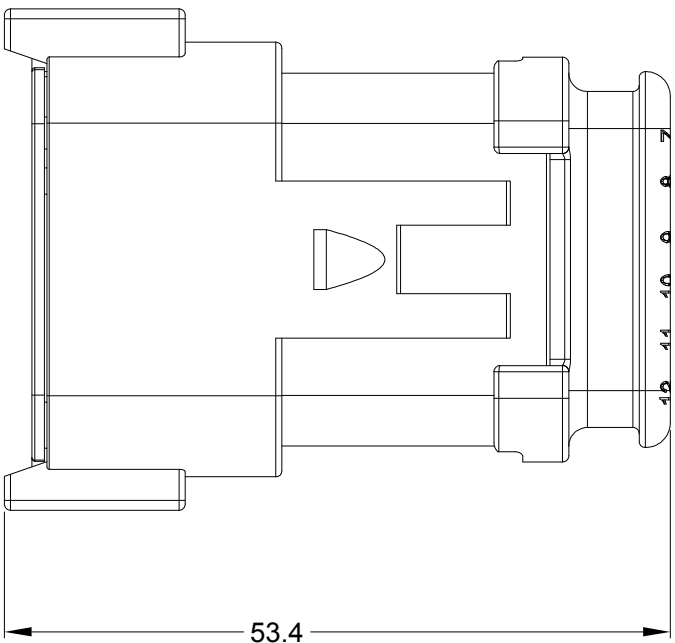
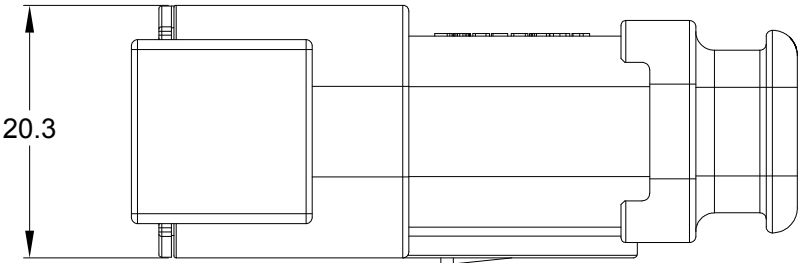
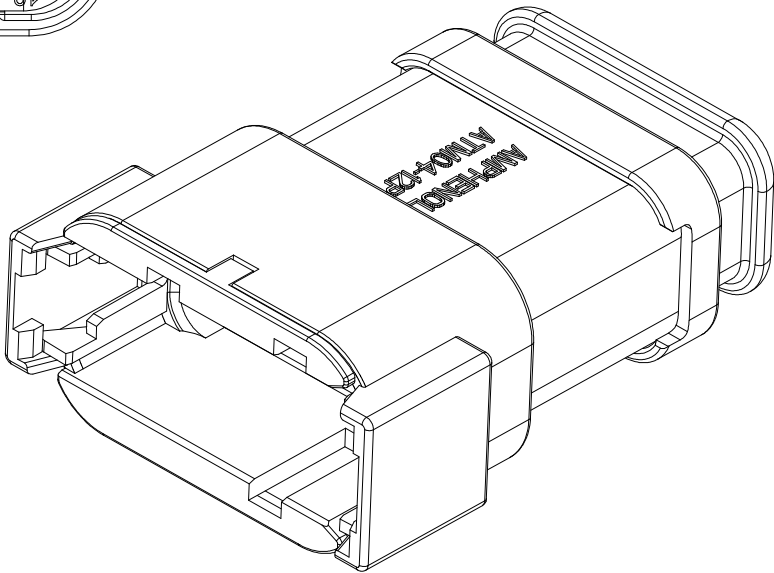
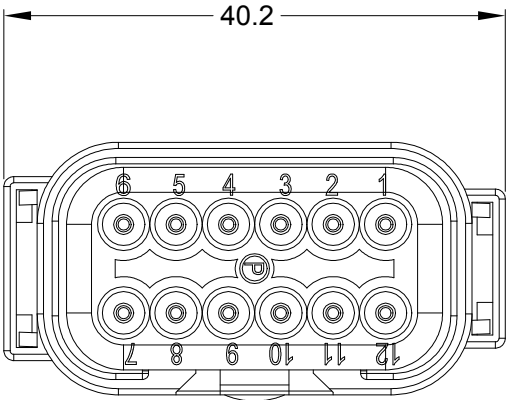
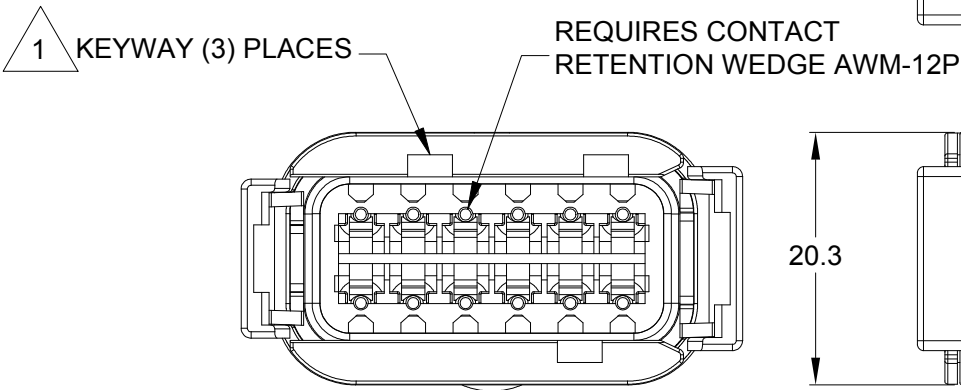
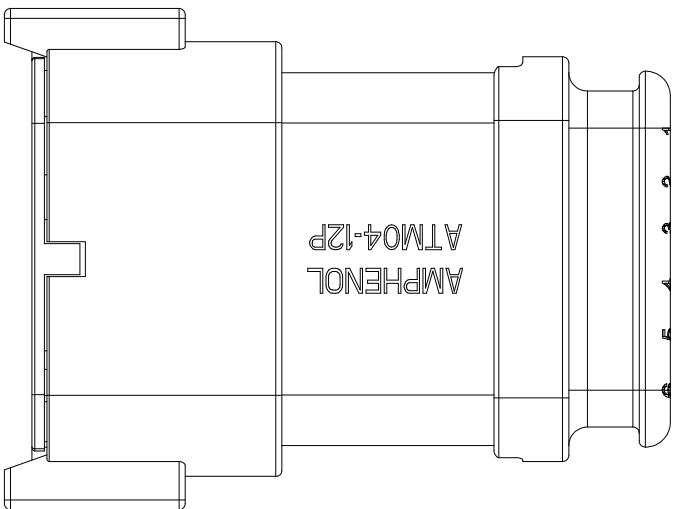


| REVISIONS |     |                    |           |       |       |
|-----------|-----|--------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION        | DATE      | BY    | APPR  |
| A1        | --  | PERLIMINARY DESIGN | 03/NOV/14 | ORION | TOMMY |
| A2        | --  | REVISE DIMENSION   | 21/JUL/20 | LOUIE | TOMMY |

TITLE: RECEPTACLE, KEYED, 12 PIN, STRAIN RELIEF, ATM SERIES  
DWG NO: ATM04-12PX-SR1XX  
REV: A2  
SH: 1  
OF: 2



NOTES: UNLESS OTHERWISE SPECIFIED

1. SEE SHEET 2 FOR KEY ARRANGEMENTS AND COLORS.
2. MATERIAL:  
HOUSING: THERMOPLASTIC  
SEAL: SILICONE RUBBER
3. MODIFICATIONS: STRAIN RELIEF END CAP
4. SPECIFICATIONS:  
4.1 CURRENT RATING: 7.5 AMPS  
4.2 OPERATING TEMPERATURE: -55°C TO +125°C.  
4.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.  
4.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.  
4.5 MOISTURE RESISTANCE: IP67 ( MATED CONDITION )  
4.6 MATING CYCLE DURABILITY: 100 CYCLES  
4.7 RoHS COMPLIANT
5. MATING PART: ATM06-12SX\* PLUG.  
( X = A,B,C,D KEYS; \* = MODIFICATIONS AND COLORS )
6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

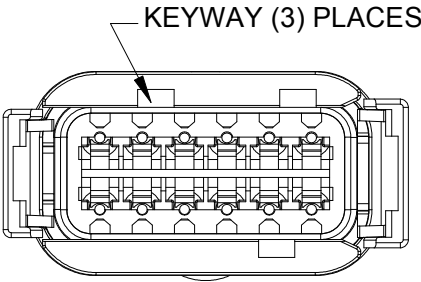
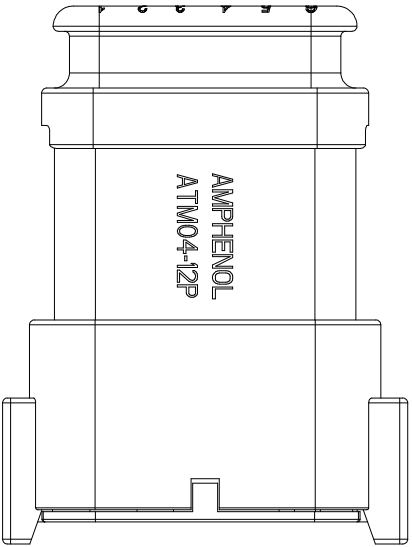
7. CONTACT SIZE AND REAR SEAL WIRE RANGE:

| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|--------------------|
| 20           | 1.35 mm (.053 in) | 3.05 mm (.120 in) | 16 - 22 AWG        |

|                                      |      |  |  |
|--------------------------------------|------|--|--|
| SEE SHEET 2                          |      |  |  |
| PART NUMBER                          |      | DESCRIPTION  |  |
| QUANTITY                             | ITEM |  |  |
| MATERIALS LIST                       |      |  |  |
| UNLESS OTHERWISE SPECIFIED           |      | SIGNATURES   |  |
| 1) All dimensions are in metric(mm). |      | DATE   |  |
| 2) Tolerances are as follows:        |      | DRAWN: LOUIE 21/JUL/20   |  |
| 1 PL DEC ±0.30                       |      | CHECKED: ORION 22/JUL/20   |  |
| 2 PL DEC ±0.15                       |      | ENGINEER:  |  |
| 3 PL DEC ±0.08                       |      | APPROVAL: TOMMY 23/JUL/20  |  |
| 3) Note reference =                  |      | CUSTOMER:  |  |
| X                                    |      | 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:             |      | RECEPTACLE, KEYED, 12 PIN, STRAIN RELIEF ATM SERIES  |  |
| PROCESS SPECIFICATIONS:              |      | SIZE TYPE DWG NO: REVISION   |  |
| NEXT ASS'Y:                          |      | B C- ATM04-12PX-SR1XX A2   |  |
| SCALE: NONE                          |      | SHEET 1 OF 2   |  |

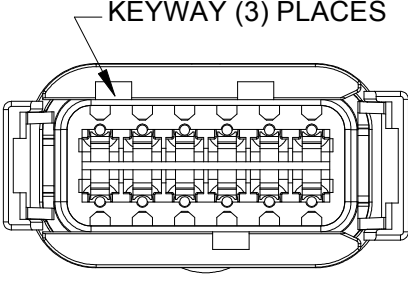
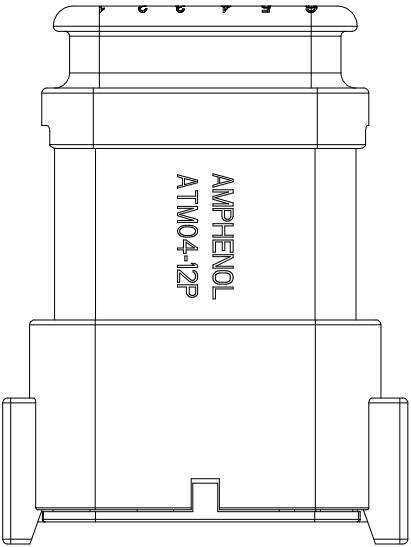
| REVISIONS |     |             |      |    |      |
|-----------|-----|-------------|------|----|------|
| REV       | ECO | DESCRIPTION | DATE | BY | APPR |

P/N ATM04-12PA-SR1GY  
KEY-A CONFIGURATION  
STANDARD COLOR: GREY



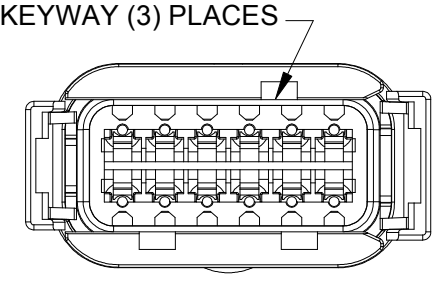
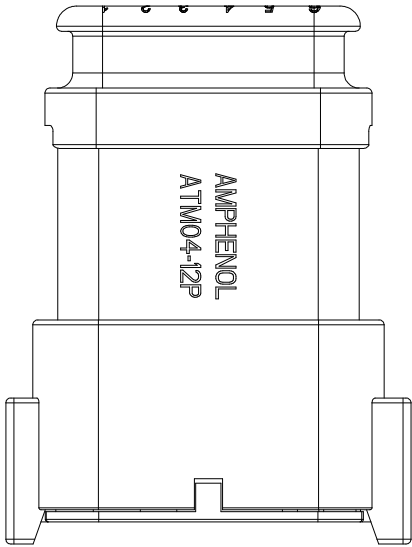
| KEY-A CONFIGURATION |                  |
|---------------------|------------------|
| COLOR               | PART NUMBER      |
| * GREY              | ATM04-12PA-SR1GY |
| BLACK               | ATM04-12PA-SR1BK |
| GREEN               | ATM04-12PA-SR1GN |
| BROWN               | ATM04-12PA-SR1BN |

P/N ATM04-12PB-SR1BK  
KEY-B CONFIGURATION  
STANDARD COLOR: BLACK



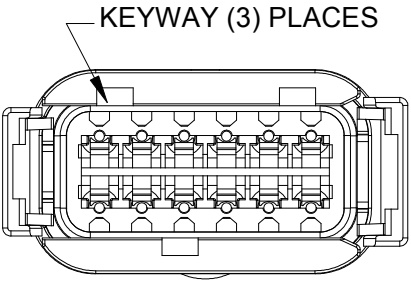
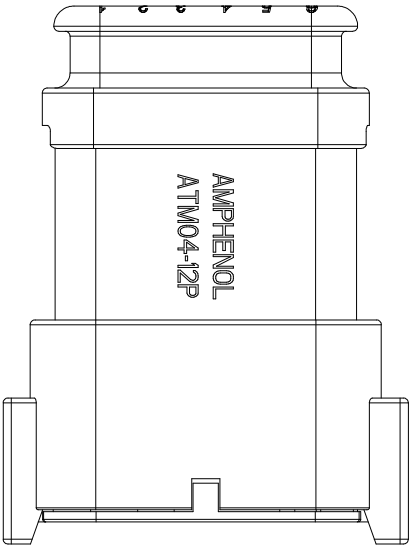
| KEY-B CONFIGURATION |                  |
|---------------------|------------------|
| COLOR               | PART NUMBER      |
| GREY                | ATM04-12PB-SR1GY |
| * BLACK             | ATM04-12PB-SR1BK |
| GREEN               | ATM04-12PB-SR1GN |
| BROWN               | ATM04-12PB-SR1BN |

P/N ATM04-12PC-SR1GN  
KEY-C CONFIGURATION  
STANDARD COLOR: GREEN



| KEY-C CONFIGURATION |                  |
|---------------------|------------------|
| COLOR               | PART NUMBER      |
| GREY                | ATM04-12PC-SR1GY |
| BLACK               | ATM04-12PC-SR1BK |
| * GREEN             | ATM04-12PC-SR1GN |
| BROWN               | ATM04-12PC-SR1BN |

P/N ATM04-12PD-SR1BN  
KEY-D CONFIGURATION  
STANDARD COLOR: BROWN




| KEY-D CONFIGURATION |                  |
|---------------------|------------------|
| COLOR               | PART NUMBER      |
| GREY                | ATM04-12PD-SR1GY |
| BLACK               | ATM04-12PD-SR1BK |
| GREEN               | ATM04-12PD-SR1GN |
| * BROWN             | ATM04-12PD-SR1BN |

NOTE:

AN ASTERISKS ( \* ) PLACED BEFORE THE COLOR DENOTES THE STANDARD MOLDED COLOR OF THE CONNECTORS SHOWN ABOVE.

OTHER COLORS SHOWN ARE AVAILABLE VIA SPECIAL ORDER.

| 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 ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br><div>3) Note reference = </div> |                | <b>SIGNATURES</b><br><br>DRAWN: LOUIE<br><br>CHECKED: ORION<br><br>ENGINEER:<br><br>APPROVAL: TOMMY<br><br>CUSTOMER:<br><br>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. |  | <b>DATE</b><br><br>21/LOUIE/20<br><br>22/LOUIE/20<br><br><br><br>23/JUL/20 |  |
| MATERIAL SPECIFICATIONS:   |                | <div>Amphenol</div> <div>Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div> <div>RECEPTACLE, KEYED, 12 PIN,<br/>STRAIN RELIEF, ATM SERIES</div>  |  |  |  |
| PROCESS SPECIFICATIONS:  |                |  |  |  |  |
| NEXT ASSY:   |                | <b>SIZE</b><br>B C-  |  | <b>DWG NO:</b><br>ATM04-12PX-SR1XX   |  |
|  |                | <b>SCALE:</b><br>NONE  |  | <b>REVISION</b><br>A2  |  |
|  |                | SHEET 2  |  | OF 2   |  |

TITLE: RECEPTACLE, KEYED, 12 PIN,STRAIN RELIEF, ATM SERIES  
DWG NO: ATM04-12PX-SR1XX  
REV: A2  
SH: 2  
OF: 2

## A Series™ - Contact Size 20 Options (Works with: ATM, DuraMate and PanelMate Series)

| Machined Contacts, Sockets & Pins |  |      |       |          |
|-----------------------------------|--|------|-------|----------|
| Part Number                       | Description                            | Size | AWG   | Type     |
| AT60-010-2031                     | Male Contact - Pin, Gold-plated        | 20   | 16-18 | Machined |
| AT62-005-20141                    | Female Contact - Socket, Gold-plated   | 20   | 16-18 | Machined |
| AT60-010-20141                    | Male Contact - Pin, Nickel-plated      | 20   | 16-18 | Machined |
| AT62-005-2031                     | Female Contact - Socket, Nickel-plated | 20   | 16-18 | Machined |
| AT60-202-2031                     | Male Contact - Pin, Gold-plated        | 20   | 20-22 | Machined |
| AT62-201-2031                     | Female Contact - Socket, Gold-plated   | 20   | 20-22 | Machined |
| AT60-202-20141                    | Male Contact - Pin, Nickel-plated      | 20   | 20-22 | Machined |
| AT62-201-20141                    | Female Contact - Socket, Nickel-plated | 20   | 20-22 | Machined |

| Tooling - Machined Contacts |   |
|-----------------------------|---|
| Part Number                 | Description   |
| AUTK-20                     | Hand Crimp Tool, Size 20                                      |
| 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                           |

| Stamped & Formed Contacts, Sockets & Pins |  |      |       |                  |
|---|--|------|-------|------------------|
| Part Number                               | Description                            | Size | AWG   | Type             |
| AT60-20-0144                              | Male Contact - Pin, Gold-plated        | 20   | 16-22 | Stamped & Formed |
| AT62-20-0144                              | Female Contact - Socket, Gold-plated   | 20   | 16-22 | Stamped & Formed |
| AT60-20-0244                              | Male Contact - Socket, Gold-plated     | 20   | 16-22 | Stamped & Formed |
| AT62-20-0244                              | Female Contact - Socket, Gold-plated   | 20   | 16-22 | Stamped & Formed |
| AT60-20-0122                              | Male Contact - Pin, Nickel-plated      | 20   | 16-22 | Stamped & Formed |
| AT62-20-0122                              | Female Contact - Socket, Nickel-plated | 20   | 16-22 | Stamped & Formed |
| AT60-20-0222                              | Male Contact - Socket, Nickel-plated   | 20   | 16-22 | Stamped & Formed |
| AT62-20-0222                              | Female Contact - Socket, Nickel-plated | 20   | 16-22 | Stamped & Formed |
| AT60-20-0277                              | Male Contact - Socket, Tin-plated      | 20   | 16-22 | Stamped & Formed |
| AT62-20-0277                              | Female Contact - Socket, Tin-plated    | 20   | 16-22 | Stamped & Formed |
| AT60-20-0422                              | Male Contact - Socket, Nickel-plated   | 20   | 20-22 | Stamped & Formed |
| AT62-20-0444                              | Female Contact - Socket, Gold-plated   | 20   | 20-22 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts |   |
|-------------------------------------|---|
| MF3-3974                            | Crimp Die - Size 20                         |
| MF3-3976                            | Crimp Die - Size 20 (20-22AWG -04XX Series) |
| MF3-3978                            | Crimp Die - Size 20 (20-22AWG -02XX Series) |
| ATT-20-00                           | Hand Crimp Tool - Size 20 (20AWG)           |

| Contact Removal Tools (For both Machined or Stamped & Formed Contacts) |  |
|--|--|
| Part Number  | Description                            |
| ATRT-100   | Contact and Wedgelock Extraction Tool  |
| AT11-240-2005  | Contact Removal Tool, Plastic, Size 20 |

| Sealing Plugs (For both Machined or Stamped & Formed Contacts) |  |
|--|--|
| Part Number  | Description                                      |
| AT13-204-2005  | Sealing Plug, Size 20, White                     |
| AT13-204-2005-SR   | Sealing Plug, Size 20, SR01 Series, Black        |
| ATM13-217-2005   | Locking Sealing Plug, Size 20, Grey              |
| ATM13-217-2005-SR  | Locking Sealing Plug, Size 20, SR01 Series, Blue |