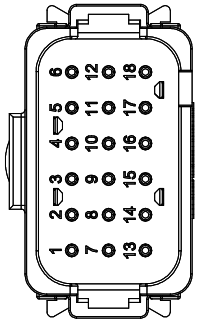
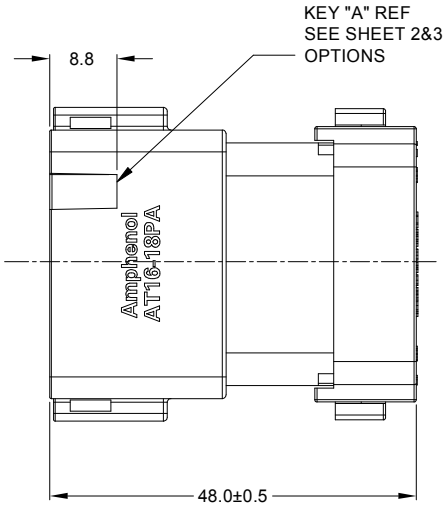
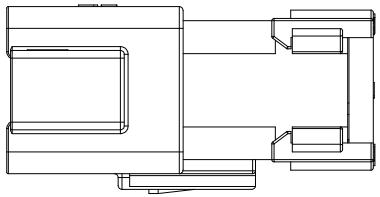
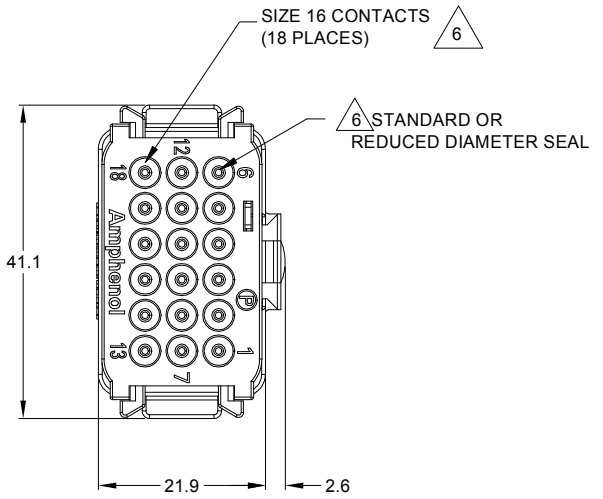
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASE DRAWING	30JUN2020	ZENIN	TOMMY
B2	-	TOTAL LENGTH SHORTEN 1.5mm	12OCT2020	ZENIN	TOMMY









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; COLOR: RED, RD COLOR: GREEN

2. MODIFICATIONS: END CAP, STRAIN RELIEF CAP (OPT),
   REDUCED DIAMETER SEAL,STANDARD DIAMETER SEAL (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:
   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: AT16-18SX-* PLUG
   (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

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

	SEE CHART	934447111,934447121,934447131,934447141,934447151, 934447511,934447521,934447531,934447541,934447551	
	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:	ZENIN.DENG	12OCT20
CHECKED:	ORION.LI	12OCT20
ENGINEER:		
APPROVAL:	TOMMY.XIE	12OCT20
CUSTOMER:		

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

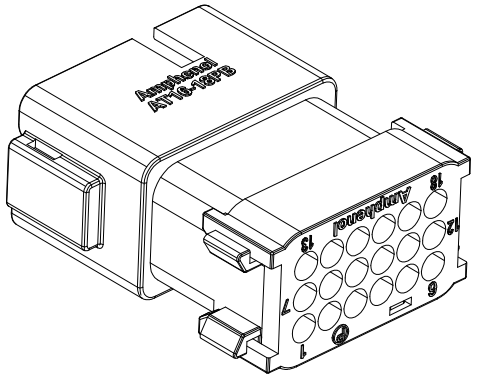
18 POSITION RECEPTACLE, PIN,AT SERIES

SIZE	FSCM NO.	DWG NO:	REVISION
B	C-	AT16-18PX-XXXXXX	B2

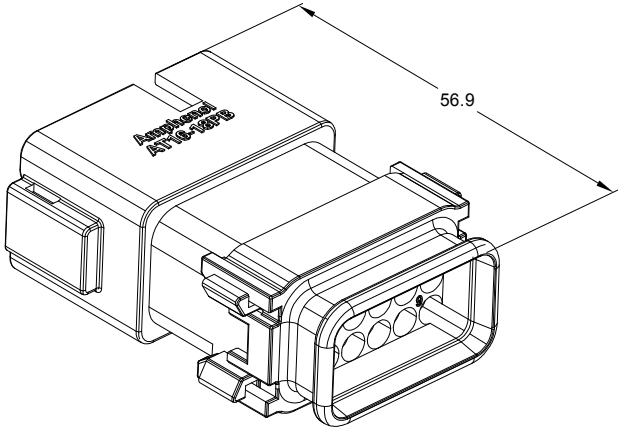
SCALE: NONE SHEET 1 OF 3

TITLE: 18 POSITION RECEPTACLE, PIN,AT SERIES
DWG NO: AT16-18PX-XXXXXX
REV: B2
SH: 1
OF: 3

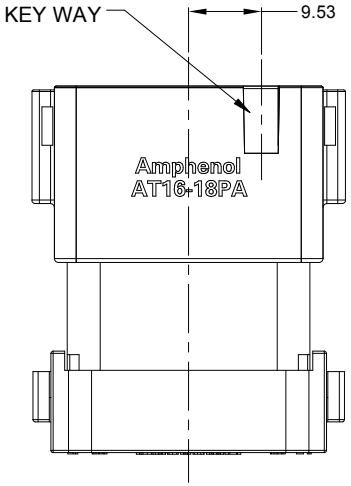
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASE DRAWING	30JUN2020	ZENIN	TOMMY
B2	-	TOTAL LENGTH SHORTEN 1.5mm	12OCT2020	ZENIN	TOMMY

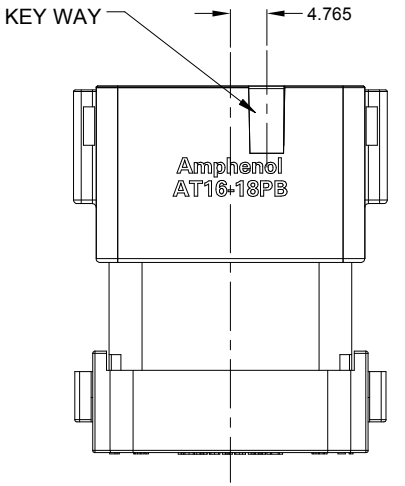


SHOWN WITH
END CAP



SHOWN WITH
STRAIN RELIEF





KEY-A CONFIGURATION			
PART NUMBER	STRAIN RELIEF	COLOR	SEAL
AT16-18PA-K004	NO	BLACK	REDUCED DIA.
AT16-18PA-EK02	NO	GRAY	REDUCED DIA.
AT16-18PA-SR02	YES	BLACK	REDUCED DIA.
AT16-18PA-EKSR02	YES	GRAY	REDUCED DIA.
AT16-18PA-K005	NO	BLACK	STANDARD
AT16-18PA-EK03	NO	GRAY	STANDARD
AT16-18PA-SR03	YES	BLACK	STANDARD
AT16-18PA-EKSR03	YES	GRAY	STANDARD

KEY-B CONFIGURATION			
PART NUMBER	STRAIN RELIEF	COLOR	SEAL
AT16-18PB-K004	NO	BLACK	REDUCED DIA.
AT16-18PB-SR02	YES	BLACK	REDUCED DIA.
AT16-18PB-K005	NO	BLACK	STANDARD
AT16-18PB-SR03	YES	BLACK	STANDARD

	SEE CHART		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

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3) Note reference = X

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

SIGNATURES		DATE
DRAWN:	ZENIN.DENG	12OCT20
CHECKED:	ORION.LI	12OCT20
ENGINEER:		
APPROVAL:	TOMMY.XIE	12OCT20
CUSTOMER:		

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18 POSITION RECEPTACLE, PIN,AT SERIES

SIZE	FSCM NO.	DWG NO:	REVISION
B	C-	AT16-18PX-XXXXXX	B2

SCALE: NONE | SHEET 2 OF 3

TITLE: 18 POSITION RECEPTACLE, PIN,AT SERIES
DWG NO: AT16-18PX-XXXXXX
REV: B2
SH: 2
OF: 3

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASE DRAWING	30JUN2020	ZENIN	TOMMY
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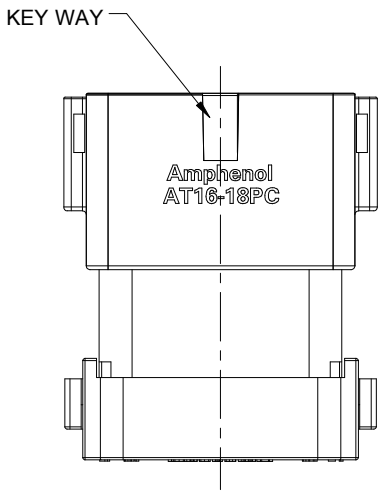
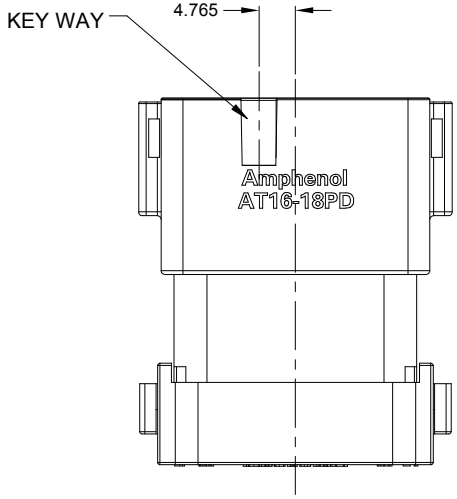
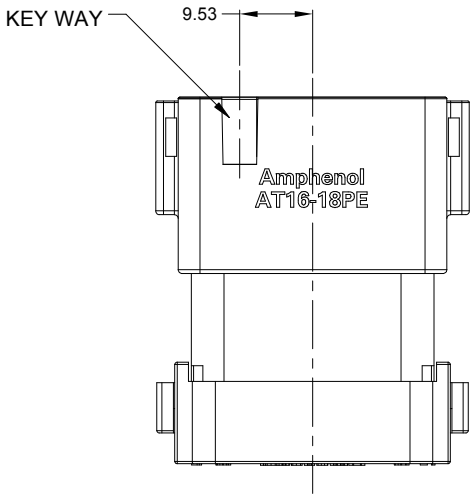


KEY-C CONFIGURATION			
PART NUMBER	STRAIN RELIEF	COLOR	SEAL
AT16-18PC-K004	NO	BLACK	REDUCED DIA.
AT16-18PC-EK02	NO	GREEN	REDUCED DIA.
AT16-18PC-SR02	YES	BLACK	REDUCED DIA.
AT16-18PC-EKSR02	YES	GREEN	REDUCED DIA.
AT16-18PC-K005	NO	BLACK	STANDARD
AT16-18PC-EK03	NO	GREEN	STANDARD
AT16-18PC-SR03	YES	BLACK	STANDARD
AT16-18PC-EKSR03	YES	GREEN	STANDARD



KEY-D CONFIGURATION			
PART NUMBER	STRAIN RELIEF	COLOR	SEAL
AT16-18PD-K004	NO	BLACK	REDUCED DIA.
AT16-18PD-EK02	NO	BROWN	REDUCED DIA.
AT16-18PD-SR02	YES	BLACK	REDUCED DIA.
AT16-18PD-EKSR02	YES	BROWN	REDUCED DIA.
AT16-18PD-K005	NO	BLACK	STANDARD
AT16-18PD-EK03	NO	BROWN	STANDARD
AT16-18PD-SR03	YES	BLACK	STANDARD
AT16-18PD-EKSR03	YES	BROWN	STANDARD



KEY-E CONFIGURATION			
PART NUMBER	STRAIN RELIEF	COLOR	SEAL
AT16-18PE-K004	NO	BLACK	REDUCED DIA.
AT16-18PE-EK02	NO	GRAY	REDUCED DIA.
AT16-18PE-SR02	YES	BLACK	REDUCED DIA.
AT16-18PE-EKSR02	YES	GRAY	REDUCED DIA.
AT16-18PE-K005	NO	BLACK	STANDARD
AT16-18PE-EK03	NO	GRAY	STANDARD
AT16-18PE-SR03	YES	BLACK	STANDARD
AT16-18PE-EKSR03	YES	GRAY	STANDARD

	SEE CHART		
	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

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18 POSITION RECEPTACLE, PIN,AT SERIES

SIZE	FSCM NO.	DWG NO:	REVISION
B	C-	AT16-18PX-XXXXXX	B2

SCALE: NONE SHEET 3 OF 3

TITLE: 18 POSITION RECEPTACLE, PIN,AT SERIES
DWG NO: AT16-18PX-XXXXXX
REV: B2
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

Sealing Plugs		
Part	**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**
AT60-14-0144	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)