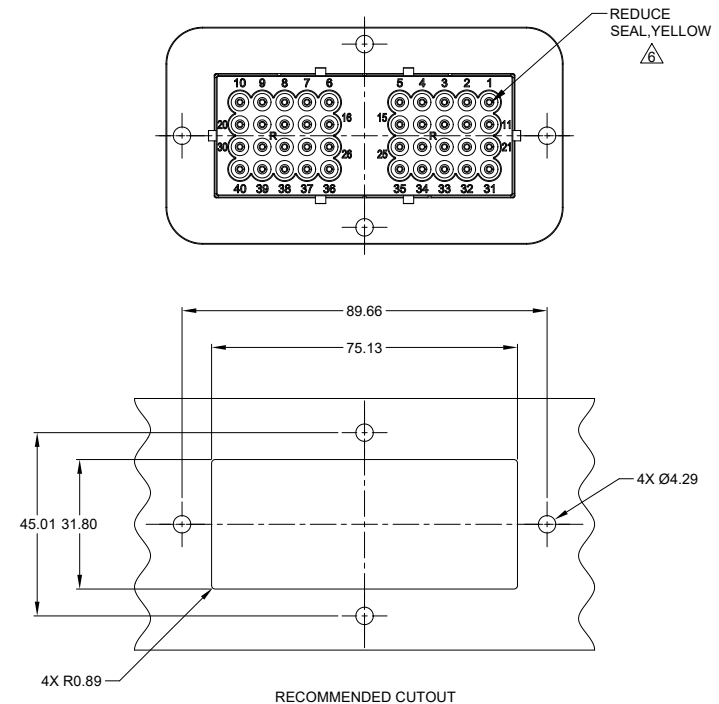
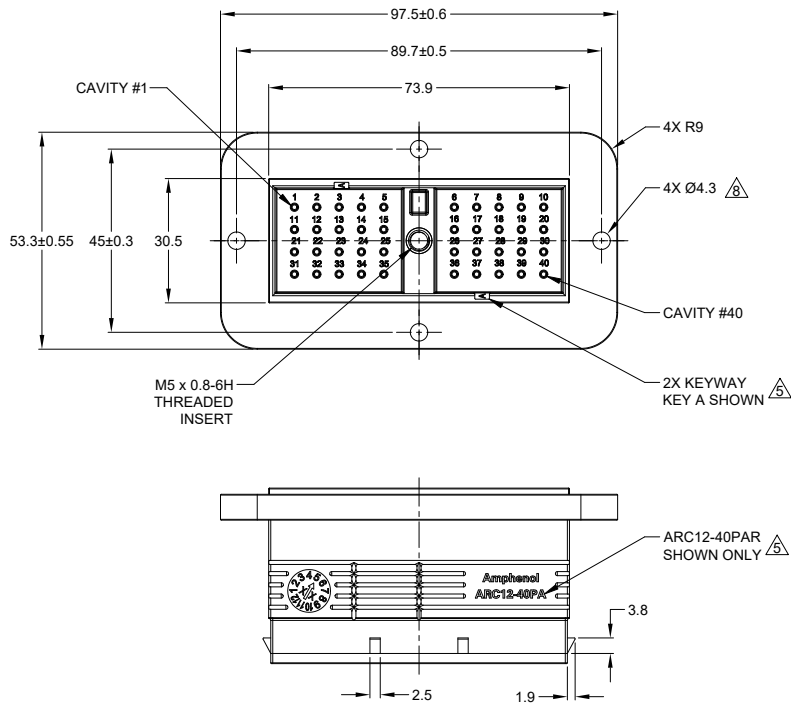


| REVISIONS |     |                     |           |        |       |
|-----------|-----|---------------------|-----------|--------|-------|
| REV       | ECO | DESCRIPTION         | DATE      | BY     | APPR  |
| A1        | -   | RELEASE NEW DRAWING | 05/APR/21 | SULLEN | TOMMY |



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
HOUSING: THERMOPLASTIC, BLACK  
SEAL: SILICONE RUBBER  
THREADED INSERT: STAINLESS STEEL
- MODIFICATIONS: FLANGE MOUNT;  
REDUCE 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: ARC18-40SX\* PLUG  
( X = A,B,C,D KEYS ; \* = ALL MODIFICATIONS)

SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

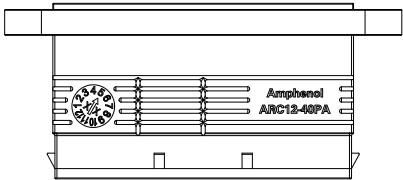
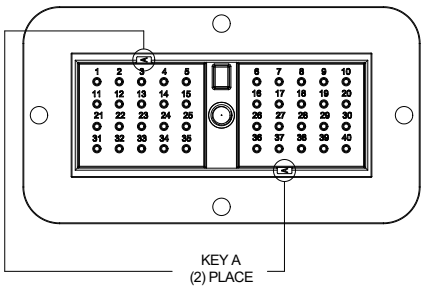
CONTACT SIZE AND REAR SEAL WIRE RANGE:

| CONTACT<br>SIZE | MIN. INSUL<br>O.D.   | MAX. INSUL<br>O.D.   | TYPICAL<br>WIRE RANGE                       |
|-----------------|----------------------|----------------------|---------------------------------------------|
| 16              | 1.35 mm<br>(.053 in) | 3.05 mm<br>(.120 in) | 14 - 20 AWG<br>(2.0 - 0.5 mm <sup>2</sup> ) |

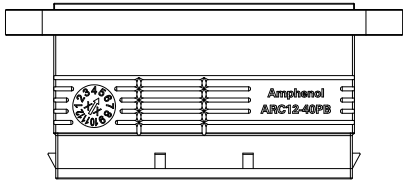
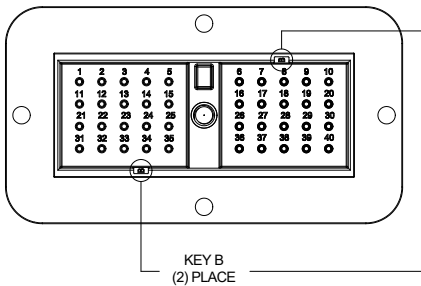
- RECEPTACLE IS SUPPLIED WITH DUST CAP
- RECOMMENDED SCREW: 8-32 [ M4 ]  
TORQUE: 20 - 25 IN-LB [ 2.26 - 2.82 Nm ]
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

| SEE SHEET 2                                                    |             | DESCRIPTION                                                                                                                                                                                                                                                          |  |
|----------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| QUANTITY                                                       | PART NUMBER | ITEM                                                                                                                                                                                                                                                                 |  |
| MATERIALS LIST                                                 |             |                                                                                                                                                                                                                                                                      |  |
| UNLESS OTHERWISE SPECIFIED                                     |             | SIGNATURES                                                                                                                                                                                                                                                           |  |
| 1) All dimensions are in metric(mm).                           |             | DATE                                                                                                                                                                                                                                                                 |  |
| 2) Tolerances are as follows:                                  |             | DRAWN: SULLEN, ZHANG                                                                                                                                                                                                                                                 |  |
| 1 PL DEC ±0.30                                                 |             | 05/APR/21                                                                                                                                                                                                                                                            |  |
| 2 PL DEC ±0.15                                                 |             | ENGINEER: ORION LI                                                                                                                                                                                                                                                   |  |
| 3 PL DEC ±0.08                                                 |             | 06/APR/21                                                                                                                                                                                                                                                            |  |
| 3) Note reference =                                            |             | APPROVAL: TOMMY XIE                                                                                                                                                                                                                                                  |  |
| MATERIAL SPECIFICATIONS:                                       |             | 07/APR/21                                                                                                                                                                                                                                                            |  |
| PROCESS SPECIFICATIONS:                                        |             | CUSTOMER:                                                                                                                                                                                                                                                            |  |
| NEXT ASSY:                                                     |             | 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. |  |
| SIZE                                                           |             | TYPE                                                                                                                                                                                                                                                                 |  |
| B                                                              |             | C-                                                                                                                                                                                                                                                                   |  |
| SCALE                                                          |             | NONE                                                                                                                                                                                                                                                                 |  |
| DWG NO:                                                        |             | REVISION                                                                                                                                                                                                                                                             |  |
| 44724 Morley Drive                                             |             | ARC12-40PXR                                                                                                                                                                                                                                                          |  |
| Clinton Township, MI 48036                                     |             | A1                                                                                                                                                                                                                                                                   |  |
| 40 POS, RECEPTACLE, PIN, ARC SERIES, KEYED, REDUCE SEAL, BLACK |             | SHEET 1 OF 2                                                                                                                                                                                                                                                         |  |

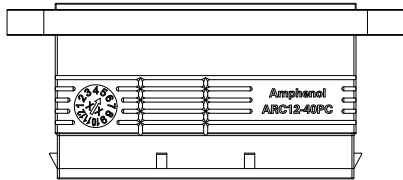
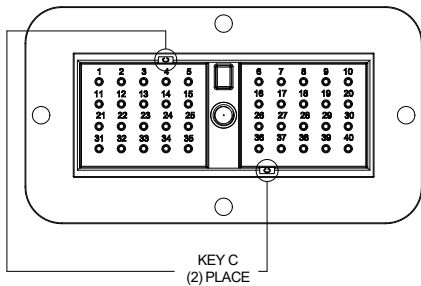
| REVISIONS |     |                     |           |        |       |
|-----------|-----|---------------------|-----------|--------|-------|
| REV       | ECO | DESCRIPTION         | DATE      | BY     | APPR  |
| A1        | -   | RELEASE NEW DRAWING | 05/APR/21 | SULLEN | TOMMY |



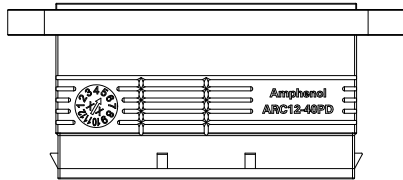
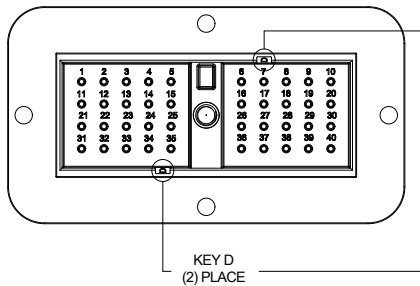
| ARC12-40PXR VARIANTS |             |
|----------------------|-------------|
| PART NUMBER          | REF         |
| ARC12-40PAR          | DRC12-40PAE |



| ARC12-40PXR VARIANTS |             |
|----------------------|-------------|
| PART NUMBER          | REF         |
| ARC12-40PBR          | DRC12-40PBE |



| ARC12-40PXR VARIANTS |             |
|----------------------|-------------|
| PART NUMBER          | REF         |
| ARC12-40PCR          | DRC12-40PCE |



| ARC12-40PXR VARIANTS |             |
|----------------------|-------------|
| PART NUMBER          | REF         |
| ARC12-40PDR          | DRC12-40PDE |

|                                                                                                                                                                                                                                                                                              |                |                                                                                                                                                                                                                                                                      |             |                                                                                                                                                                                                                                                         |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| ARC12-40PXR                                                                                                                                                                                                                                                                                  |                | DESCRIPTION                                                                                                                                                                                                                                                          |             | ITEM                                                                                                                                                                                                                                                    |          |
| PART NUMBER                                                                                                                                                                                                                                                                                  |                |                                                                                                                                                                                                                                                                      |             |                                                                                                                                                                                                                                                         |          |
| QUANTITY                                                                                                                                                                                                                                                                                     | MATERIALS LIST |                                                                                                                                                                                                                                                                      |             |                                                                                                                                                                                                                                                         |          |
| <b>UNLESS OTHERWISE SPECIFIED</b><br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1 PL DEC $\pm 0.30$<br>2 PL DEC $\pm 0.15$<br>3 PL DEC $\pm 0.08$<br>3) Note reference =  |                | <b>SIGNATURES</b>                                                                                                                                                                                                                                                    | <b>DATE</b> | <div><b>Amphenol</b></div> <div>Sine Systems - <a href="http://www.amphenol-sine.com">www.amphenol-sine.com</a><br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div> <div>40 POS, RECEPTACLE, PIN,ARC SERIES,<br/>KEYED, REDUCE SEAL,BLACK</div> |          |
| <div><div>1 PL DEC <math>\pm 0.30</math></div><div>2 PL DEC <math>\pm 0.15</math></div><div>3 PL DEC <math>\pm 0.08</math></div></div> <div>Fraction <math>\pm 1/64</math><br/>Angles <math>\pm 1^\circ</math></div>                                                                         |                | DRAWN: <b>SULLEN,ZHANG</b>                                                                                                                                                                                                                                           | 05/APR/21   |                                                                                                                                                                                                                                                         |          |
|                                                                                                                                                                                                                                                                                              |                | CHECKED: <b>ORION,LI</b>                                                                                                                                                                                                                                             | 06/APR/21   |                                                                                                                                                                                                                                                         |          |
|                                                                                                                                                                                                                                                                                              |                | ENGINEER:                                                                                                                                                                                                                                                            |             |                                                                                                                                                                                                                                                         |          |
|                                                                                                                                                                                                                                                                                              |                | APPROVAL: <b>TOMMY,XIE</b>                                                                                                                                                                                                                                           | 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:                                                                                                                                                                                                                                                                                   | SIZE           |                                                                                                                                                                                                                                                                      | TYPE        | DWG NO:                                                                                                                                                                                                                                                 | REVISION |
|                                                                                                                                                                                                                                                                                              | B              |                                                                                                                                                                                                                                                                      | C-          | ARC12-40PXR                                                                                                                                                                                                                                             | A1       |
| SCALE: NONE                                                                                                                                                                                                                                                                                  |                | 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 (\$&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) |

**Amphenol Sine Systems**  
 44724 Morley Drive  
 Clinton Township, MI 48036 USA  
[www.amphenol-sine.com](http://www.amphenol-sine.com)  
 09/2021