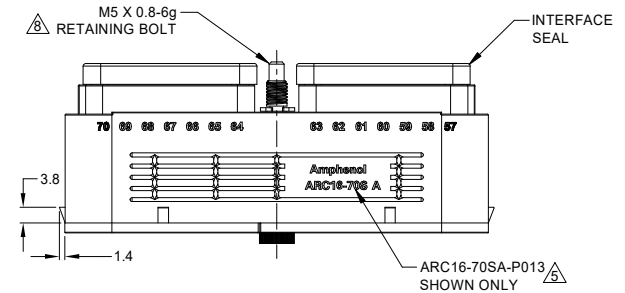
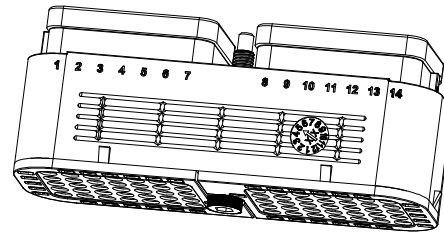
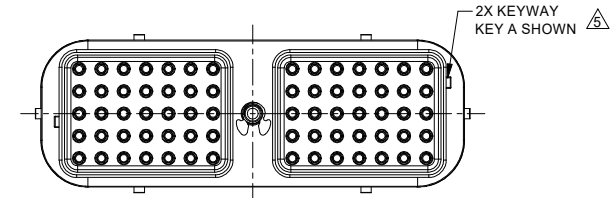
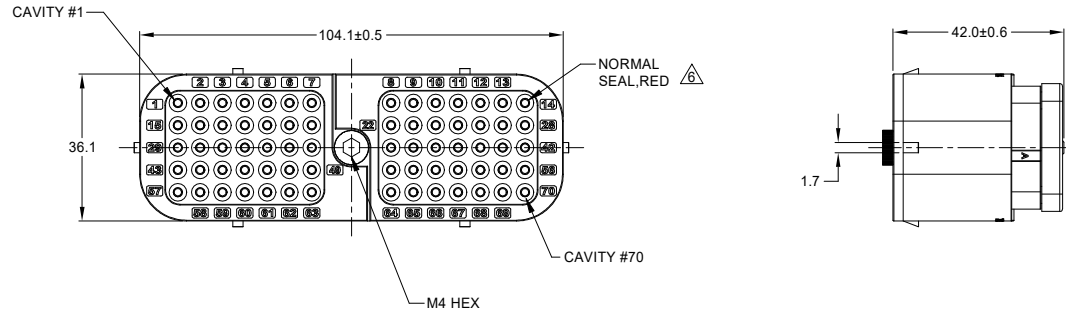


| REVISIONS |     |                     |           |       |       |
|-----------|-----|---------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION         | DATE      | BY    | APPR  |
| A1        | -   | RELEASE NEW DRAWING | 12/JUL/22 | LOUIE | TOMMY |



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 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 <sup>2</sup> ) |

7. PLUG IS SUPPLIED WITH DUST CAP

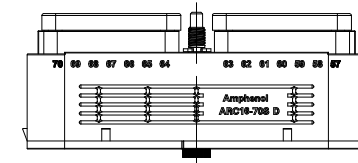
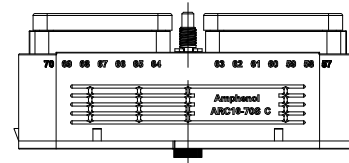
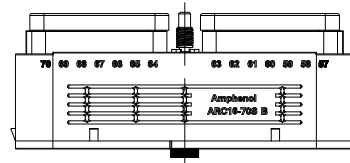
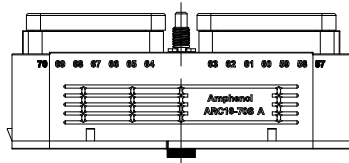
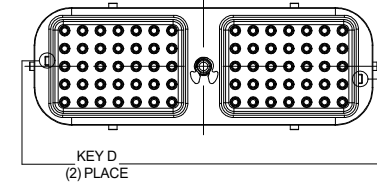
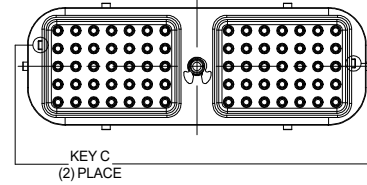
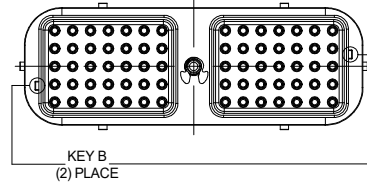
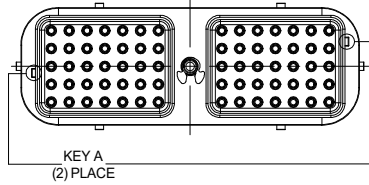
8. MATING TORQUE REQUIREMENT: 25 - 28 IN-LB [ 2.82 - 3.16 Nm ]

9. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

| SEE SHEET 2                           |             | DESCRIPTION  |         | 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 Fractions ±1/64        |             |  |         |              |
| 2 PL DEC ±0.15 Angles ±1°             |             |  |         |              |
| 3 PL DEC ±0.08                        |             |  |         |              |
| 3) Note reference =                   |             |  |         |              |
| SIGNATURES                            |             | DATE   |         |              |
| DRAWN: LOUIE YN                       |             | 12/JUL/22  |         |              |
| CHECKED: ORION LI                     |             | 13/JUL/22  |         |              |
| ENGINEER:                             |             |  |         |              |
| APPROVAL: TOMMY XIE                   |             | 14/JUL/22  |         |              |
| CUSTOMER:                             |             |  |         |              |
| MATERIAL SPECIFICATIONS:              |             |  |         |              |
| 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-ARC16-70SX-P013  | A1      | A1           |
| SCALE                                 |             | NONE   |         | SHEET 1 OF 2 |

TITLE: 70POS PLUG SOCKET ARC SERIES KEYS 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  |             | DESCRIPTION  |  | ITEM |
|--|-------------|--|--|------|
| QUANTITY   | PART NUMBER | 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 ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>Fractions ±1/64<br>Angles ±1°<br>3) Note reference = |             |  |  |      |
| SIGNATURES   |             | DATE   |  |      |
| DRAWN: LOUIE YIN   |             | 12/JUL/22  |  |      |
| CHECKED: ORION LI  |             | 13/JUL/22  |  |      |
| ENGINEER:  |             |  |  |      |
| APPROVAL: TOMMY XIE  |             | 14/JUL/22  |  |      |
| CUSTOMER:  |             |  |  |      |
| MATERIAL SPECIFICATIONS:   |             |  |  |      |
| 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  |             | SHEET 2 OF 2   |  |      |

# 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** TYPE: **C** DWG NO: **ARC16-70SX-P013** REVISION: **A1**

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