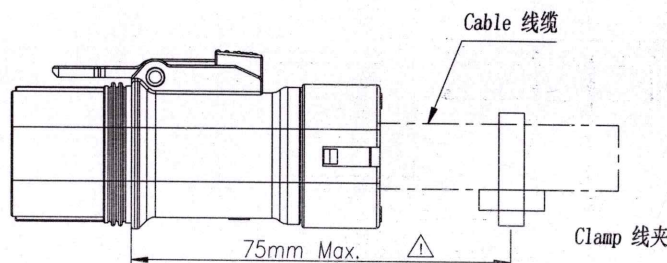
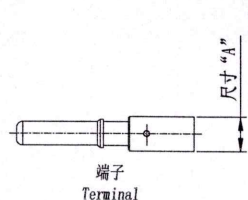
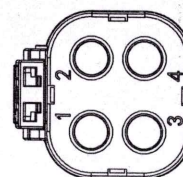
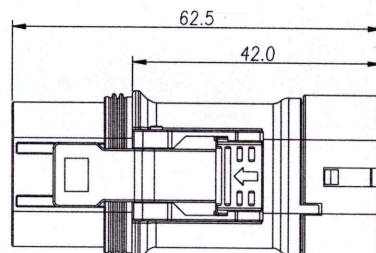
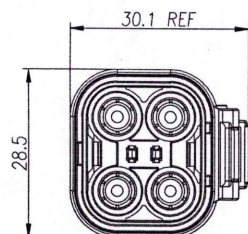
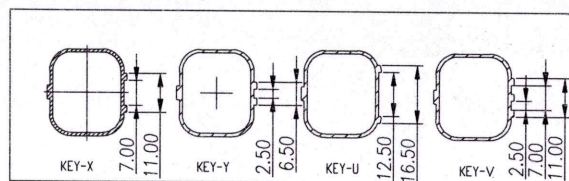


Customer Drawing

Amphenol TPI
2020-09-23
REGISTERED COPY

6		7		8	
REV	ZONE	ECO	DESCRIPTION	DATE	BY
A	---	---	INITIAL RELEASE	09/15/20	Fred
				APPR	JL



Note:

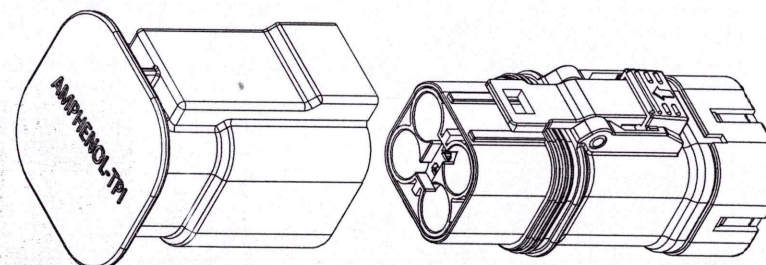
Mechanical loads applied to the connector must be controlled by appropriate strain relief of the cable. No bend/twist/flex is allowed on cable prior to securement. Cable must be fixed to a point structurally contiguous with the receptacle connector within 75mm. from the mating interface of the plug and receptacle. No relative movement between receptacle and first cable securing device is permissible. Strain relief distance should be minimized for all applications

规格参数 (Spec.):

1. 工作温度 Operating temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
2. 额定电流 Current rating (connector only):
2.5mm²: 25A, 4mm²: 35A, 6mm²: 45A.
3. 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
4. 耐电压 Dielectric withstanding voltage:
pin to pin/shell: 5000 VDC 60S 漏电流 <5mA;
HVIL to HVIL/shell 500 VDC 60S 漏电流 <5mA.
5. 防护等级 Protection class: IP67 (水深1m, 浸泡0.5h) & IP2X.
6. 阻燃等级 Flame Rating 绝缘件 UL94-V0 密封件 UL94-HB
7. 电磁屏蔽 Shielding.
8. 机械寿命 Mating cycle: 100 Min.
9. 带自动二次锁扣 Automatic secondary lock.
10. 带高压互锁 Electrical interlock (HVIL).
11. 对配插座见图纸 Mating receptacle see drawing: "PL084-40".

订购信息 Ordering Information

PL18 4 X - 4 1 - 6 B			
键位 Key	高压互锁 HVIL	线缆大小 Cable Size	
"X"	0, 不带互锁 No HVIL	"6"=6mm ²	
"Y"	1, 带互锁 With HVIL	"4"=4mm ²	
"U"		"2.5"=2.5mm ²	
"V"			



Standard Part List (With HVIL)

P/N	Model NO.	Recommended Wire OD	Dimension "A"	Mating Rcpt Model NO.
AC-HA016800	PL184X-41-2.5B	5.0~5.4mm	ø4.00mm	PL084X-41-2.5B
AC-HA016801	PL184Y-41-2.5B			PL084Y-41-2.5B
AC-HA016802	PL184U-41-2.5B			PL084U-41-2.5B
AC-HA016803	PL184V-41-2.5B			PL084V-41-2.5B
AC-HA016804	PL184X-41-4B	5.6~6.0mm	ø5.20mm	PL084X-41-4B
AC-HA016805	PL184Y-41-4B			PL084Y-41-4B
AC-HA016806	PL184U-41-4B			PL084U-41-4B
AC-HA016807	PL184V-41-4B			PL084V-41-4B
AC-HA016808	PL184X-41-6B	6.4~7.0mm	ø6.00mm	PL084X-41-6B
AC-HA016809	PL184Y-41-6B			PL084Y-41-6B
AC-HA016810	PL184U-41-6B			PL084U-41-6B
AC-HA016811	PL184V-41-6B			PL084V-41-6B

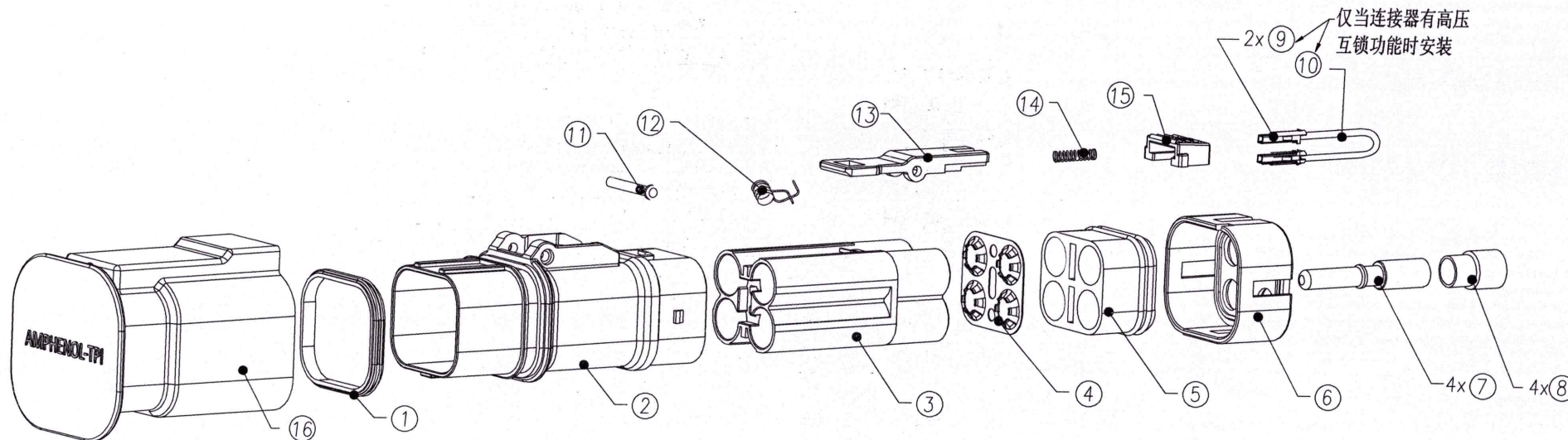
Standard Part List (Without HVIL)

P/N	Model NO.	Recommended Wire OD	Dimension "A"	Mating Plug Model NO.
AC-HA016812	PL184X-40-2.5B	5.0~5.4mm	ø4.00mm	PL084X-40-2.5B
AC-HA016813	PL184Y-40-2.5B			PL084Y-40-2.5B
AC-HA016814	PL184U-40-2.5B			PL084U-40-2.5B
AC-HA016815	PL184V-40-2.5B			PL084V-40-2.5B
AC-HA016816	PL184X-40-4B	5.6~6.0mm	ø5.20mm	PL084X-40-4B
AC-HA016817	PL184Y-40-4B			PL084Y-40-4B
AC-HA016818	PL184U-40-4B			PL084U-40-4B
AC-HA016819	PL184V-40-4B			PL084V-40-4B
AC-HA016820	PL184X-40-6B	6.4~7.0mm	ø6.00mm	PL084X-40-6B
AC-HA016821	PL184Y-40-6B			PL084Y-40-6B
AC-HA016822	PL184U-40-6B			PL084U-40-6B
AC-HA016823	PL184V-40-6B			PL084V-40-6B

AMPHENOL TPI		Amphenol Technical Products International Asia.					
第三角投影 THIRD ANGLE PROJECTION		页面 SHEET 1 of 2	幅面 SIZE A3	版次 REV. A	比例 SCALE	PART NAME: PwrLok 4.0mm 4POS Plug Conn	
签名 SIGNATURE Fred		日期 DATE 09/15/20		UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 0 PL DEC ±1.00 1 PL DEC ±0.50 2 PL DEC ±0.20		DWG NO.: PL184-4(1)-(0)B	
制图 DRAWN Fred		审核 CHECKED Sharon		批准 APPROVAL Sharon		CUST PART #: N/A	
				Angles ±1°		CUST REV.	

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6			7		8	
REV			REVISIONS			
ZONE			DESCRIPTION		DATE	BY
ECO			INITIAL RELEASE		09/15/20	Fred
						JL



Amphenol TPI
2020-09-23
REGISTERED COPY

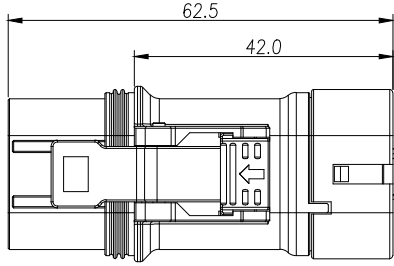
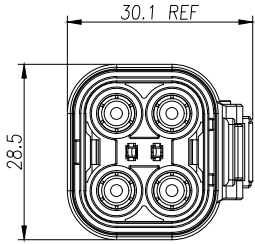
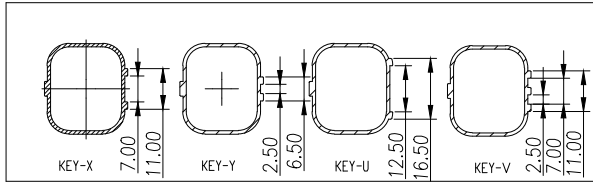
16	Dust Cap for Plug	1	LDPE	
15	PwrLok 5.7mm CPA	1	PA66	颜色随键位改变
14	Spring 0.3x2.2x16.9 SUS304	1	SUS304	
13	PwrLok Plug Press Latch	1	锌合金	镀镍5~8um
12	PwrLok Plug Torsion Spring	1	SUS304	
11	PwrLok peg	1	铜合金	镀镍3~5um
10	20AWG BK	0.04M	ETFE	
9	Mini-Fit Crimp Skt18-24AWG	2	铜合金	镀锡
8	Copper Sleeve 6mm2	4	铜合金	镀镍3~5um
7	Pin for Plug 6mm2	4	紫铜	镀银5~8um
6	Cover For Plug 6mm2	1	PA66	颜色随键位改变
5	Seal 3.6mm 4POS 6mm2	1	硅橡胶	
4	Shielding Spring	1	铜合金	镀镍3~5um
3	Housing For Plug	1	PA66	
2	Shell Plug 3.6mm 4POS X	1	锌合金	镀镍5~8um
1	Seal 3.6mm 4POS 23x3	1	硅橡胶	
序号	名称	数量	材料	表面处理

MATERIALS LIST

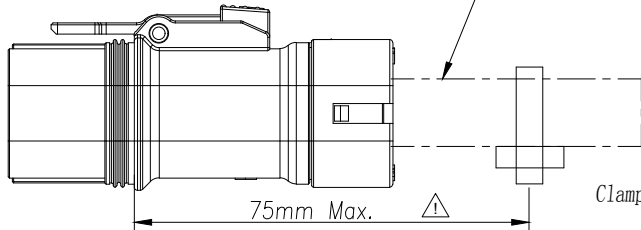
AMPHENOL TPI		Amphenol Technical Products International Asia.				
第三角投影 THIRD ANGLE PROJECTION		页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME: PwrLok 4.0mm 4POS Plug Conn
2 of 2		A3	A			
签名 SIGNATURE		日期 DATE		UNLESS OTHERWISE SPECIFIED		
制图 DRAWN		Fred		1) All dimensions are in metric(mm).		
审核 CHECKED		9.18		2) Tolerances are as follows:		
批准 APPROVAL		2020.9.18		0 PL DEC ±1.00		
				1 PL DEC ±0.50		
				2 PL DEC ±0.20		
				Angles ±1°		
				DWG NO: PL184(X)-4(1)-(0B)		
				CUST PART #: N/A		
				CUST REV.		

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Customer Drawing



Cable 线缆



Clamp 线夹



Note:

Mechanical loads applied to the connector must be controlled by appropriate strain relief of the cable. No bend/twist/flex is allowed on cable prior to securement. Cable must be fixed to a point structurally contiguous with the receptacle connector within 75mm. from the mating interface of the plug and receptacle. No relative movement between receptacle and first cable securing device is permissible. Strain relief distance should be minimized for all applications

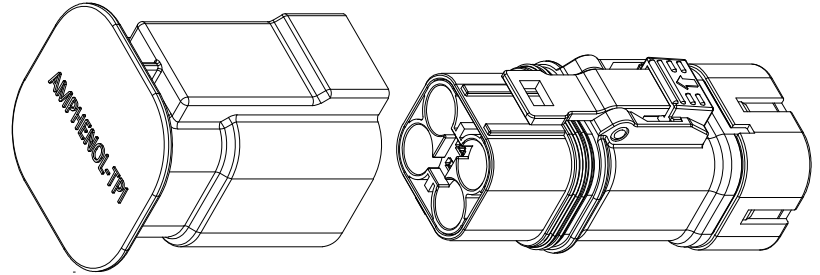
规格参数 (Spec.):

1. 工作温度 Operating temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
2. 额定电流 Current rating (connector only):
2.5mm²: 25A, 4mm²: 35A, 6mm²: 45A.
3. 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
4. 耐电压 Dielectric withstanding voltage:
pin to pin/shell: 5000 VDC 60S 漏电流 <5mA;
HVIL to HVIL/shell 500 VDC 60S 漏电流 <5mA.
5. 防护等级 Protection class: IP67 (水深1m, 浸泡0.5h) & IP2X.
6. 阻燃等级 Flame Rating 绝缘件 UL94-V0 密封件 UL94-HB
7. 电磁屏蔽 Shielding.
8. 机械寿命 Mating cycle: 100 Min.
9. 带自动二次锁扣 Automatic secondary lock.
10. 带高压互锁 Electrical interlock (HVIL).
11. 对配插座见图纸 Mating receptacle see drawing: "PL084-40".

订购信息 Ordering Information

PL18	4	X	-	4	1	-	6	B
键位 Key	高压互锁 HVIL			线缆大小 Cable Size				
"X"	0, 不带互锁 No HVIL			"6"=6mm ²				
"Y"	1, 带互锁 With HVIL			"4"=4mm ²				
"U"				"2.5"=2.5mm ²				
"V"								

REV		ZONE	ECO	DESCRIPTION		DATE	BY	APPR
A		--	--	INITIAL RELEASE		09/15/20	Fred	JL



Standard Part List (With HVIL)

P/N	Model NO.	Recommended Wire OD	Dimension "A"	Mating Rcpt Model NO.
AC-HA016800	PL184X-41-2.5B	5.0~5.4mm	Ø4.00mm	PL084X-41-2.5B
AC-HA016801	PL184Y-41-2.5B			PL084Y-41-2.5B
AC-HA016802	PL184U-41-2.5B			PL084U-41-2.5B
AC-HA016803	PL184V-41-2.5B	5.6~6.0mm	Ø5.20mm	PL084V-41-2.5B
AC-HA016804	PL184X-41-4B			PL084X-41-4B
AC-HA016805	PL184Y-41-4B			PL084Y-41-4B
AC-HA016806	PL184U-41-4B	6.4~7.0mm	Ø6.00mm	PL084U-41-4B
AC-HA016807	PL184V-41-4B			PL084V-41-4B
AC-HA016808	PL184X-41-6B			PL084X-41-6B
AC-HA016809	PL184Y-41-6B	6.4~7.0mm	Ø6.00mm	PL084Y-41-6B
AC-HA016810	PL184U-41-6B			PL084U-41-6B
AC-HA016811	PL184V-41-6B			PL084V-41-6B

Standard Part List (Without HVIL)

P/N	Model NO.	Recommended Wire OD	Dimension "A"	Mating Plug Model NO.
AC-HA016812	PL184X-40-2.5B	5.0~5.4mm	Ø4.00mm	PL084X-40-2.5B
AC-HA016813	PL184Y-40-2.5B			PL084Y-40-2.5B
AC-HA016814	PL184U-40-2.5B			PL084U-40-2.5B
AC-HA016815	PL184V-40-2.5B	5.6~6.0mm	Ø5.20mm	PL084V-40-2.5B
AC-HA016816	PL184X-40-4B			PL084X-40-4B
AC-HA016817	PL184Y-40-4B			PL084Y-40-4B
AC-HA016818	PL184U-40-4B	6.4~7.0mm	Ø6.00mm	PL084U-40-4B
AC-HA016819	PL184V-40-4B			PL084V-40-4B
AC-HA016820	PL184X-40-6B			PL084X-40-6B
AC-HA016821	PL184Y-40-6B	6.4~7.0mm	Ø6.00mm	PL084Y-40-6B
AC-HA016822	PL184U-40-6B			PL084U-40-6B
AC-HA016823	PL184V-40-6B			PL084V-40-6B



Amphenol Technical Products International Asia.

第三角投影 THIRD ANGLE PROJECTION		页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME:	
		1 of 2	A3	A		PwrLok 4.0mm 4POS Plug Conn	
签名 SIGNATURE		日期 DATE	UNLESS OTHERWISE SPECIFIED				DWG NO:
制图 DRAWN		Fred	1) All dimensions are in metric(mm). 2) Tolerances are as follows:				PL184-4(1)-(0)B
审核 CHECKED			0 PL DEC ±1.00 1 PL DEC ±0.50 2 PL DEC ±0.20				CUST PART #:
批准 APPROVAL			Angles ±1°				N/A
							CUST REV.

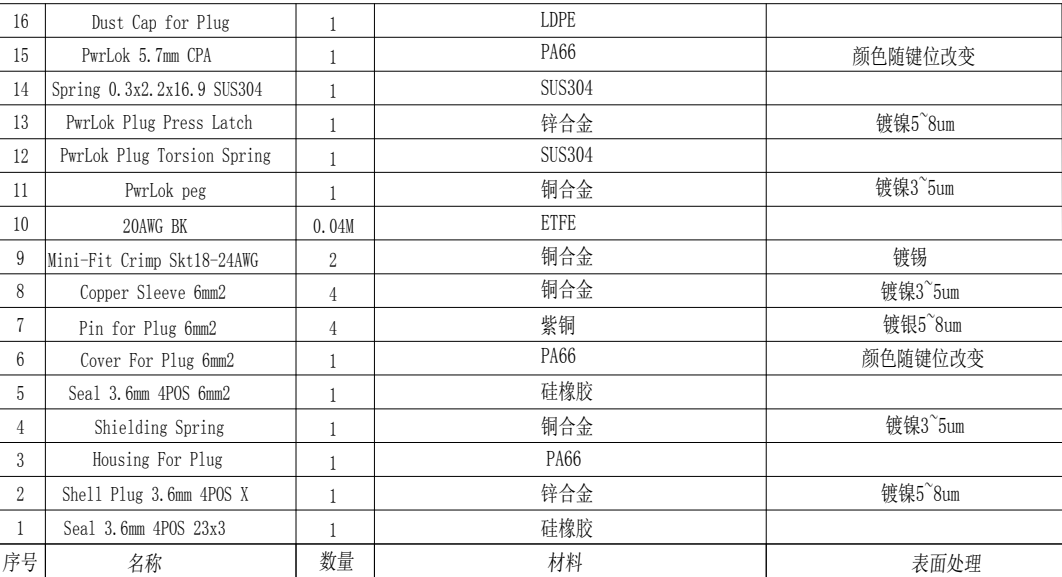
A
B
C
D
E
F

仅当连接器有高压
互锁功能时安装

2x (9) (10)

(4) (15)

(4) (5) (6) 4x (7) 4x (8)



1	2	3	4	5	6	7	8
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