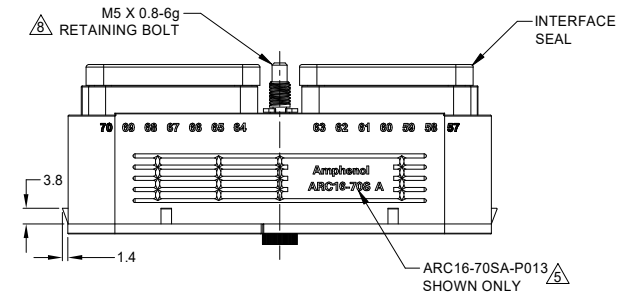
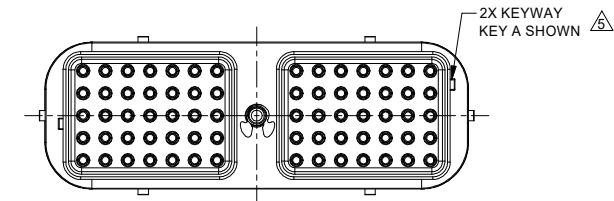
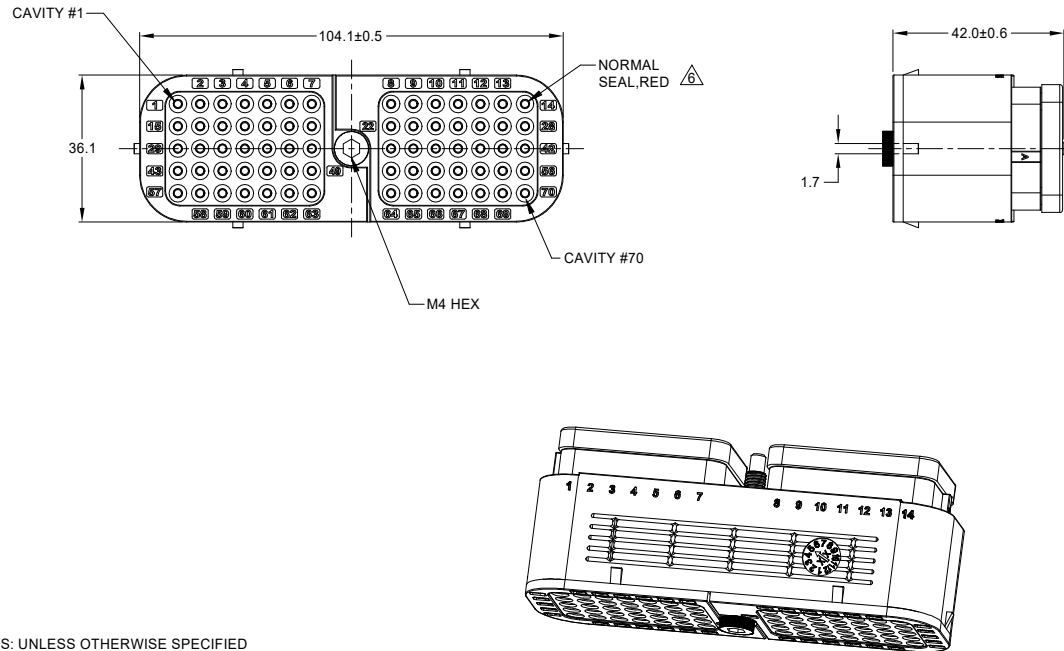


| REVISIONS |     |                     |           |       |       |
|-----------|-----|---------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION         | DATE      | BY    | APPR  |
| A1        | -   | RELEASE NEW DRAWING | 12/JUL/22 | LOUIE | TOMMY |



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
HOUSING: THERMOPLASTIC, BLACK SEAL:  
SILICONE RUBBER  
CLIP: STAINLESS STEEL  
BOLT: STAINLESS STEEL
- MODIFICATIONS: NORMAL DIA. WIRE SEAL;  
INTERFACE SEALS ARE BONDED TO  
PLUG HOUSING
- 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
- MATING PART: ARC12-70PX\* RECEPTACLE  
(\* 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<br>SIZE | MIN. INSUL<br>O.D.   | MAX. INSUL<br>O.D.   | TYPICAL<br>WIRE RANGE                       |
|-----------------|----------------------|----------------------|---------------------------------------------|
| 16              | 2.54 mm<br>(.100 in) | 3.40 mm<br>(.134 in) | 14 - 20 AWG<br>(2.0 - 0.5 mm <sup>2</sup> ) |

7. PLUG IS SUPPLIED WITH DUST CAP

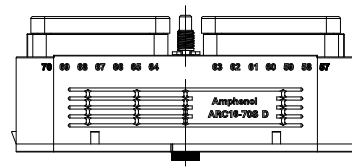
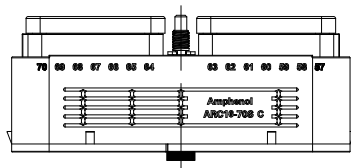
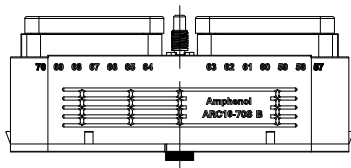
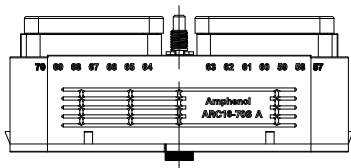
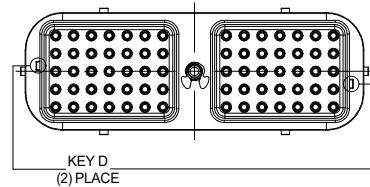
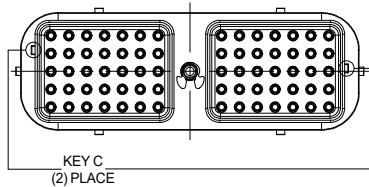
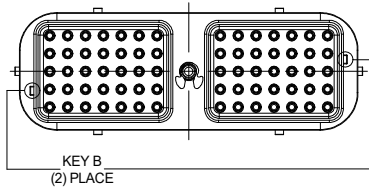
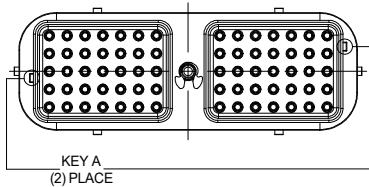
8. MATING TORQUE REQUIREMENT: 25 - 28 IN-LB [ 2.82 - 3.16 Nm ]

9. 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). |             | DRAWN:                                                                                                                                                                                                                                                               | LOUIE YIN |
| 2) Tolerances are as follows:        |             | CHECKED:                                                                                                                                                                                                                                                             | ORION LI  |
| 1 PL DEC ±0.30                       |             | ENGINEER:                                                                                                                                                                                                                                                            |           |
| 2 PL DEC ±0.15                       |             | APPROVAL:                                                                                                                                                                                                                                                            | TOMMY XIE |
| 3 PL DEC ±0.08                       |             | CUSTOMER:                                                                                                                                                                                                                                                            |           |
| 3) Note reference =                  |             | 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. |           |
| MATERIAL SPECIFICATIONS:             |             | SCALE                                                                                                                                                                                                                                                                |           |
| PROCESS SPECIFICATIONS:              |             | NONE                                                                                                                                                                                                                                                                 |           |
| NEXT ASSY:                           |             | SHEET 1 OF 2                                                                                                                                                                                                                                                         |           |
|                                      |             | DATE                                                                                                                                                                                                                                                                 |           |
|                                      |             | 12/JUL/22                                                                                                                                                                                                                                                            |           |
|                                      |             | 13/JUL/22                                                                                                                                                                                                                                                            |           |
|                                      |             | 14/JUL/22                                                                                                                                                                                                                                                            |           |
|                                      |             | Amphenol                                                                                                                                                                                                                                                             |           |
|                                      |             | Sine Systems - www.amphenol-sine.com                                                                                                                                                                                                                                 |           |
|                                      |             | 44724 Morley Drive                                                                                                                                                                                                                                                   |           |
|                                      |             | Clinton Township, MI 48036                                                                                                                                                                                                                                           |           |
|                                      |             | 70 POS, PLUG, SOCKET, ARC SERIES, KEYED, NORMAL SEAL, BLACK                                                                                                                                                                                                          |           |
|                                      |             | SIZE                                                                                                                                                                                                                                                                 |           |
|                                      |             | B C- ARC16-70SX-P013                                                                                                                                                                                                                                                 |           |
|                                      |             | TYPE                                                                                                                                                                                                                                                                 |           |
|                                      |             | DWG NO:                                                                                                                                                                                                                                                              |           |
|                                      |             | A1                                                                                                                                                                                                                                                                   |           |
|                                      |             | REVISION                                                                                                                                                                                                                                                             |           |

TITLE: 70 POS, PLUG, SOCKET, ARC SERIES, KEYED, NORMAL SEAL, BLACK  
DWG NO.: ARC16-70SX-P013  
REV: A1  
SH: 1  
OF: 2

| REVISIONS |     |                     |           |       |       |
|-----------|-----|---------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION         | DATE      | BY    | APPR  |
| A1        | -   | RELEASE NEW DRAWING | 12/JUL/22 | LOUIE | TOMMY |



| ARC16-24SX-P013 VARIANTS |                 |
|--------------------------|-----------------|
| PART NUMBER              | REF             |
| ARC16-70SA-P013          | DRC16-70SA-P013 |

| ARC16-24SX-P013 VARIANTS |                 |
|--------------------------|-----------------|
| PART NUMBER              | REF             |
| ARC16-70SB-P013          | DRC16-70SB-P013 |

| ARC16-24SX-P013 VARIANTS |                 |
|--------------------------|-----------------|
| PART NUMBER              | REF             |
| ARC16-70SC-P013          | DRC16-70SC-P013 |

| ARC16-24SX-P013 VARIANTS |                 |
|--------------------------|-----------------|
| PART NUMBER              | REF             |
| ARC16-70SD-P013          | DRC16-70SD-P013 |

|                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                                                              |  | ARC16-70SX-P013                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                           |  |
|                                                                                                                                                                                                                                                                                              |  | PART NUMBER                                                                                                                                                                                                                                                          |  | DESCRIPTION |  | ITEM                                                                                                                                                                                                      |  |
| 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 - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div> <div>70 POS, PLUG, SOCKET,ARC SERIES,<br/>KEYED, NORMAL SEAL,BLACK</div> |  |
|                                                                                                                                                                                                                                                                                              |  | DRAWN: LOUIE YN                                                                                                                                                                                                                                                      |  | 12/JUL/22   |  |                                                                                                                                                                                                           |  |
|                                                                                                                                                                                                                                                                                              |  | CHECKED: ORION LI                                                                                                                                                                                                                                                    |  | 13/JUL/22   |  |                                                                                                                                                                                                           |  |
|                                                                                                                                                                                                                                                                                              |  | ENGINEER:                                                                                                                                                                                                                                                            |  |             |  |                                                                                                                                                                                                           |  |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                                                                     |  | APPROVAL: TOMMY XIE                                                                                                                                                                                                                                                  |  | 14/JUL/22   |  | <div><b>SIZE</b> <b>B</b> <b>C- ARC16-70SX-P013</b> <b>REVISION</b> <b>A1</b></div> <div>SCALE NONE</div>                                                                                                 |  |
|                                                                                                                                                                                                                                                                                              |  | 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:                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                           |  |
|                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                      |  |             |  | SHEET 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 |                                     |
|-------------------------------------|-------------------------------------|
| MF3-3950                            | Crimp Die - Size 16, 18-20AWG       |
| MF3-3953                            | Crimp Die - Size 16, 16-18AWG       |
| MF3-3975                            | Crimp Die - Size 16, 14-16AWG       |
| MF3-3990                            | 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 |