

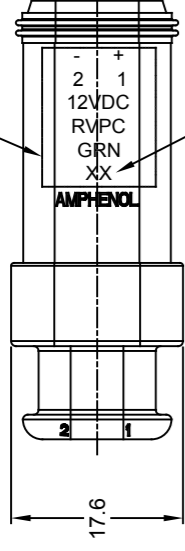


**THE DATASHEET OF
AT06-2S-LED12V01**



| | |
|-----|---|
| REV | E |
| A1 | |
| A2 | |

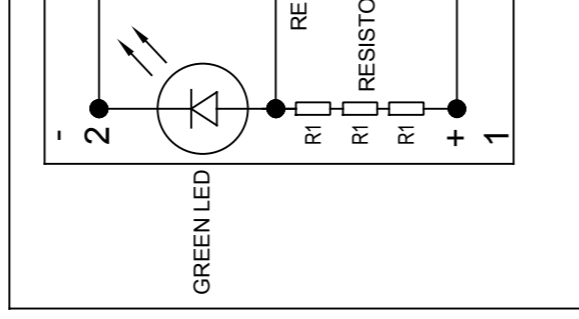
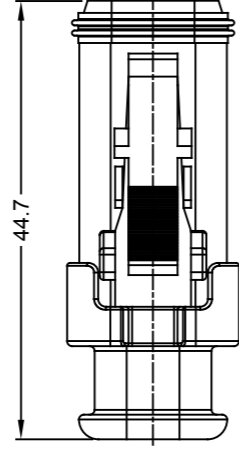
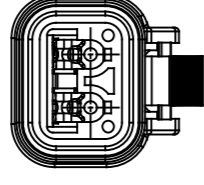
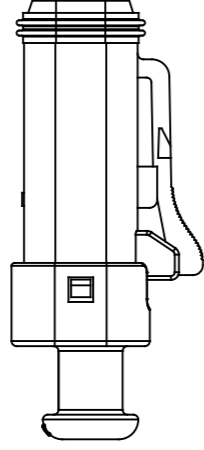
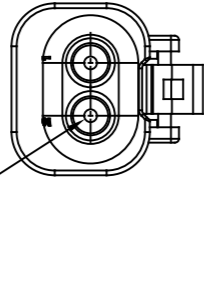
LASER ENGRAVE POLARITY, CONTACT NUMBER, VOLTAGE, SEAL TYPE, SPECIAL CIRCUIT TYPE (RVPC), AND LED COLOR CODE AS SHOWN IN THIS AREA.



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:
HOUSING: THERMOPLASTIC, GRAY
SEAL: SILICONE RUBBER
- MODIFICATIONS: LIGHT EMITTING DIODE (GREEN), STRAIN RELIEF END CAP, REVERSE VOLTAGE PROTECTION CIRCUIT (RVPC).
- CONNECTOR SPECIFICATIONS:
 - CURRENT RATING: 13 AMPS
 - DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
 - INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
 - MOISTURE RESISTANCE: IP67 (MATED CONDITION)
 - MATING CYCLE DURABILITY: 100 CYCLES
 - ROHS COMPLIANT
- LED SPECIFICATIONS:
 - FORWARD CURRENT: 30 MILLIAMPS TYPICAL; 100 MILLIAMPS MAXIMUM
 - REVERSE CURRENT: 50 MICROAMPS MAXIMUM
 - POWER DISSIPATION: 120 MILLIWATTS MAXIMUM
 - FORWARD VOLTAGE: 4 VOLTS MAXIMUM
 - REVERSE VOLTAGE: 5 VOLTS MAXIMUM
- RESISTANCE SPECIFICATIONS:
 - RESISTANCE VALUE (R1): 330 OHMS;
 - RESISTANCE VALUE (R2): 0 OHMS;
 - POWER RATING: ½ WATTS
 - MAX WORKING VOLTAGE: 150 VOLTS
- SUPPRESSOR DIODE SPECIFICATIONS:
 - STAND-OFF VOLTAGE: 14 VOLTS;
 - MAX. FORWARD CURRENT: 5µA @ 14V
 - PEAK PULSE POWER DISSIPATION: 400 WATTS
- MATING PART: AT04-2P* RECEPTACLE
(* = MODIFICATIONS AND COLORS)

SEE PART NUMBER CHART BELOW.
XX = SEAL CODE. RD IF REDUCED DIA.,
BLANK IF STANDARD SEAL.



COMPONENT TYPES:
R2 RESISTOR: TYPE 0805, R0Ω, 1/8W
SMD LED: KPA-1606ZGC-G
R1 RESISTOR: TYPE 0805, R330Ω, 1/8W
SMD T.V.S. DIODE: 400W, 14V, P4SMAJ14CA

- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.
- 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 (.053 in) | 3.05 mm (.120 in) | 14 - 20 AWG |

STANDARD SEAL:

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

| PART NUMBER CHART | |
|-------------------|------------------|
| SEAL | PART NUMBER |
| STANDARD | AT06-2S-LED12V01 |
| REDUCED DIAMETER | AT06-2S-LED12VR1 |

| QUANTITY | SEE P/N C | PART NUM |
|--------------------------------------|-----------|----------|
| UNLESS OTHERWISE SPECIFIED | | |
| 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 | | |
| Angles ±1° | | |
| 3) Note reference = | | |
| MATERIAL SPECIFICATIONS: | | |
| PROCESS SPECIFICATIONS: | | |
| NEXT ASSY: | | |

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 | |
|-------------------------------------|-------------------------------------|
| MFX-3950 | Crimp Die - Size 16, 18-20AWG |
| MFX-3953 | Crimp Die - Size 16, 16-18AWG |
| MFX-3975 | Crimp Die - Size 16, 14-16AWG |
| MFX-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 |

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management