

NOTES: UNLESS OTHERWISE SPECIFIED

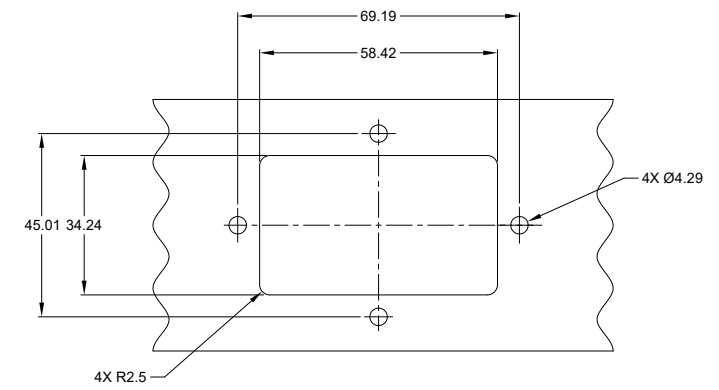
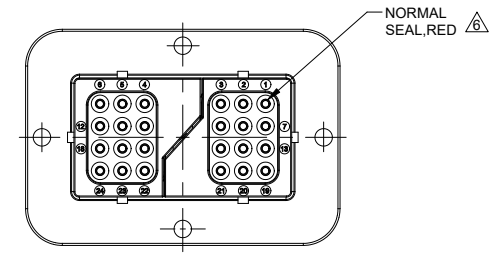
1. MATERIAL:
HOUSING: THERMOPLASTIC, BLACK
SEAL: SILICONE RUBBER
THREADED INSERT: STAINLESS STEEL
2. MODIFICATIONS: FLANGE MOUNT;
NORMAL DIA. WIRE SEAL
3. SPECIFICATIONS:
3.1 CURRENT RATING: 13 AMPS
3.2 OPERATING TEMPERATURE: -55°C TO +125°C
3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS 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

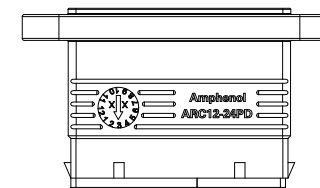
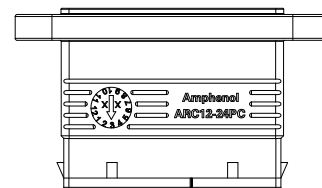
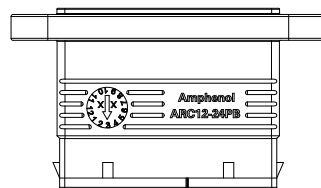
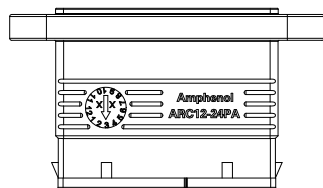
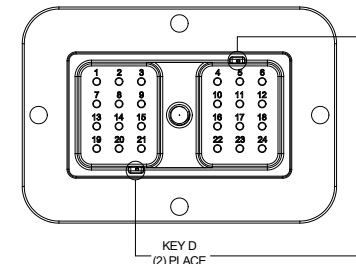
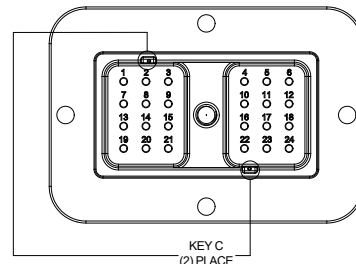
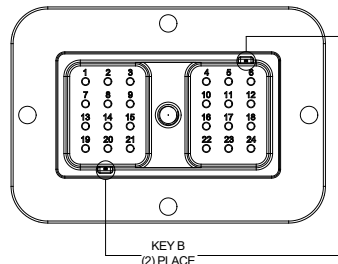
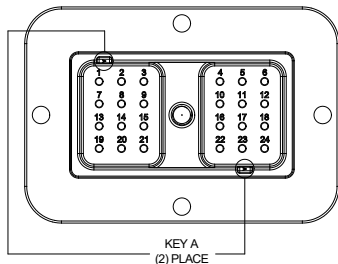
| REVISIONS | | | | | |
|-----------|-----|---------------------|-----------|--------|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | RELEASE NEW DRAWING | 05/APR/21 | SULLEN | TOMMY |



| 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 Fractions ±1/64 2 PL DEC ±0.15 Angles ±1° 3 PL DEC ±0.08</p> | | | | |
| SIGNATURES | | DATE | | |
| DRAWN: SULLEN,ZHANG | | 05/APR/21 | | |
| CHECKED: ORION,LI | | 06/APR/21 | | |
| ENGINEER: | | | | |
| APPROVAL: TOMMY,XIE | | 07/APR/21 | | |
| MATERIAL SPECIFICATIONS: | | CUSTOMER: | | |
| PROCESS 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. | | |
| NEXT ASSY: | | SCALE: NONE | | |
| | | SIZE | TYPE | DWG NO. |
| | | B C- | ARC12-24PX | A1 |
| | | SINE SYSTEMS - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036 | | REVISION |
| | | 24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, NORMAL SEAL,BLACK | | |
| | | 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 |
|--|-------------|---|--|--|
| QUANTITY | PART NUMBER | | | |
| MATERIALS LIST | | | | |
| 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 DRAWN: SULENZHANG CHECKED: ORIONLI ENGINEER: APPROVAL: TOMMY.XIE CUSTOMER: | | DATE 05/APR/21 06/APR/21 07/APR/21 |
| MATERIAL SPECIFICATIONS: PROCESS SPECIFICATIONS: NEXT ASSY: | | Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036 24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, NORMAL SEAL, BLACK | | |
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| SCALE: NONE | | SHEET 2 OF 2 | | |

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

DWG NO:

ARC12-24PX

REV: A1

SH: 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 | |
|-------------------------------------|-------------------------------------|
| MFX-3950 | Crimp Die - Size 16, 18-20AWG |
| MFX-3953 | Crimp Die - Size 16, 16-18AWG |
| MFX-3975 | Crimp Die - Size 16, 14-16AWG |
| MFX-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 |