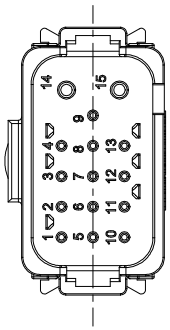
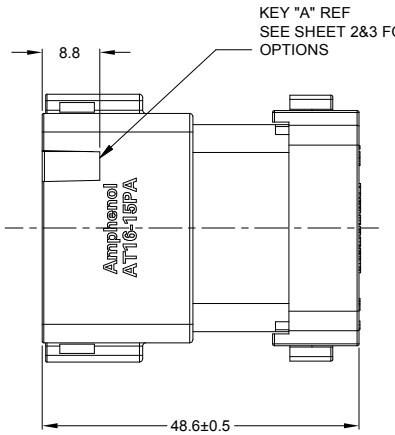
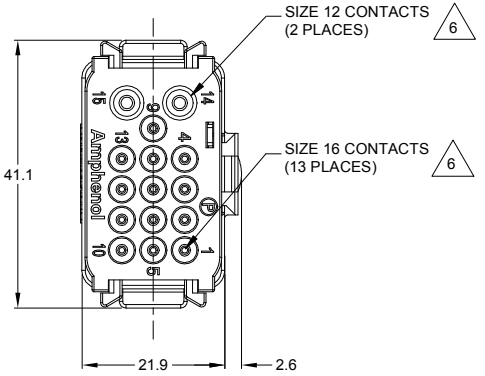
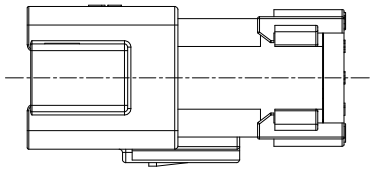
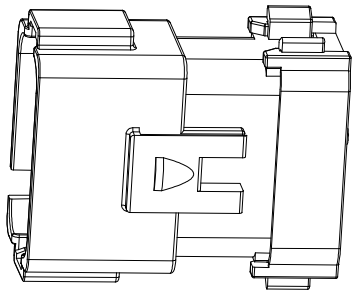
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	27/JUL/2021	LOUIE	TOMMY











NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:
   HOUSING: THERMOPLASTIC; COLOR: SEE CHART
   END CAP: THERMOPLASTIC; COLOR: BLACK
   SEALS: SILICONE RUBBER; COLOR: GREEN(REAR SEAL)

2. MODIFICATIONS: END CAP, REDUCED DIAMETER SEAL.

3. SPECIFICATIONS:
   3.1 CURRENT RATING: SIZE 16, 13 AMPS; SIZE 12, 25 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

4. MATING PART: AT16-15SX-* PLUG
   (X = A,B,C,D,E KEYS, * = ALL MODIFICATIONS)

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

△6 CONTACT SIZE AND REAR SEAL WIRE RANGE

CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE
12	2.46 mm (.097 in)	4.01 mm (.158 in)	10 - 14 AWG (3.0-2.0)
16	1.35 mm (.053 in)	3.05 mm (.120 in)	14 - 20 AWG (2.0-0.5)

	SEE CHART		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

UNLESS OTHERWISE SPECIFIED
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
3) Note reference = △X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

SIGNATURES		DATE
DRAWN:	LOUIE.YIN	27/JUL/2021
CHECKED:	ORION.LI	29/JUL/2021
ENGINEER:		
APPROVAL:	TOMMY.XIE	29/JUL/2021
CUSTOMER:		

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SINE Systems Corporation
A Subsidiary of Amphenol Corporation
44724 Morley Drive
Clinton Township, MI 48036

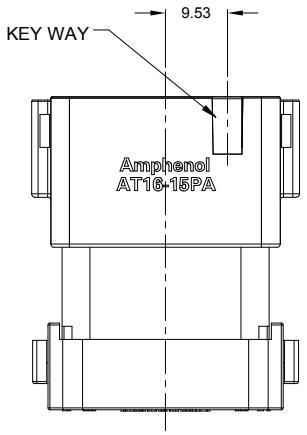
15 POSITION RECEPTACLE, PIN,AT SERIES

SIZE	FSCM NO.	DWG NO:	REVISION
B	C-	AT16-15PX-XXXX	A1

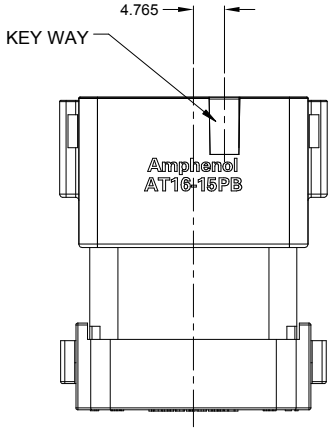
SCALE: NONE SHEET 1 OF 3

TITLE: 15 POSITION RECEPTACLE, PIN,AT SERIES
DWG NO: AT16-15PX-XXXX
REV: A1
SH: 1
OF: 3

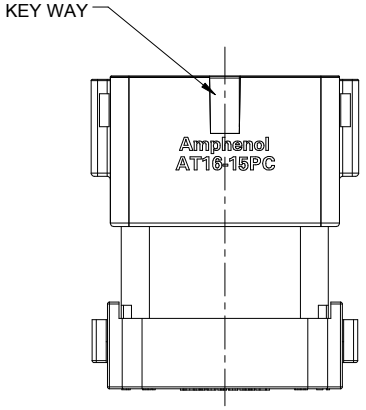
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	27/JUL/2021	LOUIE	TOMMY



KEY-A CONFIGURATION	
PART NUMBER	COLOR OF HOUSING
AT16-15PA-K003	BLACK
AT16-15PA-EK02	GRAY



KEY-B CONFIGURATION	
PART NUMBER	COLOR OF HOUSING
AT16-15PB-K003	BLACK



KEY-C CONFIGURATION	
PART NUMBER	COLOR OF HOUSING
AT16-15PC-K003	BLACK
AT16-15PC-EK02	GREEN

	SEE CHART		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

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2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

SIGNATURES		DATE
DRAWN:	LOUIE.YIN	27/JUL/2021
CHECKED:	ORION.LI	29/JUL/2021
ENGINEER:		
APPROVAL:	TOMMY.XIE	29/JUL/2021
CUSTOMER:		

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Clinton Township, MI 48036

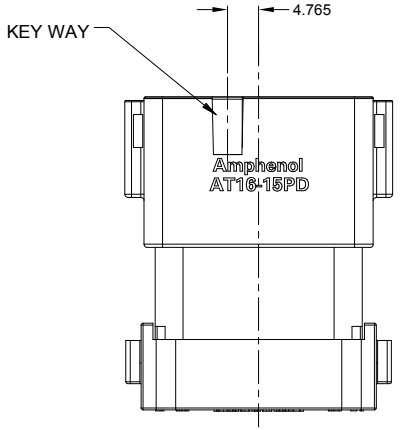
15 POSITION RECEPTACLE, PIN,AT SERIES

SIZE	FSCM NO.	DWG NO:	REVISION
B	C-	AT16-15PX-XXXX	A1

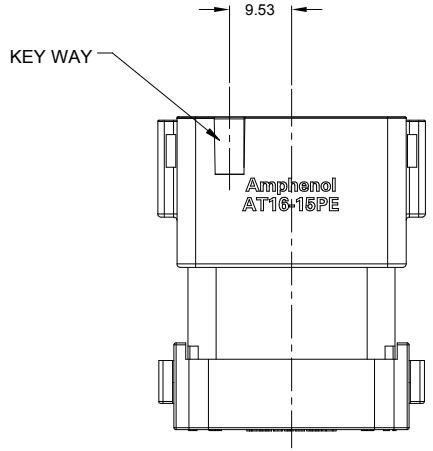
SCALE: NONE SHEET 2 OF 3

TITLE: 15 POSITION RECEPTACLE, PIN,AT SERIES
DWG NO: AT16-15PX-XXXX
REV: A1
SH: 2
OF: 3

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	27/JUL/2021	LOUIE	TOMMY



KEY-D CONFIGURATION	
PART NUMBER	COLOR OF HOUSING
AT16-15PD-K003	BLACK
AT16-15PD-EK02	BROWN



KEY-E CONFIGURATION	
PART NUMBER	COLOR OF HOUSING
AT16-15PE-K003	BLACK
AT16-15PE-EK02	GRAY

	SEE CHART		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in metric(mm).
2) Tolerance are as follows:
1 PL DEC ±0.30 | Fractions ±1/64
2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

SIGNATURES		DATE
DRAWN:	LOUIE.YIN	27/JUL/2021
CHECKED:	ORION.LI	29/JUL/2021
ENGINEER:		
APPROVAL:	TOMMY.XIE	29/JUL/2021
CUSTOMER:		

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44724 Morley Drive
Clinton Township, MI 48036

15 POSITION RECEPTACLE, PIN,AT SERIES

SIZE	FSCM NO.	DWG NO:	REVISION
B	C-	AT16-15PX-XXXX	A1

SCALE: NONE SHEET 3 OF 3

TITLE: 15 POSITION RECEPTACLE, PIN,AT SERIES
DWG NO: AT16-15PX-XXXX
REV: A1
SH: 3
OF: 3

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

ATP Series™ - Contact Size 12 Options

Machined Contacts, Sockets & Pins				
Part Number	**Description**	**Size**	**AWG**	**Type**
AT60-204-12141-10	Male Contact - Pin, Nickel-plated	12	10-12	Machined
AT62-203-12141-10	Female Contact - Socket, Nickel-plated	12	10-12	Machined
AT60-220-1231	Male Contact - Pin, Gold-plated	12	12-14	Machined
AT62-210-1231	Female Contact - Socket, Gold-plated	12	12-14	Machined
AT60-204-12141	Male Contact - Pin, Nickel-plated	12	12-14	Machined
AT62-203-12141	Female Contact - Socket, Nickel-plated	12	12-14	Machined

DiagnosticGrade™ Machined Contacts, Sockets & Pins • Smaller AWG for Diagnostic Applications • Gold-plated • Increased Mating Cycles • Cost-effective				
Part Number	**Description**	**Size**	**AWG**	**Type**
65-54749	Male Contact - DiagnosticGrade™, Pin, Gold-plated	12	20	Machined
AT62-210-1231-1820	Female Contact - DiagnosticGrade™, Socket, Gold-plated	12	20	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
	AT11-337-1205	Contact Removal Tool, Plastic, Size 12
	A114017	Sealing Plug, Size 12, White

Stamped & Formed Contacts, Sockets & Pins				
Part Number	**Description**	**Size**	**AWG**	**Type**
AT60-12-0244	Male Contact - Pin, Gold-plated	12	10-12	Stamped & Formed
AT62-12-0244	Female Contact - Socket, Gold-plated	12	10-12	Stamped & Formed
AT60-12-0222	Male Contact - Pin, Nickel-plated	12	10-12	Stamped & Formed
AT62-12-0222	Female Contact - Socket, Nickel-plated	12	10-12	Stamped & Formed
AT60-12-0144	Male Contact - Pin, Gold-plated	12	12-14	Stamped & Formed
AT62-12-0144	Female Contact - Socket, Gold-plated	12	12-14	Stamped & Formed
AT60-12-0166	Male Contact - Pin, Nickel-plated	12	12-14	Stamped & Formed
AT62-12-0166	Female Contact - Socket, Nickel-plated	12	12-14	Stamped & Formed

Tooling - Stamped & Formed Contacts		
Part	**Part Number**	**Description**
	MFX-3973	Crimp Die - Size 12 (S&F contacts only)
	MFX-3985	Crimp Die - Size 12 (S&F contacts only) 10-12AWG -02XX Series
	ATT-12-00	Hand Crimp Tool - Size 12, 12AWG (S&F contacts only)

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