		REVISIONS			
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	06JUN22	MILO	TOMMY

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:

HOUSING: NATURAL POLYCARBONATE SEAL: SILICONE RUBBER

- 2. MODIFICATIONS: LIGHT EMITTING DIODE (GREEN), REVERSE VOLTAGE PROTECTION CIRCUIT (RVPC), OVERMOLD-COMPATIBLE.
- 3. CONNECTOR SPECIFICATIONS:
 - 3.1 CURRENT RATING: 13 AMPS
 - 3.2 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
 - 3.3 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
 - 3.4 MOISTURE RESISTANCE:

IP68 (IM OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION)

- IP69K (MATED CONDITION)
- 3.5 MATING CYCLE DURABILITY: 100 CYCLES
- 3.6 ROHS COMPLIANT
- 3.7 OPERATING TEMPERATURE: -40°C TO +85°C
- 4. LED SPECIFICATIONS:
 - 4.1 FORWARD CURRENT: 30 MILLIAMPS TYPICAL; 100 MILLIAMPS MAXIMUM
 - 4.2 REVERSE CURRENT: 50 MICROAMPS MAXIMUM
 - 4.3 POWER DISSIPATION: 120 MILLIWATTS MAXIMUM 4.4 FORWARD VOLTAGE: 4 VOLTS MAXIMUM
 - 4.5 REVERSE VOLTAGE: 5 VOLTS MAXIMUM
- 5. RESISTOR SPECIFICATIONS:
 - 5.1 RESISTANCE VALUE (R1): 680 OHMS;
 - 5.2 RESISTANCE VALUE (R2): 0 OHMS;
 - 5.3 POWER RATING: 1/8 WATTS
 - 5.4 MAX.WORKING VOLTAGE: 150 VOLTS
- 6. SUPPRESSOR DIODE SPECIFICATIONS:
 - 6.1 STAND-OFF VOLTAGE: 26 VOLTS;
 - 6.2 MAX. FORWARD CURRENT: 5μA @ 26V
 - 6.3 PEAK PULSE POWER DISSIPATION: 400 WATTS
- MATING PART: AT04-2P* RECEPTACLE (* = MODIFICATIONS AND COLORS)
- 8. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

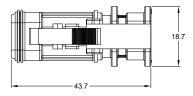


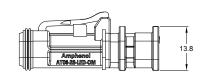
REDUCED DIAMETER SEAL:

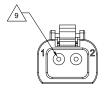
CONTACT	MIN. INSUL	MAX. INSUL	TYPICAL	
SIZE	O.D.	O.D.	WIRE RANGE	
16	1.35 mm (.053 in)	3.05 mm (.120 in)	14 - 20 AWG (2.0-0.5mm²)	

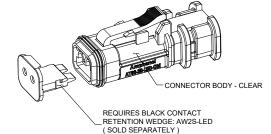
STANDARD SEAL:

STATE OF IL.				
CONTACT	MIN. INSUL	MAX. INSUL	TYPICAL	
SIZE	O.D.	O.D.	WIRE RANGE	
16	2.24 mm	3.68 mm	14 - 20 AWG	
16	(.088 in)	(.145 in)	(2.0-0.5mm²)	

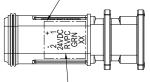








LASER ENGRAVE POLARITY, CONTACT NUMBER, VOLTAGE, SEAL TYPE, SPECIAL CIRCUIT TYPE (RVPC), AND LED COLOR CODE AS SHOWN IN THIS AREA.



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

COMPONENT TYPES:

R2 RESISTOR: TYPE 0805, R0 Ω , 1/8W SMD LED: KPA-1606ZGC-G

R1 RESISTOR: TYPE 0805, R680Ω, 1/8W SMD T.V.S. DIODE: 400W, 26V, P4SMAJ26CA

GREEN LED	GREEN LED SUPPRESSOR DIODE
4	R1 RESISTOR (3X) R1 + + + + + + + + + + + + + + + + + + +

PART NUMBE	R CHART
SEAL	PART NUMBER
STANDARD	AT06-2S-LED24V01-OMC
REDUCED DIAMETER	AT06-2S-LED24VR1-OMC

	SEE PART NU	JMBER C	CHART							
QUANTITY PART NUMBER				DE	SCRIPTION			ITEM		
			MA	TERI	٩LS	S LI	ST			
UNLESS OTHER	WISE SPECIFIED	SIGI	NATURE	S DATE		Λ	mnho	<u> </u>	\overline{a}	
2) Tolerances are a		DRAWN:	MILO.DONG	06JUN22	1		mphe	7 I I	OI	
2 PL DEC ±0.30 3 PL DEC ±0.08	Angles ±1°	CHECKED:	SULLEN.ZHAN	IG 07JUN22	22 Sine Systems - www.amphenol-sine.com		_			
3) Note reference	3) Note reference = X				44724 Morley Drive Clinton Township, MI 48036					
MATERIAL SPECIFICA	TIONS:	APPROVAL:	TOMMY.XIE	08JUN22						
WEIGH	fT:5.55g	CUSTOMER:			STR		RE+ AT SERIES, 2			LED,
			NG IS SUPPLIE	ED FOR GN FEATURES.	1	24V,	CLEAR BODY, R	√P CIR	CUIT	
PROCESS SPECIFICATIONS:		SHOWN HER THE AMPHEN OF REPRODI	EON ARE THE	T TO NORMAL			AT06-2S-LED2	4VX1		A1
NEXT ASS'Y:		MANUFACTU	IRING VARIATI	IONS.	SCALE: N	ONE		SHEET	1 of	1

SIRUCIUME+AI SEKIES,2+OS,PLUG,LED,24V,QLEAK BOUY,KVP CIKQUII

1-OMC REV: A1 SH:

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	Туре
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					
Description	Size	AWG	Туре		
Male Contact - Pin, Nickel-plated	16	14-18	Stamped & Formed		
Female Contact - Socket, Nickel-plated	16	14-18	Stamped & Formed		
Male Contact - Pin, Gold-plated	16	14-18	Stamped & Formed		
Female Contact - Socket, Gold-plated	16	14-18	Stamped & Formed		
Male Contact - Pin, Nickel-plated	16	16-18	Stamped & Formed		
Female Contact - Socket, Nickel-plated	16	16-18	Stamped & Formed		
Male Contact - Pin, Gold-plated	16	16-18	Stamped & Formed		
Female Contact - Socket, Gold-plated	16	16-18	Stamped & Formed		
Male Contact - Pin, Nickel-plated	16	16-20	Stamped & Formed		
Female Contact - Socket, Nickel-plated	16	16-20	Stamped & Formed		
Male Contact - Pin, Gold-plated	16	16-20	Stamped & Formed		
Female Contact - Socket, Gold-plated	16	16-20	Stamped & Formed		
Male Contact - Pin, Tin-plated	16	16-20	Stamped & Formed		
Female Contact - Socket, Tin-plated	16	16-20	Stamped & Formed		
Male Contact - Pin, Nickel-plated	16	20-22	Stamped & Formed		
Female Contact - Socket, Nickel-plated	16	20-22	Stamped & Formed		
Male Contact - Pin, Gold-plated	16	20-22	Stamped & Formed		
Female Contact - Socket, Gold-plated	16	20-22	Stamped & Formed		
	Description Male Contact - Pin, Nickel-plated Female Contact - Socket, Nickel-plated Male Contact - Pin, Gold-plated Female Contact - Socket, Gold-plated Male Contact - Pin, Nickel-plated Male Contact - Pin, Nickel-plated Male Contact - Socket, Nickel-plated Male Contact - Socket, Nickel-plated Male Contact - Socket, Gold-plated Female Contact - Socket, Gold-plated Male Contact - Pin, Nickel-plated Female Contact - Socket, Nickel-plated Male Contact - Pin, Gold-plated Female Contact - Socket, Gold-plated Male Contact - Pin, Tin-plated Female Contact - Pin, Tin-plated Male Contact - Pin, Nickel-plated Male Contact - Pin, Gold-plated	DescriptionSizeMale Contact - Pin, Nickel-plated16Female Contact - Socket, Nickel-plated16Male Contact - Pin, Gold-plated16Female Contact - Socket, Gold-plated16Male Contact - Pin, Nickel-plated16Female Contact - Pin, Nickel-plated16Male Contact - Pin, Gold-plated16Female Contact - Pin, Gold-plated16Male Contact - Pin, Mickel-plated16Female Contact - Socket, Gold-plated16Female Contact - Pin, Nickel-plated16Male Contact - Pin, Gold-plated16Female Contact - Socket, Gold-plated16Male Contact - Pin, Tin-plated16Female Contact - Pin, Tin-plated16Male Contact - Pin, Nickel-plated16Male Contact - Pin, Nickel-plated16Female Contact - Socket, Nickel-plated16Male Contact - Pin, Nickel-plated16Male Contact - Pin, Nickel-plated16Male Contact - Pin, Gold-plated16	DescriptionSizeAWGMale Contact - Pin, Nickel-plated1614-18Female Contact - Socket, Nickel-plated1614-18Male Contact - Pin, Gold-plated1614-18Female Contact - Socket, Gold-plated1614-18Male Contact - Pin, Nickel-plated1616-18Female Contact - Socket, Nickel-plated1616-18Male Contact - Pin, Gold-plated1616-18Female Contact - Socket, Gold-plated1616-18Male Contact - Pin, Nickel-plated1616-20Female Contact - Socket, Nickel-plated1616-20Male Contact - Pin, Gold-plated1616-20Female Contact - Socket, Gold-plated1616-20Male Contact - Pin, Tin-plated1616-20Female Contact - Pin, Tin-plated1616-20Male Contact - Pin, Nickel-plated1616-20Male Contact - Socket, Tin-plated1616-20Male Contact - Pin, Nickel-plated1620-22Female Contact - Socket, Nickel-plated1620-22Male Contact - Pin, Gold-plated1620-22		

	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			