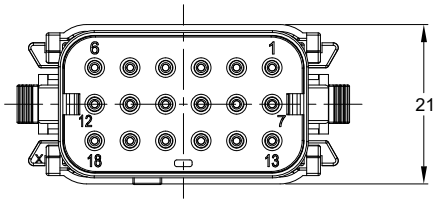
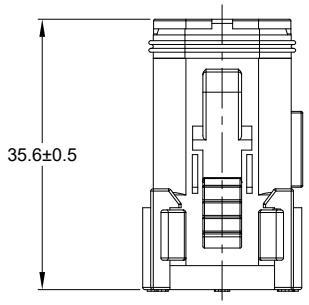
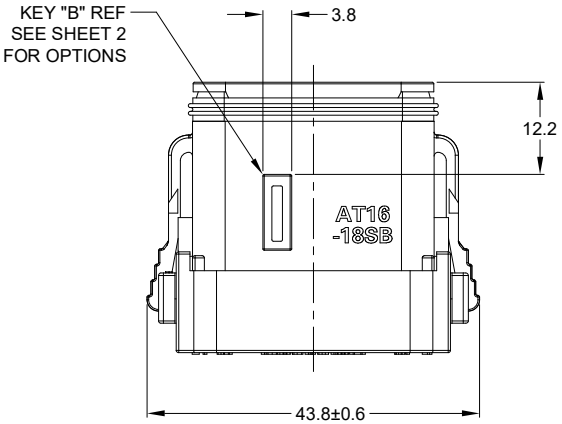
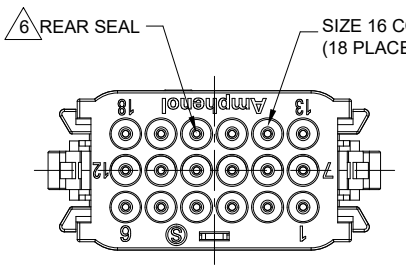
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A3	-	RELEASE	12JAN2015	JAH	-
A4	-	ADDED RD VERSIONS AND CHART	27AUG2019	JAH	-
A5	-	ADDED SR AND EK02 VERSIONS, COLORS	31OCT2019	JAH	-
A6	-	UPDATE DRAWING	14FEB2020	ZENIN	TOMMY
A7	-	UPDATE DRAWING	27FEB2020	ZENIN	TOMMY









NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:
   HOUSING: THERMOPLASTIC; COLOR: SEE CHART
   END CAP: THERMOPLASTIC; COLOR: BLACK
   STRAIN RELIEF CAP: THERMOPLASTIC; COLOR: BLACK
   SEALS: SILICONE RUBBER. FRONT SEAL: RED,
   REAR SEAL: GREEN

2. MODIFICATIONS: END CAP, STRAIN RELIEF CAP (OPT).

3. 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: AT16-18PX-* RECEPTACLES
   (X = A,B,C,D,E KEYS; * = MODIFICATIONS AND COLORS)

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
16	1.35 mm (.053 in)	3.05 mm (.120 in)	14 - 20 AWG

	SEE P/N CHART	93445711, 93445712I, 93445731, 93445714I, 93445715I, 93445751, 93445752I, 93445753I, 93445754I, 93445755I DT16-18SA-K004, DT16-18SB-K004, DT16-18SC-K004, DT16-18SD-K004, DT16-18SE-K004 DT16-18SA-EK02, DT16-18SB-EK02, DT16-18SC-EK02, DT16-18SD-EK02, DT16-18SE-EK02	
	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 ASSY:

SIGNATURES		DATE
DRAWN:	ZENIN.DENG	27FEB20
CHECKED:	ORION.LI	27FEB20
ENGINEER:		
APPROVAL:	TOMMY.XIE	27FEB20
CUSTOMER:		

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

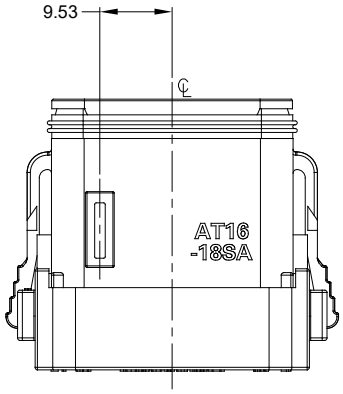
AT SERIES, PLUG, 18 SOCKET

SIZE	FSCM NO.	DWG NO:	REVISION
B	—	C- AT16-18SX-XXXXXX	A7

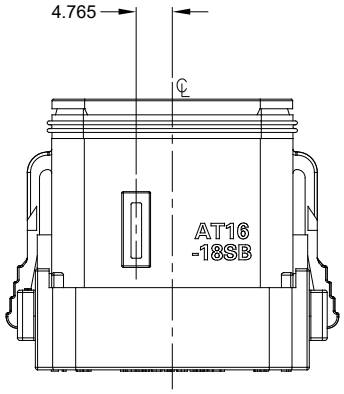
SCALE: NONE SHEET 1 OF 2

TITLE: AT SERIES, PLUG, 18 SOCKET
DWG NO: C- AT16-18SX-K004XX
REV: A7
SH: 1
OF: 2

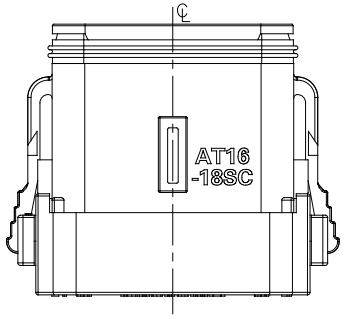
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A3	-	RELEASE	12JAN2015	JAH	-
A4	-	ADDED RD VERSIONS AND CHART	27AUG2019	JAH	-
A5	-	ADDED SR AND EK02 VERSIONS, COLORS	31OCT2019	JAH	-
A6	-	UPDATE DRAWING	14FEB2020	ZENIN	TOMMY
A7	-	UPDATE DRAWING	27FEB2020	ZENIN	TOMMY



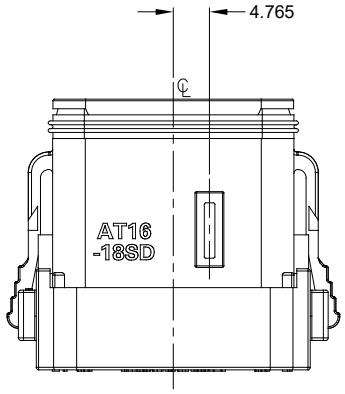
KEY-A CONFIGURATION		
PART NUMBER	STRAIN RELIEF	COLOR
AT16-18SA-K004	NO	BLACK
AT16-18SA-EK02	NO	GRAY
AT16-18SA-SR02	YES	BLACK
AT16-18SA-EKSR02	YES	GRAY



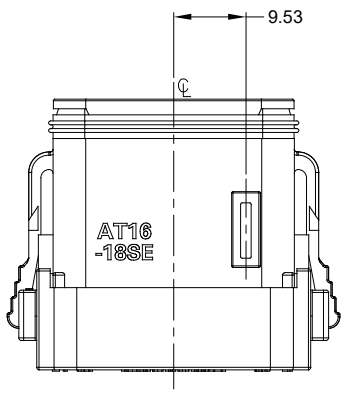
KEY-B CONFIGURATION		
PART NUMBER	STRAIN RELIEF	COLOR
AT16-18SB-K004	NO	BLACK
AT16-18SB-SR02	YES	BLACK



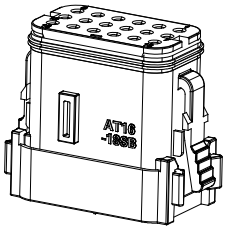
KEY-C CONFIGURATION		
PART NUMBER	STRAIN RELIEF	COLOR
AT16-18SC-K004	NO	BLACK
AT16-18SC-EK02	NO	GREEN
AT16-18SC-SR02	YES	BLACK
AT16-18SC-EKSR02	YES	GREEN



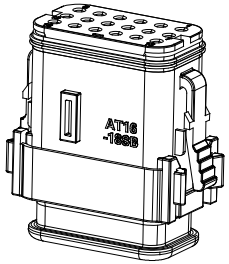
KEY-D CONFIGURATION		
PART NUMBER	STRAIN RELIEF	COLOR
AT16-18SD-K004	NO	BLACK
AT16-18SD-EK02	NO	BROWN
AT16-18SD-SR02	YES	BLACK
AT16-18SD-EKSR02	YES	BROWN



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



SHOWN WITH
END CAP



SHOWN WITH
STRAIN RELIEF

	SEE P/N CHART		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

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3 PL DEC ±0.08
3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASSY:

SIGNATURES		DATE
DRAWN:	ZENIN.DENG	27FEB20
CHECKED:	ORION.LI	27FEB20
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APPROVAL:	TOMMY.XIE	27FEB20
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AT SERIES, PLUG, 18 SOCKET

SIZE	FSCM NO.	DWG NO:	REVISION
B	—	C- AT16-18SX-XXXXXX	A7

SCALE NONE SHEET 2 OF 2

TITLE: AT SERIES, PLUG, 18 SOCKET
DWG NO: C- AT16-18SX-K004XX
REV: A7
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