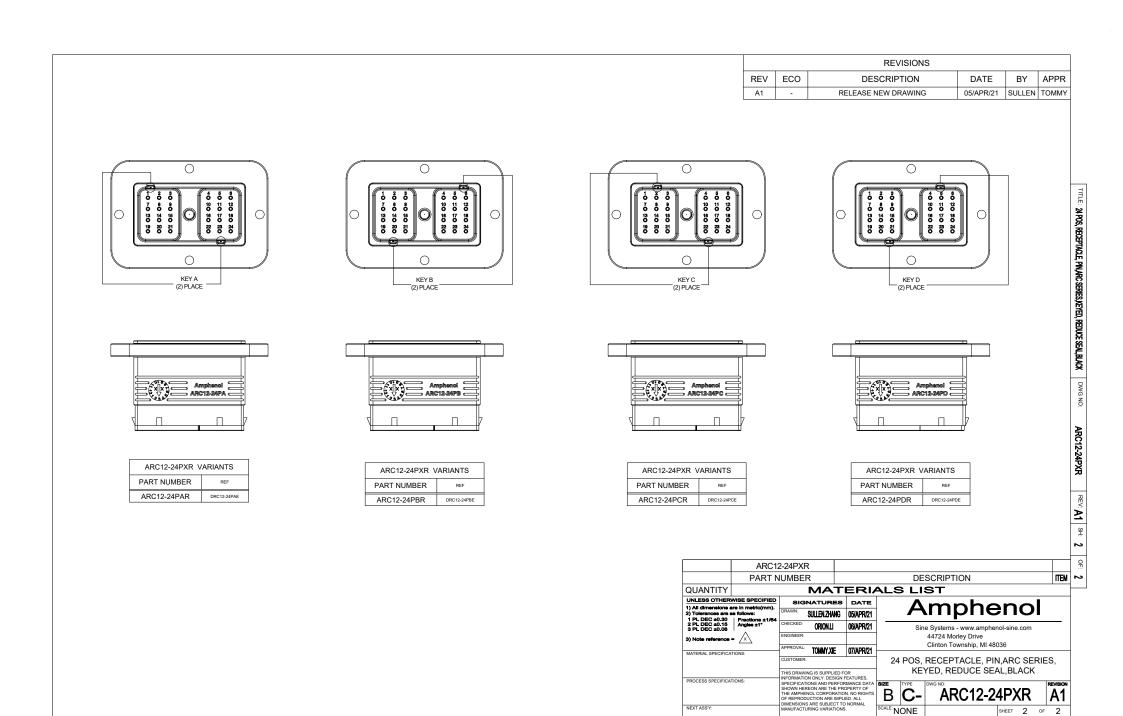
	CONTACT	CONTACT MIN. INSUL		TYPICAL
	SIZE	O.D.	O.D.	WIRE RANGE
16		1.35 mm		14 - 20 AWG
		(.053 in)	(.120 in)	(2.0 - 0.5 mm ²)

7. RECEPTACLE IS SUPPLIED WITH DUST CAP(NOT SHOWN).

RECOMMENDED SCREW: 8-32 [M4] TORQUE: 20 - 25 IN-LB [2.26 - 2.82 Nm]

9. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

	SEE S	SHEET 2						
	PART N	NUMBER	₹	DESCRIPTION			ITEM	
QUANTITY			MAI	[ERI	ALS L	IST		
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 Fractions ±1/64		SIGN	NATURE	S DATE	Amphonol		anal	
		DRAWN:	SULLEN.ZHANG	3 05/APR/21	Amphenol			
2 PL DEC ±0.15 3 PL DEC ±0.08	Angles ±1°	CHECKED:	ORION.LI	06/APR/21	Sine Systems - www.amphenol-sine.com			
3) Note reference =		ENGINEER:			44724 Morley Drive			
		APPROVAL:	TOMMYXIE	07/APR/21	Clinton Township, MI 48036			
		CUSTOMER:				, RECEPTACLE, P		ES,
		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY, DESIGN FEATURES.		KEYED, REDUCE SEAL,BLACK				
		SPECIFICATION SHOWN HERE THE AMPHEN OF REPRODU	ONS AND PERF EON ARE THE F	FORMANCE DATA PROPERTY OF TION. NO RIGHTS IPLIED. ALL	B C-	ARC12-2	24PXR	A1
		MANUFACTURING VARIATIONS.		SCALE: NONE		SHEET 1 OF	2	



NEXT ASS'Y:

SCALE: NONE

SHEET 2 OF 2

AT Series™ - Contact Size 16 Options

Machined Contacts, Sockets & Pins						
Part Number	Description		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	AT62-201-1631-22 Female Contact - Socket, Gold-plated		22-24	Machined		
AT60-202-16141-22	T60-202-16141-22 Male Contact - Pin, Nickel-plated		22-24	Machined		
AT62-201-16141-22	AT62-201-16141-22 Female Contact - Socket, Nickel-plated		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		
	A114017	Sealing Plug, Size 16, White		

Stamped & Formed Contacts, Sockets & Pins						
Part Number	Description	Size	AWG	Type		
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 (S&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 09/2021

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

ARC12-24PAR