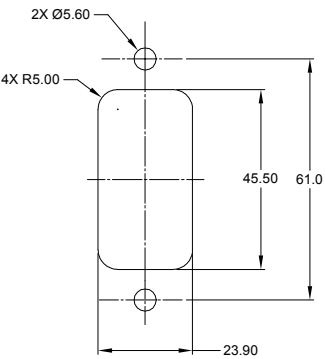
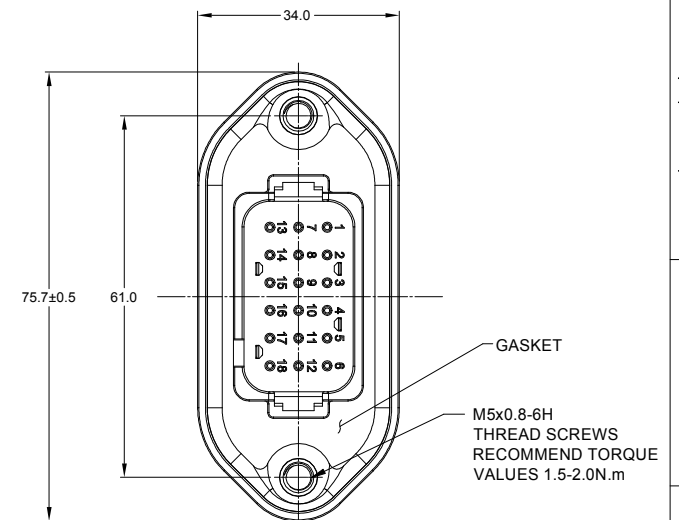
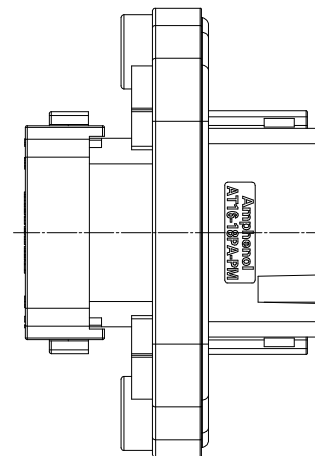
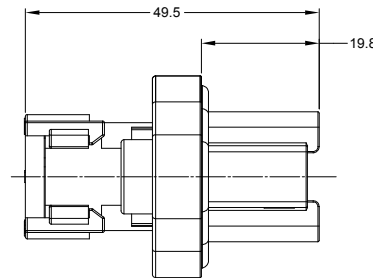
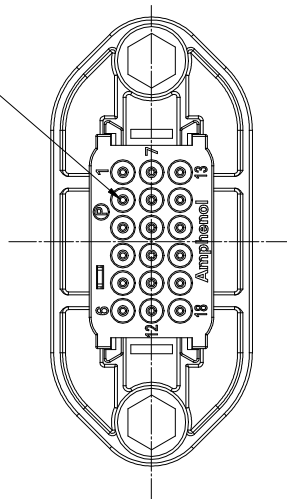




MOUNTING PLATE SIZE

6 STANDARD OR  
REDUCED DIAMETER SEAL



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
HOUSING: THERMOPLASTIC; COLOR: SEE CHART  
END CAP: THERMOPLASTIC; COLOR: BLACK  
STRAIN RELIEF CAP: THERMOPLASTIC; COLOR: BLACK  
SEALS: SILICONE RUBBER; COLOR: RED, RD COLOR: GREEN
- MODIFICATIONS: FLANGE, GASKET, END CAP, STRAIN RELIEF CAP (OPT), REDUCED DIAMETER SEAL, STANDARD SEAL (OPT).
- 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: AT16-18SX-\* PLUGS  
( X = A,B,C,D,E KEYS; \* = MODIFICATIONS AND COLORS )
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

6 CONTACT SIZE AND REAR SEAL WIRE RANGE

REDUCED DIAMETER SEAL:

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

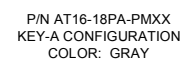
STANDARD SEAL:

| CONTACT SIZE | MIN. INSUL O.D.      | MAX. INSUL O.D.      | TYPICAL WIRE RANGE |
|--------------|----------------------|----------------------|--------------------|
| 16           | 2.24 mm<br>(.088 in) | 3.68 mm<br>(.145 in) | 14 - 20 AWG        |

| REVISIONS |     |                 |           |       |       |
|-----------|-----|-----------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION     | DATE      | BY    | APPR  |
| A1        | -   | RELEASE DRAWING | 30JUN2020 | ZENIN | TOMMY |

| SEE CHART                |                                                                                                                                                                                                                                                                      | DESCRIPTION                                                                              |                        | ITEM        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------|-------------|
| PART NUMBER              |                                                                                                                                                                                                                                                                      | MATERIALS LIST                                                                           |                        |             |
| QUANTITY                 | UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                                                           | SIGNATURES                                                                               | DATE                   |             |
|                          | 1) All dimensions are in metric(mm).                                                                                                                                                                                                                                 | DRAWN: ZENINDENG                                                                         | 28/JUN/20              |             |
|                          | 2) Tolerances are as follows:                                                                                                                                                                                                                                        | CHECKED: ORIONLI                                                                         | 28/JUN/20              |             |
|                          | 1 PL DEC ±0.30                                                                                                                                                                                                                                                       | ENGINEER:                                                                                |                        |             |
|                          | 2 PL DEC ±0.15                                                                                                                                                                                                                                                       | APPROVAL: TOMMYXIE                                                                       | 30/JUN/20              |             |
|                          | 3 PL DEC ±0.08                                                                                                                                                                                                                                                       | CUSTOMER:                                                                                |                        |             |
|                          | 3) Note reference =                                                                                                                                                                                                                                                  |                                                                                          |                        |             |
| MATERIAL 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. |                                                                                          |                        |             |
| PROCESS SPECIFICATIONS:  |                                                                                                                                                                                                                                                                      |                                                                                          |                        |             |
| NEXT ASSY:               |                                                                                                                                                                                                                                                                      |                                                                                          |                        |             |
|                          |                                                                                                                                                                                                                                                                      | Sine Systems - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036 |                        |             |
|                          |                                                                                                                                                                                                                                                                      | 18 POSITION RECEPTACLE, PIN,PANELMATE AT SERIES                                          |                        |             |
|                          |                                                                                                                                                                                                                                                                      | SIZE B C-                                                                                | DWG NO: AT16-18PX-PMXX | REVISION A1 |
|                          |                                                                                                                                                                                                                                                                      | SCALE NONE                                                                               | SHEET 1 OF 3           |             |

| REVISIONS |     |                 |           |       |       |
|-----------|-----|-----------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION     | DATE      | BY    | APPR  |
| A1        | -   | RELEASE DRAWING | 30/JUN/20 | ZENIN | TOMMY |

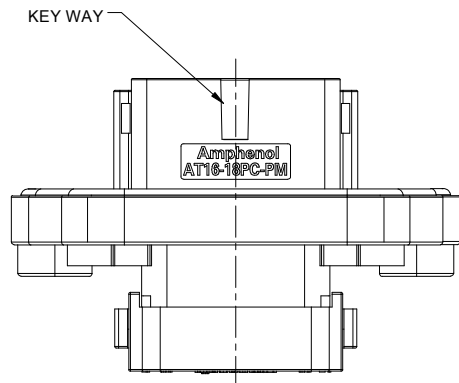


P/N AT16-18PB-PMXX  
KEY-B CONFIGURATION  
COLOR: BLACK

| KEY-B CONFIGURATION |               |           |
|---------------------|---------------|-----------|
| PART NUMBER         | STRAIN RELIEF | SEAL      |
| AT16-18PB-PM11      | NO            | REDUCED D |
| AT16-18PB-PM15      | YES           | REDUCED D |
| AT16-18PB-PM12      | NO            | STANDARD  |
| AT16-18PB-PM16      | YES           | STANDARD  |

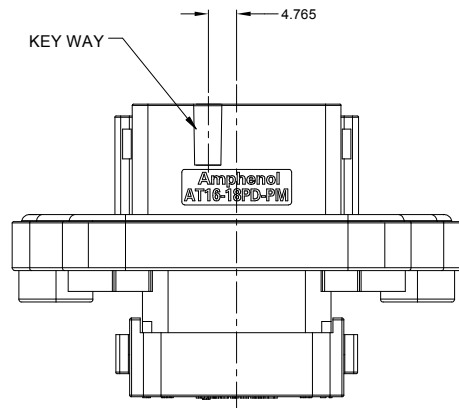
|                                                                                                                                                                                                                                                                                                                                                                                    |                |                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                                                                                                                                                                                                                                                                                                                                                                        |                | DESCRIPTION                                                                                                                                                                                                                                                          |              | ITEM                                                                                                                                                                                                                                                            |
| QUANTITY                                                                                                                                                                                                                                                                                                                                                                           | MATERIALS LIST |                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                 |
| <div>UNLESS OTHERWISE SPECIFIED</div> <div>1) All dimensions are in metric (mm).</div> <div>2) Tolerances are as follows:</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>3) Note reference = </div> |                | <div>SIGNATURES</div> <div>DRAWN: ZENWLDG 28/JUN/20</div> <div>CHECKED: ORONLI 28/JUN/20</div> <div>ENGINEER:</div> <div>APPROVAL: TOMMY XIE 30/JUN/20</div> <div>CUSTOMER:</div>                                                                                    |              | <div></div> <div>Sine Systems - <a href="http://www.amphenol-sine.com">www.amphenol-sine.com</a></div> <div>44724 Morley Drive</div> <div>Clinton Township, MI 48036</div> |
| MATERIAL 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. |              |                                                                                                                                                                                                                                                                 |
| PROCESS SPECIFICATIONS:                                                                                                                                                                                                                                                                                                                                                            |                | 18 POSITION RECEPTACLE, PIN, PANELMATE AT SERIES                                                                                                                                                                                                                     |              |                                                                                                                                                                                                                                                                 |
| NEXT ASSY:                                                                                                                                                                                                                                                                                                                                                                         |                | SIZE<br>B C-                                                                                                                                                                                                                                                         | TYPE<br>C-   | DWG NO:<br>AT16-18PX-PMXX                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                    |                | SCALE: NONE                                                                                                                                                                                                                                                          | SHEET 2 OF 3 |                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                    |                |                                                                                                                                                                                                                                                                      |              | REVISION<br>A1                                                                                                                                                                                                                                                  |

| REVISIONS |     |                 |           |       |       |
|-----------|-----|-----------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION     | DATE      | BY    | APPR  |
| A1        | -   | RELEASE DRAWING | 30/JUN/20 | ZENIN | TOMMY |



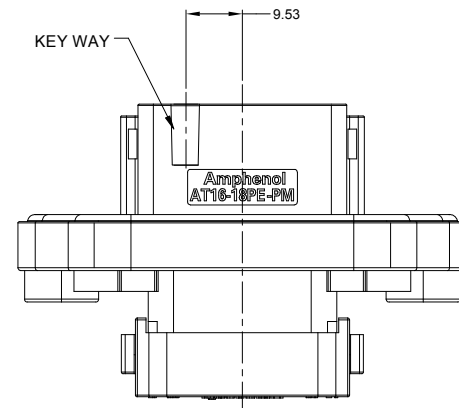
P/N AT16-18PC-PMXX  
KEY-C CONFIGURATION  
COLOR: GREEN

| KEY-C CONFIGURATION |               |              |
|---------------------|---------------|--------------|
| PART NUMBER         | STRAIN RELIEF | SEAL         |
| AT16-18PC-PM11      | NO            | REDUCED DIA. |
| AT16-18PC-PM15      | YES           | REDUCED DIA. |
| AT16-18PC-PM12      | NO            | STANDARD     |
| AT16-18PC-PM16      | YES           | STANDARD     |



P/N AT16-18PD-PMXX  
KEY-D CONFIGURATION  
COLOR: BROWN

| KEY-D CONFIGURATION |               |              |
|---------------------|---------------|--------------|
| PART NUMBER         | STRAIN RELIEF | SEAL         |
| AT16-18PD-PM11      | NO            | REDUCED DIA. |
| AT16-18PD-PM15      | YES           | REDUCED DIA. |
| AT16-18PD-PM12      | NO            | STANDARD     |
| AT16-18PD-PM16      | YES           | STANDARD     |



P/N AT16-18PE-PMXX  
KEY-E CONFIGURATION  
COLOR: GRAY

| KEY-E CONFIGURATION |               |              |
|---------------------|---------------|--------------|
| PART NUMBER         | STRAIN RELIEF | SEAL         |
| AT16-18PE-PM11      | NO            | REDUCED DIA. |
| AT16-18PE-PM15      | YES           | REDUCED DIA. |
| AT16-18PE-PM12      | NO            | STANDARD     |
| AT16-18PE-PM16      | YES           | STANDARD     |

| QUANTITY                             | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                          | ITEM            |
|--------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| MATERIALS LIST                       |             |                                                                                                                                                                                                                                                                      |                 |
| UNLESS OTHERWISE SPECIFIED           |             | SIGNATURES                                                                                                                                                                                                                                                           |                 |
| 1) All dimensions are in metric(mm). |             | DRAWN: ZENINDENG                                                                                                                                                                                                                                                     | DATE: 28/JUN/20 |
| 2) Tolerances are as follows:        |             | CHECKED: ORIONLI                                                                                                                                                                                                                                                     | DATE: 28/JUN/20 |
| 1 PL DEC ±0.30                       |             | ENGINEER:                                                                                                                                                                                                                                                            |                 |
| 2 PL DEC ±0.15                       |             | APPROVAL: TOMMYXIE                                                                                                                                                                                                                                                   | DATE: 30/JUN/20 |
| 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:             |             | SIZE TYPE DWG NO:                                                                                                                                                                                                                                                    |                 |
| PROCESS SPECIFICATIONS:              |             | B C- AT16-18PX-PMXX                                                                                                                                                                                                                                                  |                 |
| NEXT ASSY:                           |             | SCALE NONE                                                                                                                                                                                                                                                           |                 |
|                                      |             | SHEET 3 OF 3                                                                                                                                                                                                                                                         |                 |

TITLE: 18 POSITION RECEPTACLE, PIN,PANELMATE,AT SERIES  
DWG NO.: AT16-18PX-PMXX  
REV: A1  
SH: 3  
OF: 3

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 |