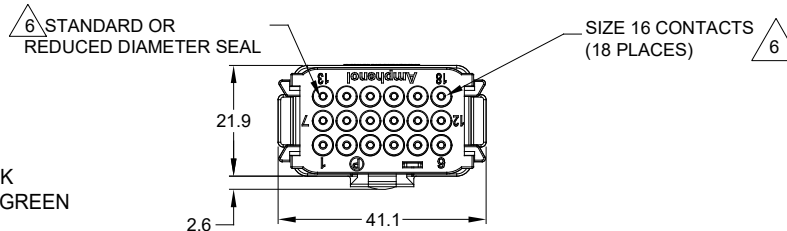
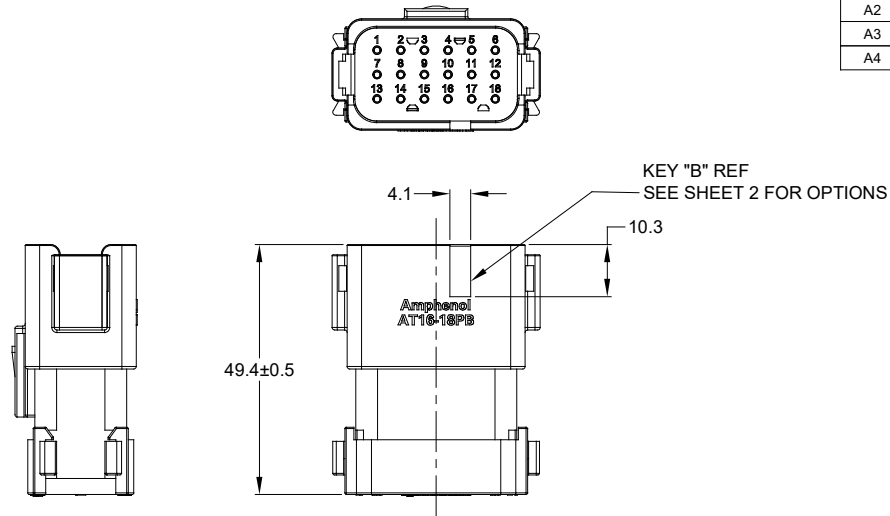


| REVISIONS | | | | | |
|-----------|-----|---------------------------------|-----------|-------|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | PRELIMINARY RELEASE | 12JAN2015 | JAH | - |
| A2 | - | ADDED P/N'S, COLORS, SR END CAP | 01NOV2019 | JAH | - |
| A3 | - | UPDATE DRAWING | 13FEB2020 | ZENIN | TOMMY |
| A4 | - | UPDATE DRAWING | 27FEB2020 | ZENIN | TOMMY |



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: END CAP, STRAIN RELIEF CAP (OPT),
REDUCED DIAMETER 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: IP67 (MATED CONDITION)
3.6 MATING CYCLE DURABILITY: 100 CYCLES
3.7 RoHS COMPLIANT

4. MATING PART: AT16-18SX-* PLUG
(X = A,B,C,D,E KEYS; * = MODIFICATIONS AND COLORS)

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

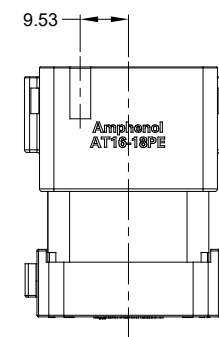
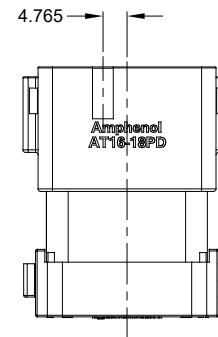
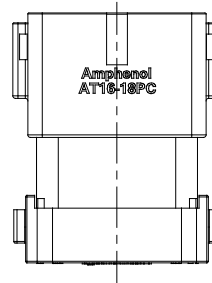
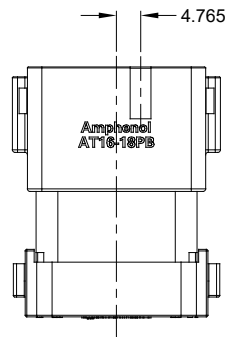
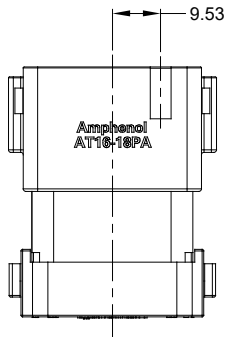
CONTACT SIZE AND REAR SEAL WIRE RANGE

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

| SEE CHART | | PART NUMBER | | DESCRIPTION | | ITEM |
|---|--|-------------------|--|-----------------------------|--|--|
| QUANTITY | | | | | | |
| MATERIALS LIST | | | | | | |
| UNLESS OTHERWISE SPECIFIED | | SIGNATURES | | DATE | | SINE Systems Corporation A Subsidiary of Amphenol Corporation 44724 Morley Drive Clinton Township, MI 48036 AT SERIES, 18 PIN RECEPTACLE |
| 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 | | DRAWN: ZENIN.DENG | | 27FEB20 | | |
| 3) Note reference = | | CHECKED: ORION.LJ | | 27FEB20 | | |
| MATERIAL SPECIFICATIONS: | | ENGINEER: | | APPROVAL: TOMMY.XIE | | |
| PROCESS SPECIFICATIONS: | | CUSTOMER: | | DATE: 27FEB20 | | 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 1 OF 2 | | |
| SIZE: B | | FSCM NO.: | | DWG NO. C- AT16-18P*-XXXXXX | | REVISION: A4 |

TITLE: AT SERIES, 18 PIN RECEPTACLE
 DWG NO.: C- AT16-18P*-XXXXXX
 REV: A4
 SH: 1
 OF: 2

| REVISIONS | | | | | |
|-----------|-----|---------------------------------|-----------|-------|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | PRELIMINARY RELEASE | 12JAN2015 | JAH | - |
| A2 | - | ADDED P/N'S, COLORS, SR END CAP | 01NOV2019 | JAH | - |
| A3 | - | UPDATE DRAWING | 13FEB2020 | ZENIN | TOMMY |
| A4 | - | UPDATE DRAWING | 27FEB2020 | ZENIN | TOMMY |



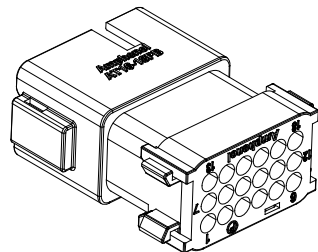
| KEY-A CONFIGURATION | | |
|---------------------|---------------|-------|
| PART NUMBER | STRAIN RELIEF | COLOR |
| AT16-18PA-K004 | NO | BLACK |
| AT16-18PA-EK02 | NO | GRAY |
| AT16-18PA-SR02 | YES | BLACK |
| AT16-18PA-EKSR02 | YES | GRAY |

| KEY-B CONFIGURATION | | |
|---------------------|---------------|-------|
| PART NUMBER | STRAIN RELIEF | COLOR |
| AT16-18PB-K004 | NO | BLACK |
| AT16-18PB-SR02 | YES | BLACK |

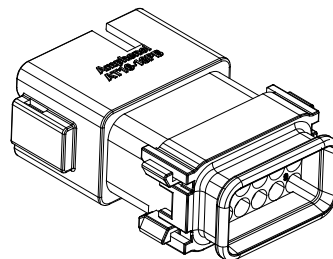
| KEY-C CONFIGURATION | | |
|---------------------|---------------|-------|
| PART NUMBER | STRAIN RELIEF | COLOR |
| AT16-18PC-K004 | NO | BLACK |
| AT16-18PC-EK02 | NO | GREEN |
| AT16-18PC-SR02 | YES | BLACK |
| AT16-18PC-EKSR02 | YES | GREEN |

| KEY-D CONFIGURATION | | |
|---------------------|---------------|-------|
| PART NUMBER | STRAIN RELIEF | COLOR |
| AT16-18PD-K004 | NO | BLACK |
| AT16-18PD-EK02 | NO | BROWN |
| AT16-18PD-SR02 | YES | BLACK |
| AT16-18PD-EKSR02 | YES | BROWN |

| KEY-E CONFIGURATION | | |
|---------------------|---------------|-------|
| PART NUMBER | STRAIN RELIEF | COLOR |
| AT16-18PE-K004 | NO | BLACK |
| AT16-18PE-EK02 | NO | GRAY |
| AT16-18PE-SR02 | YES | BLACK |
| AT16-18PE-EKSR02 | YES | GRAY |



SHOWN WITH
END CAP



SHOWN WITH
STRAIN RELIEF

| QUANTITY | SEE CHART | DESCRIPTION | ITEM |
|--|-------------|---|------|
| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
| MATERIALS LIST | | | |
| <small>UNLESS OTHERWISE SPECIFIED</small> 1) All dimensions are in metric (mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 2 PL DEC ±0.15 3 PL DEC ±0.08 Fractions ±1/64 Angles ±1° 3) Note reference = ∇ X | | SINE Systems Corporation A Subsidiary of Amphenol Corporation 44724 Morley Drive Clinton Township, MI 48036 AT SERIES, 18 PIN RECEPTACLE | |
| MATERIAL SPECIFICATIONS: PROCESS SPECIFICATIONS: 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. SIGNATURES DATE DRAWN: ZENN DENG 27FEB20 CHECKED: ORION LI 27FEB20 ENGINEER: APPROVAL: TOMMY XIE 27FEB20 CUSTOMER: | |
| SIZE: B SCALE: NONE | | FSCM NO. DWG NO. REVISION C- AT16-18P*-XXXXXX A4 | |
| SHEET 2 OF 2 | | SHEET 2 OF 2 | |

TITLE: AT SERIES, 18 PIN RECEPTACLE DWG NO. C- AT16-18P*-XXXXXX REV. A4 SH. 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 (S&F contacts only) |
| | MFX-3953 | Crimp Die - Size 16, 16-18AWG (S&F contacts only) |
| | MFX-3975 | Crimp Die - Size 16, 14-16AWG (S&F contacts only) |
| | MFX-3990 | Crimp Die - Size 16, 20-22AWG (S&F contacts only) |
|  | ATT-16-00 | Hand Crimp Tool - Size 16, 14-16AWG (S&F contacts only) |
| | ATT-16-01 | Hand Crimp Tool - Size 16, 18-20AWG (S&F contacts only) |
| | ATT-1612-03 | Hand Crimp Tool - Size 16, 20-22AWG (S&F contacts only) |

Amphenol Sine Systems
 44724 Morley Drive
 Clinton Township, MI 48036 USA
www.amphenol-sine.com
 09/2021