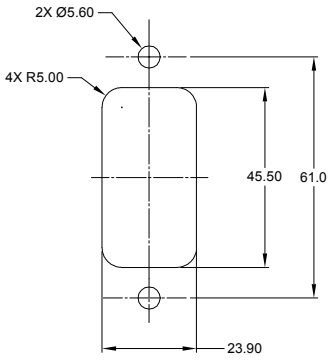
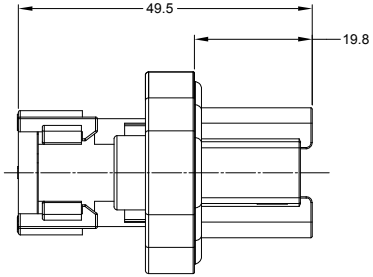
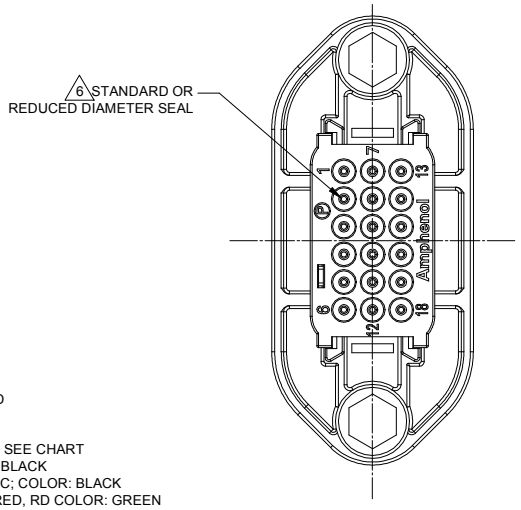
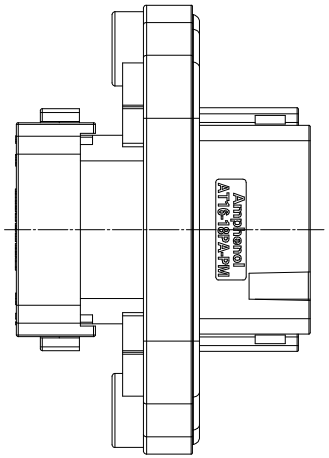
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	30JUN2020	ZENIN	TOMMY

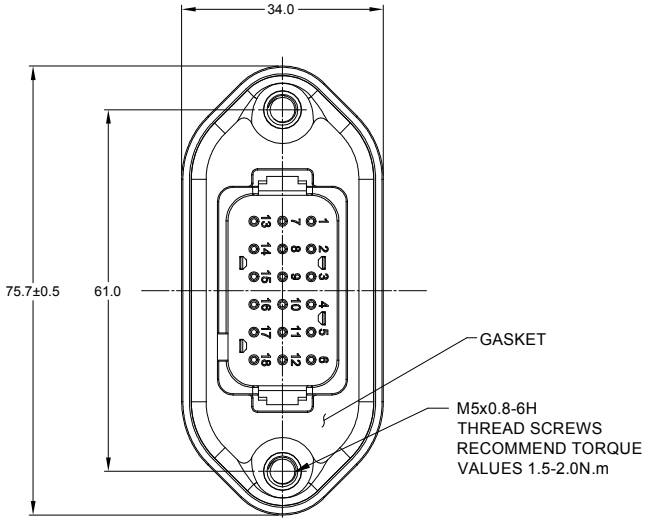


MOUNTING PLATE SIZE









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: FLANGE, GASKET, END CAP, STRAIN
   RELIEF CAP (OPT), REDUCED DIAMETER SEAL,STANDARD 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-* PLUGS
   (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		
	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 = 6

SIGNATURES		DATE
DRAWN:	ZENIN.DENG	28/JUN/20
CHECKED:	ORION.LI	29/JUN/20
ENGINEER:		
APPROVAL:	TOMMY.XIE	30/JUN/20
CUSTOMER:		

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

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

18 POSITION RECEPTACLE, PIN,PANELMATE AT SERIES

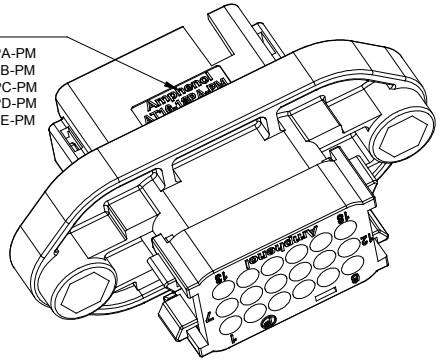
SIZE	TYPE	DWG NO:	REVISION
B	C-	AT16-18PX-PMXX	A1

SCALE: NONE SHEET 1 OF 3

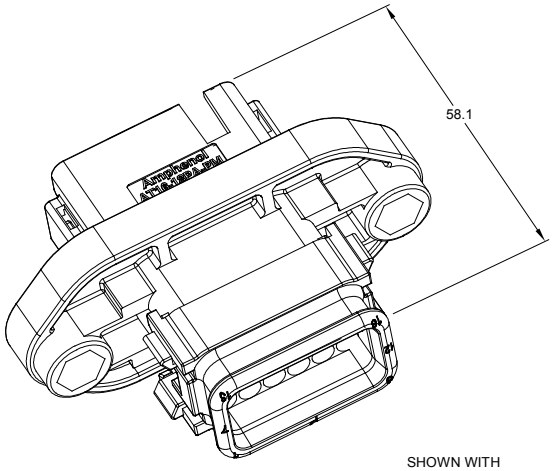
TITLE: 18 POSITION RECEPTACLE, PIN,PANELMATE,AT SERIES
DWG NO: AT16-18PX-PMXX
REV: A1
SH: 1
OF: 3

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	30/JUN/20	ZENIN	TOMMY

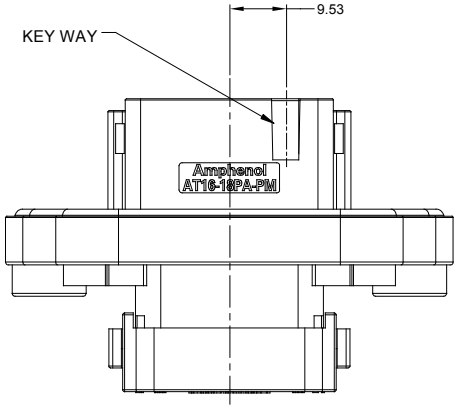
LOGO AND P/N
A-KEYED P/N:AT16-18PA-PM
B-KEYED P/N:AT16-18PB-PM
C-KEYED P/N:AT16-18PC-PM
D-KEYED P/N:AT16-18PD-PM
E-KEYED P/N:AT16-18PE-PM



SHOWN WITH
END CAP

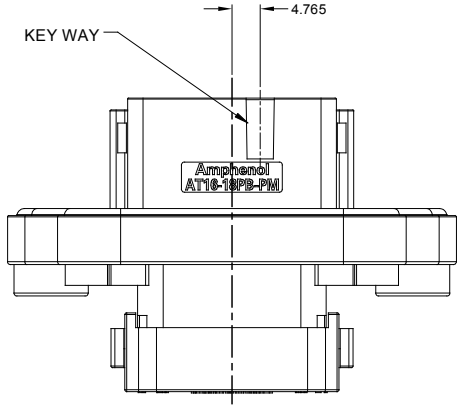


SHOWN WITH
STRAIN RELIEF



P/N AT16-18PA-PMXX
KEY-A CONFIGURATION
COLOR: GRAY

KEY-A CONFIGURATION		
PART NUMBER	STRAIN RELIEF	SEAL
AT16-18PA-PM11	NO	REDUCED DIA.
AT16-18PA-PM15	YES	REDUCED DIA.
AT16-18PA-PM12	NO	STANDARD
AT16-18PA-PM16	YES	STANDARD



P/N AT16-18PB-PMXX
KEY-B CONFIGURATION
COLOR: BLACK

KEY-B CONFIGURATION		
PART NUMBER	STRAIN RELIEF	SEAL
AT16-18PB-PM11	NO	REDUCED DIA.
AT16-18PB-PM15	YES	REDUCED DIA.
AT16-18PB-PM12	NO	STANDARD
AT16-18PB-PM16	YES	STANDARD

	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:	ZENIN.DENG	28/JUN/20
CHECKED:	ORION.LI	29/JUN/20
ENGINEER:		
APPROVAL:	TOMMY.XIE	30/JUN/20
CUSTOMER:		

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44724 Morley Drive
Clinton Township, MI 48036

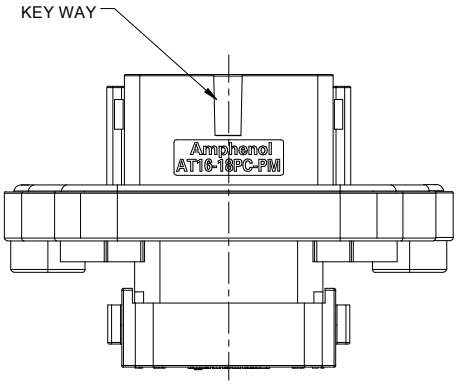
18 POSITION RECEPTACLE, PIN,PANELMATE AT SERIES

SIZE	TYPE	DWG NO:	REVISION
B	C-	AT16-18PX-PMXX	A1

SCALE: NONE | SHEET 2 OF 3

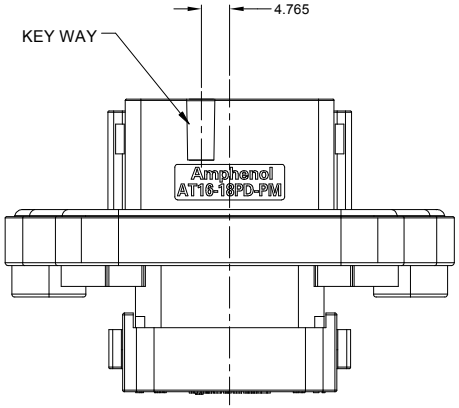
TITLE: 18 POSITION RECEPTACLE, PIN,PANELMATE,AT SERIES
DWG NO: AT16-18PX-PMXX
REV: A1
SH: 2
OF: 3

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE DRAWING	30/JUN/20	ZENIN	TOMMY



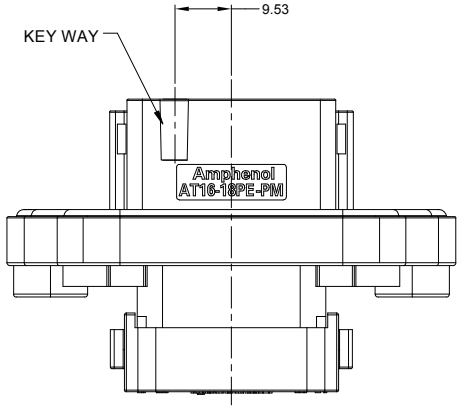
P/N AT16-18PC-PMXX
KEY-C CONFIGURATION
COLOR: GREEN

KEY-C CONFIGURATION		
PART NUMBER	STRAIN RELIEF	SEAL
AT16-18PC-PM11	NO	REDUCED DIA.
AT16-18PC-PM15	YES	REDUCED DIA.
AT16-18PC-PM12	NO	STANDARD
AT16-18PC-PM16	YES	STANDARD



P/N AT16-18PD-PMXX
KEY-D CONFIGURATION
COLOR: BROWN

KEY-D CONFIGURATION		
PART NUMBER	STRAIN RELIEF	SEAL
AT16-18PD-PM11	NO	REDUCED DIA.
AT16-18PD-PM15	YES	REDUCED DIA.
AT16-18PD-PM12	NO	STANDARD
AT16-18PD-PM16	YES	STANDARD



P/N AT16-18PE-PMXX
KEY-E CONFIGURATION
COLOR: GRAY

KEY-E CONFIGURATION		
PART NUMBER	STRAIN RELIEF	SEAL
AT16-18PE-PM11	NO	REDUCED DIA.
AT16-18PE-PM15	YES	REDUCED DIA.
AT16-18PE-PM12	NO	STANDARD
AT16-18PE-PM16	YES	STANDARD

	PART NUMBER	DESCRIPTION	ITEM
QUANTITY	MATERIALS LIST		

UNLESS OTHERWISE SPECIFIED
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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	28/JUN/20
CHECKED:	ORION.LI	29/JUN/20
ENGINEER:		
APPROVAL:	TOMMY.XIE	30/JUN/20
CUSTOMER:		

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Clinton Township, MI 48036

18 POSITION RECEPTACLE, PIN,PANELMATE AT SERIES

SIZE	TYPE	DWG NO:	REVISION
B	C-	AT16-18PX-PMXX	A1

SCALE: NONE SHEET 3 OF 3

TITLE: 18 POSITION RECEPTACLE, PIN,PANELMATE,AT SERIES
DWG NO: AT16-18PX-PMXX
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

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)