

NOTES: UNLESS OTHERWISE SPECIFIED

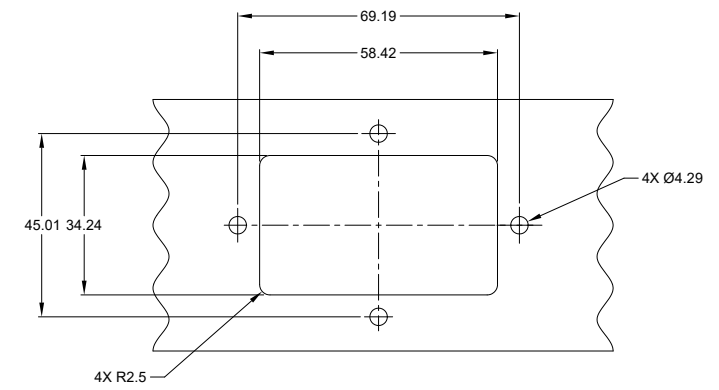
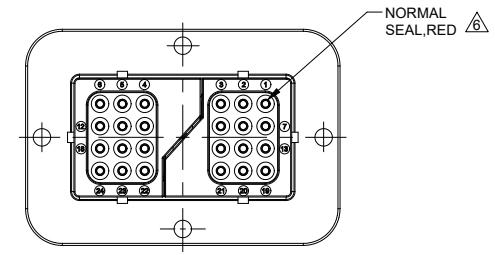
1. MATERIAL:
HOUSING: THERMOPLASTIC, BLACK
SEAL: SILICONE RUBBER
THREADED INSERT: STAINLESS STEEL
2. MODIFICATIONS: FLANGE MOUNT;
NORMAL DIA. WIRE SEAL
3. SPECIFICATIONS:
3.1 CURRENT RATING: 13 AMPS
3.2 OPERATING TEMPERATURE: -55°C TO +125°C
3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC
3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C
3.5 MOISTURE RESISTANCE:
IP68 (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
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 SIZE | MIN. INSUL O.D. (.100 in) | MAX. INSUL O.D. (.134 in) | TYPICAL WIRE RANGE (2.0 - 0.5 mm ²) |
|--------------|------------------------------|------------------------------|--|
| 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
8. RECOMMENDED SCREW: 8-32 [M4]
TORQUE: 20 - 25 IN-LB [2.26 - 2.82 Nm]
9. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

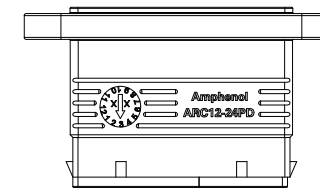
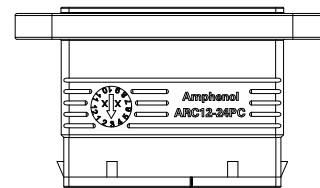
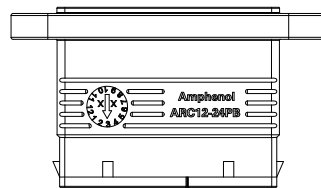
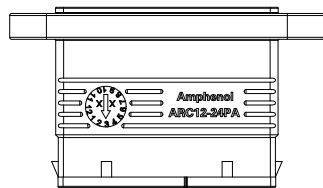
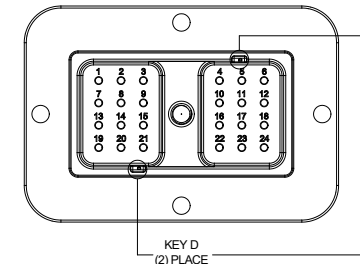
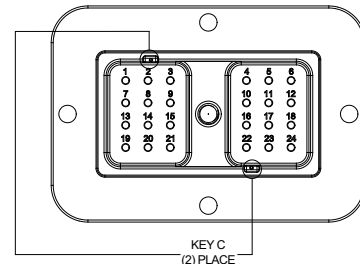
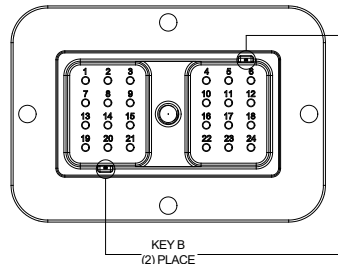
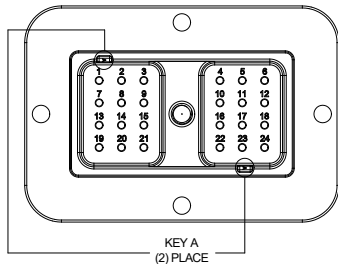
| REVISIONS | | | | | |
|-----------|-----|---------------------|-----------|--------|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | RELEASE NEW DRAWING | 05/APR/21 | SULLEN | TOMMY |



| SEE SHEET 2 | | DESCRIPTION | | ITEM |
|---|-------------|--|---------------------------|--|
| QUANTITY | PART NUMBER | MATERIALS LIST | | |
| <p>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°</p> | | | | |
| SIGNATURES | | DATE | | |
| DRAWN: SULLEN,ZHANG | | 05/APR/21 | | |
| CHECKED: ORION,LI | | 06/APR/21 | | |
| ENGINEER: | | CUSTOMER: | | |
| APPROVAL: TOMMY,XIE | | 07/APR/21 | | |
| 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: | | SCALE: NONE | | |
| NEXT ASSY: | | SHEET 1 OF 2 | | |
| | | <p>Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> | | <p>24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, NORMAL SEAL,BLACK</p> |
| | | <p>SIZE: B C-</p> | <p>DWG NO: ARC12-24PX</p> | <p>REVISION: A1</p> |

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 |

| ARC12-24PY VARIANTS | |
|---------------------|------------|
| PART NUMBER | REF |
| ARC12-24PB | DRC12-24PB |

| ARC12-24PZ VARIANTS | |
|---------------------|------------|
| PART NUMBER | REF |
| ARC12-24PC | DRC12-24PC |

| ARC12-24PA VARIANTS | |
|---------------------|------------|
| PART NUMBER | REF |
| ARC12-24PD | DRC12-24PD |

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

DWG NO:

ARC12-24PX

REV: A1

SH: 2

OF: 2

| ARC12-24PX | | DESCRIPTION | | ITEM |
|---|-------------|--|------|--------------|
| QUANTITY | PART NUMBER | | | |
| <p>MATERIALS LIST</p> <p>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°</p> <p>3) Note reference = </p> | | | | |
| SIGNATURES | | DATE | | |
| DRAWN: SULENZHANG | | 05/APR/21 | | |
| CHECKED: ORIONLI | | 06/APR/21 | | |
| ENGINEER: | | | | |
| APPROVAL: TOMMY.XIE | | 07/APR/21 | | |
| CUSTOMER: | | | | |
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| PROCESS SPECIFICATIONS: | | | | |
| NEXT ASSY: | | | | |
| <p>Amphenol</p> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p>24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, NORMAL SEAL,BLACK</p> | | SIZE | TYPE | DWG NO: |
| | | B | C- | ARC12-24PX |
| | | SCALE: NONE | | REVISION A1 |
| | | | | 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) |
|  | 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
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