

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:
HOUSING: THERMOPLASTIC, BLACK
SEAL: SILICONE RUBBER
THREADED INSERT: STAINLESS STEEL
- MODIFICATIONS: FLANGE MOUNT;
NORMAL DIA. WIRE SEAL
- 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 (1M 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: ARC16-24SX* PLUG
(X = A,B,C,D KEYS ; * = ALL MODIFICATIONS)

SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

CONTACT SIZE AND REAR SEAL WIRE RANGE:

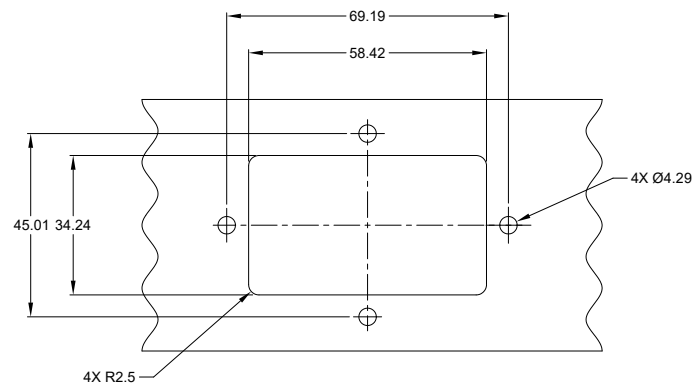
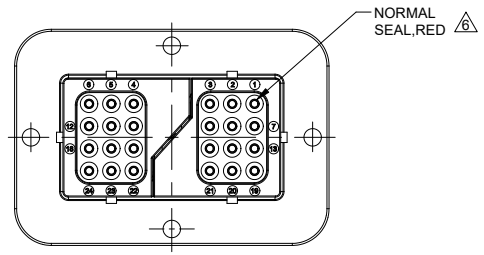
CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE
16	2.54 mm (.100 in)	3.40 mm (.134 in)	14 - 20 AWG (2.0 - 0.5 mm ²)

7. RECEPTACLE IS SUPPLIED WITH DUST CAP

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

9. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

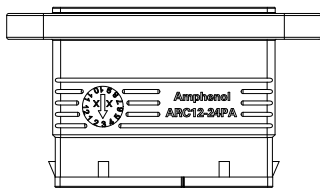
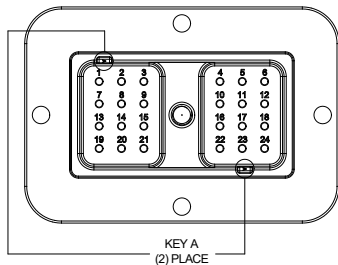
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	05/APR/21	SULLEN	TOMMY



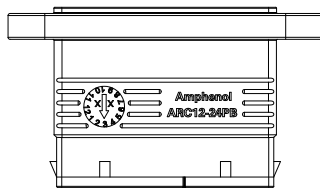
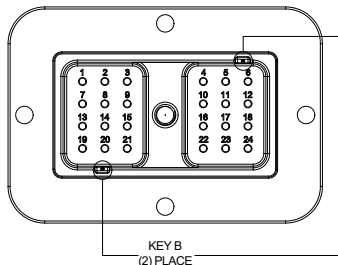
SEE SHEET 2		DESCRIPTION		ITEM
PART NUMBER		MATERIALS LIST		
QUANTITY		SIGNATURES		DATE
UNLESS OTHERWISE SPECIFIED		DRAWN: SULLEN,ZHANG		05/APR/21
1) All dimensions are in metric(mm).		CHECKED: ORION,LI		06/APR/21
2) Tolerances are as follows:		ENGINEER:		
1 PL DEC ±0.30		APPROVAL: TOMMY,XIE		07/APR/21
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 =		PROCESS SPECIFICATIONS:		
		NEXT ASSY:		
		SIZE		TYPE
		B C-		DWG NO:
		SCALE: NONE		REVISION
				A1
				SHEET 1 OF 2

TITLE: 24 POS, RECEPTACLE, PIN,ARC SERIES,KEYED, NORMAL SEAL,BLACK
DWG NO: ARC12-24PX
REV: A1
SH: 1
OF: 2

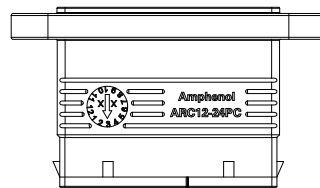
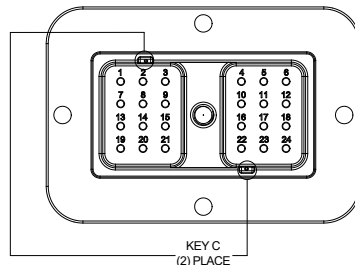
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	05/APR/21	SULLEN	TOMMY



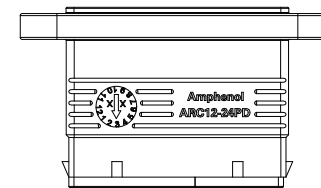
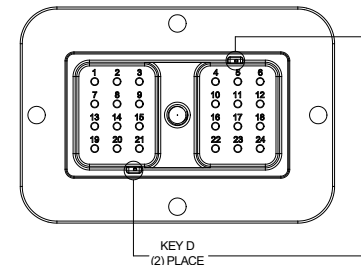
ARC12-24PX VARIANTS	
PART NUMBER	REF
ARC12-24PA	DRC12-24PA




ARC12-24PX VARIANTS	
PART NUMBER	REF
ARC12-24PB	DRC12-24PB



ARC12-24PX VARIANTS	
PART NUMBER	REF
ARC12-24PC	DRC12-24PC



ARC12-24PX VARIANTS	
PART NUMBER	REF
ARC12-24PD	DRC12-24PD

ARC12-24PX		DESCRIPTION		ITEM
PART NUMBER				
QUANTITY	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 3 PL DEC ±0.08 3) Note reference = 		SIGNATURES	DATE	<div>Amphenol</div> <div>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</div> <div>24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, NORMAL SEAL,BLACK</div>
MATERIAL SPECIFICATIONS:		DRAWN: SULLEN,ZHANG	05/APR/21	
		CHECKED: ORION,LI	06/APR/21	
		ENGINEER:		
		APPROVAL: TOMMY,XIE	07/APR/21	
PROCESS SPECIFICATIONS:		CUSTOMER:		<div>ARC12-24PX</div> <div>SIZE: B TYPE: C- SCALE: NONE</div>
		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:		REVISION A1		
				SHEET 2 OF 2

TITLE: 24POS, RECEPTACLE, PIN,ARC SERIES,KEYED, NORMAL SEAL,BLACK

DWG NO:

ARC12-24PX



REV: A1




SH: 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)
	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 (\$&F contacts only)
	MFX-3953	Crimp Die - Size 16, 16-18AWG (\$&F contacts only)
	MFX-3975	Crimp Die - Size 16, 14-16AWG (\$&F contacts only)
	MFX-3990	Crimp Die - Size 16, 20-22AWG (\$&F contacts only)
	ATT-16-00	Hand Crimp Tool - Size 16, 14-16AWG (\$&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 (\$&F contacts only)

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