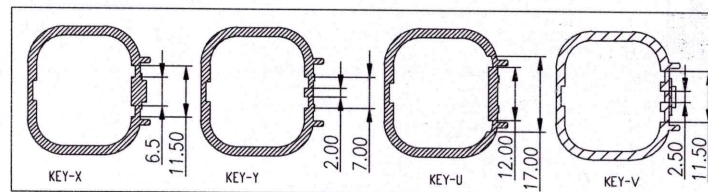
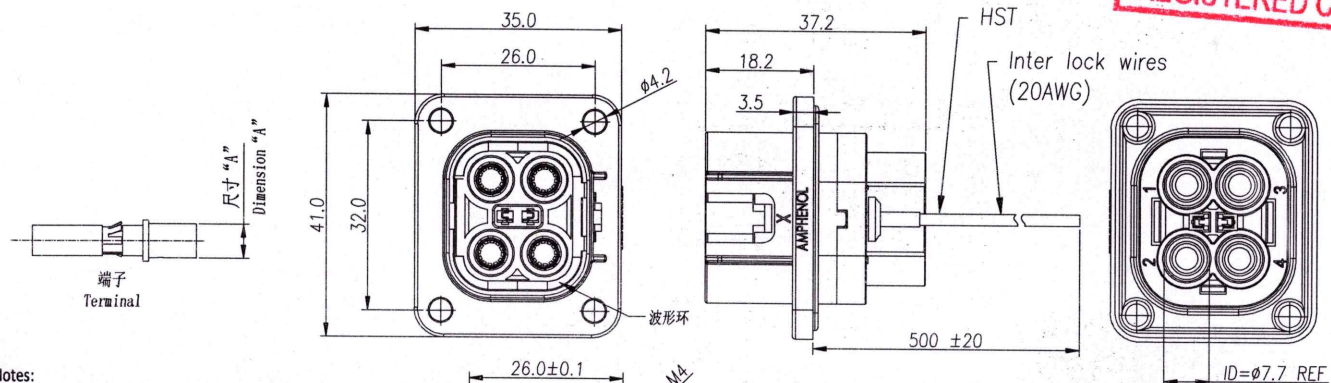
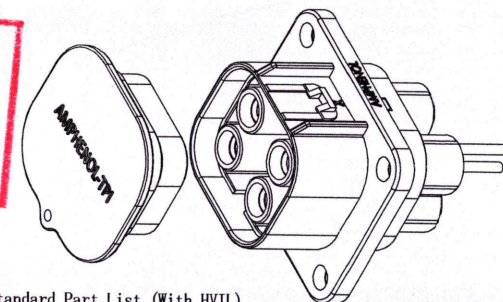


Customer Drawing

Amphenol TPI
2020-09-23
REGISTERED COPY

Notes:

- Surface Planeness of panel should be less than or equal to 0.2mm.
- Surface Roughness of panel should be Ra 3.2 or better.

规格参数 (Spec.):

- 工作温度 Operating temperature:
-40° C ~ +125° C.
- 带高压互锁 Electrical interlock (HVIL).
- 额定电流 Current rating (connector only):
2.5mm²: 25A, 4mm²: 35A, 6mm²: 45A; HVIL: 5A (20AWG).
- 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
- 耐电压 Dielectric withstanding voltage:
A. 与插头对插后, Pin与铁壳之间
After mating, between pin and metal shell: 5000 VDC 60S 漏电流 < 5mA.
B. 与插头对插后, Pin与HVIL之间
After mating, between pin and HVIL: 5000 VDC 60S 漏电流 < 5mA.
C. 与插头对插后, HVIL与铁壳之间
After mating, between HVIL and metal shell: 500 VDC 60S 漏电流 < 5mA.
D. 与插头对插前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals: 500 VDC 60S 漏电流 < 5mA.
- 防护等级 Protection Class: IP67 (水深1m, 浸泡0.5h) & IP2X.
- 阻燃等级 Flame Rating 绝缘件 UL94-V0 密封件 UL94-HB
- 电磁屏蔽 Shielding.
- 机械寿命 Mating cycle: 100 Min.
- 带自动二次锁扣 Automatic secondary lock.
- 接非屏蔽线 Accepts Unshielding Wire.
- 推荐法兰盘螺丝安装扭矩 Recommended Screw Assembly Torque on Flange: 1.6~2.4 Nm.

面板安装孔尺寸
Panel Size

订购信息 Ordering Information

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.	Dimension "A"	Cable size	Accepted cable OD
AC-HA016853	PL084X-41-2.5B	Ø3.70mm	2.5mm ²	<Ø7.5mm
AC-HA016854	PL084Y-41-2.5B			
AC-HA016855	PL084U-41-2.5B			
AC-HA016856	PL084V-41-2.5B			
AC-HA016857	PL084X-41-4B	Ø4.57mm	4mm ²	<Ø7.5mm
AC-HA016858	PL084Y-41-4B			
AC-HA016859	PL084U-41-4B			
AC-HA016860	PL084V-41-4B			
AC-HA016861	PL084X-41-6B	Ø5.80mm	6mm ²	<Ø7.5mm
AC-HA016862	PL084Y-41-6B			
AC-HA016863	PL084U-41-6B			
AC-HA016864	PL084V-41-6B			

Standard Part List (Without HVIL)

P/N	Model NO.	Dimension "A"	Cable size	
AC-HA016865	PL084X-40-2.5B	Ø3.70mm	2.5mm ²	<Ø7.5mm
AC-HA016866	PL084Y-40-2.5B			
AC-HA016867	PL084U-40-2.5B			
AC-HA016868	PL084V-40-2.5B			
AC-HA016869	PL084X-40-4B	Ø4.57mm	4mm ²	<Ø7.5mm
AC-HA016870	PL084Y-40-4B			
AC-HA016871	PL084U-40-4B			
AC-HA016872	PL084V-40-4B			
AC-HA016873	PL084X-40-6B	Ø5.80mm	6mm ²	<Ø7.5mm
AC-HA016874	PL084Y-40-6B			
AC-HA016875	PL084U-40-6B			
AC-HA016876	PL084V-40-6B			

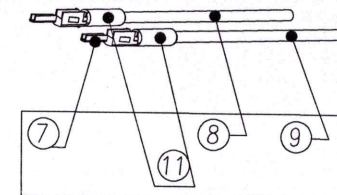
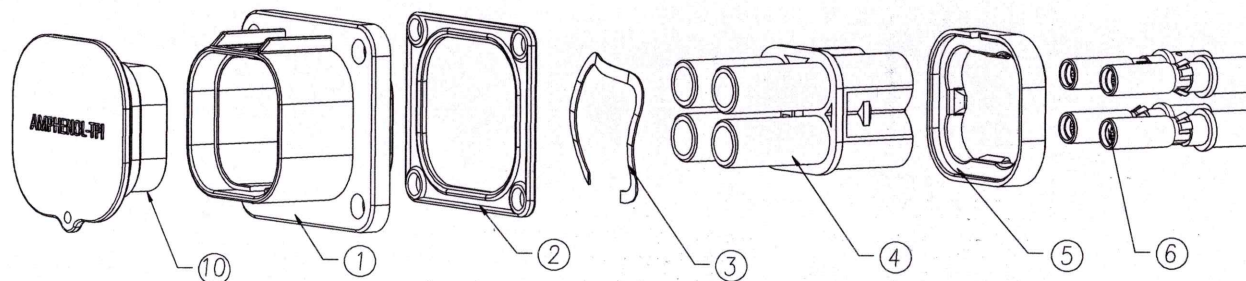
AMPHENOL
TPI

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 Rcpt Conn
1 of 2	A3	A			
签名 SIGNATURE	日期 DATE	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		Angles ±1°			
制图 DRAWN	Fred	09/18/20			DWG NO: PL084X(-)-4(1)-(1)B
审核 CHECKED	Sam	7/18			CUST PART #:
批准 APPROVAL	Sam	2020.9.18			N/A
					CUST REV.
					-

THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.

6			7		8	
REV			REVISIONS			
ZONE			ECO		DESCRIPTION	DATE
A			---		INITIAL RELEASE	09/18/20
					BY	APPR
					Fred	JL



仅当连接器有高压
互锁功能时安装



11	HST H-2(2) 2.0 BK	2		
10	PL3.6 4POS Rcpt Dust Cap	1		
9	20AWG RE	A/R	LDPE	
8	20AWG BK	A/R	ETFE	
7	Mini-Fit Crimp Pin18-24AWG	2	ETFE	镀锡
6	PwrLok Soc 4mm	4	铜合金	镀锡3~5um
5	3.6mm, 4POS Cover for Rcpt	1	紫铜	
4	3.6mm, 4POS Housing	1	PA66	
3	Wave Spring For PL4.0 4Pos	1	铜合金	
2	PwrLok Gasket 4POS 3.6mm	1	硅橡胶	
1	PwrLok Shell Rcpt	1	锌合金	镀镍5~8um
序号	名称	数量	材料	表面处理

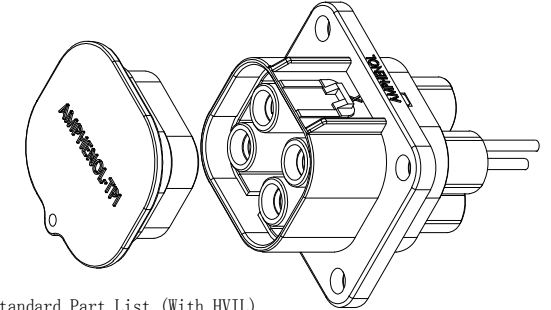
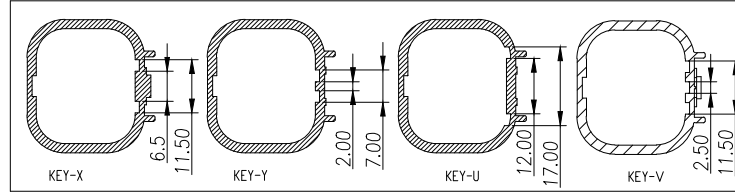
MATERIALS LIST

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 Rcpt Conn	
日期 DATE		2 of 2	A3	A		DWG NO.: PL084X()-4(1)-()B	
签名 SIGNATURE		UNLESS OTHERWISE SPECIFIED				CUST PART #:	
制图 DRAWN		1) All dimensions are in metric(mm).				N/A	
审核 CHECKED		2) Tolerances are as follows:				CUST REV.	
批准 APPROVAL		0 PL DEC ±1.00				-	
		1 PL DEC ±0.50					
		2 PL DEC ±0.20					
		Angles ±1°					

THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.

Customer Drawing

6		7		8		
REV		ZONE		ECO		REVISIONS
DESCRIPTION		DATE		BY		APPR
A		--		--		INITIAL RELEASE
		09/18/20		Fred		JL



Standard Part List (With HVIL)

P/N	Model NO.	Dimension "A"	Cable size	Accepted cable OD
AC-HA016853	PL084X-41-2.5B	ø3.70mm	2.5mm ²	<ø7.5mm
AC-HA016854	PL084Y-41-2.5B			
AC-HA016855	PL084U-41-2.5B			
AC-HA016856	PL084V-41-2.5B			
AC-HA016857	PL084X-41-4B	ø4.57mm	4mm ²	<ø7.5mm
AC-HA016858	PL084Y-41-4B			
AC-HA016859	PL084U-41-4B			
AC-HA016860	PL084V-41-4B			
AC-HA016861	PL084X-41-6B	ø5.80mm	6mm ²	<ø7.5mm
AC-HA016862	PL084Y-41-6B			
AC-HA016863	PL084U-41-6B			
AC-HA016864	PL084V-41-6B			

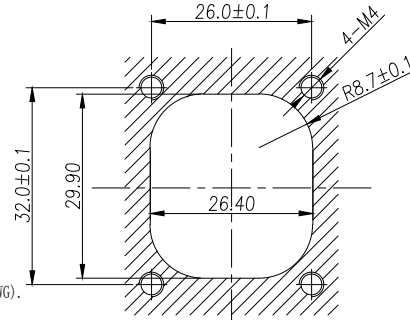
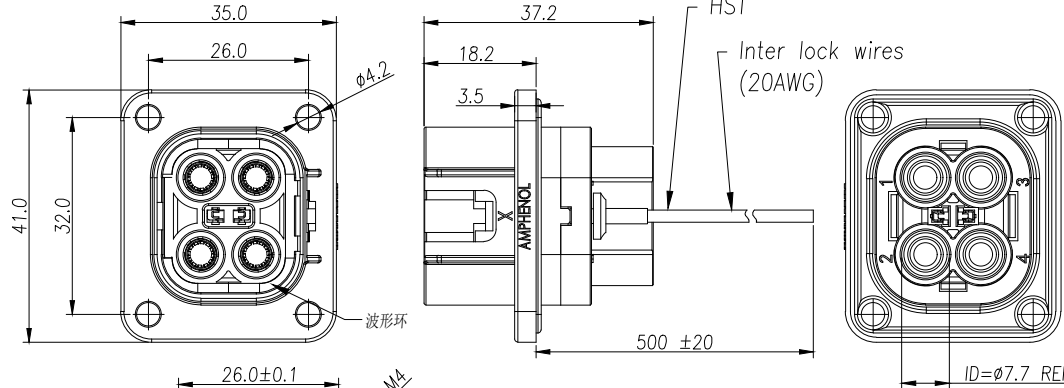
Standard Part List (Without HVIL)

P/N	Model NO.	Dimension "A"	Cable size	
AC-HA016865	PL084X-40-2.5B	ø3.70mm	2.5mm ²	<ø7.5mm
AC-HA016866	PL084Y-40-2.5B			
AC-HA016867	PL084U-40-2.5B			
AC-HA016868	PL084V-40-2.5B			
AC-HA016869	PL084X-40-4B	ø4.57mm	4mm ²	<ø7.5mm
AC-HA016870	PL084Y-40-4B			
AC-HA016871	PL084U-40-4B			
AC-HA016872	PL084V-40-4B			
AC-HA016873	PL084X-40-6B	ø5.80mm	6mm ²	<ø7.5mm
AC-HA016874	PL084Y-40-6B			
AC-HA016875	PL084U-40-6B			
AC-HA016876	PL084V-40-6B			

- Notes:
- Surface Planeness of panel should be less than or equal to 0.2mm.
 - Surface Roughness of panel should be Ra 3.2 or better.

规格参数 (Spec.):

- 工作温度 Operating temperature:
-40° C~+125° C.
- 带高压互锁 Electrical interlock (HVIL).
- 额定电流 Current rating (connector only):
2.5mm²: 25A, 4mm²: 35A, 6mm²: 45A; HVIL: 5A (20AWG).
- 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
- 耐电压 Dielectric withstanding voltage:
A. 与插头对插后, Pin与铁壳之间
After mating, between pin and metal shell: 5000 VDC 60S 漏电流<5mA.
B. 与插头对插后, Pin与HVIL之间
After mating, between pin and HVIL: 5000 VDC 60S 漏电流<5mA.
C. 与插头对插后, HVIL与铁壳之间
After mating, between HVIL and metal shell: 500 VDC 60S 漏电流<5mA.
D. 与插头对插前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals: 500 VDC 60S 漏电流<5mA.
- 防护等级 Protection Class: IP67 (水深1m, 浸泡0.5h) & IP2X.
- 阻燃等级 Flame Rating 绝缘件 UL94-V0 密封件 UL94-HB
- 电磁屏蔽 Shielding.
- 机械寿命 Mating cycle: 100 Min.
- 带自动二次锁扣 Automatic secondary lock.
- 接非屏蔽线 Accepte Unshielding Wire.
- 推荐法兰盘螺丝安装扭矩 Recommended Screw Assembly Torque on Flange: 1.6~2.4 Nm.



面板安装孔尺寸
Panel Size

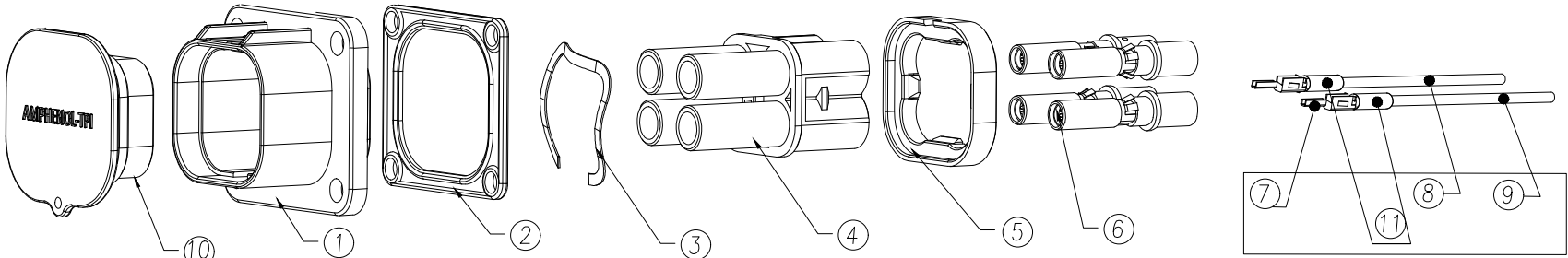
订购信息 Ordering Information

PL08	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"								

AMPHENOL		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 Rpt Conn		DWG NO:	
UNLESS OTHERWISE SPECIFIED		1) All dimensions are in metric(mm).		2) Tolerances are as follows:		CUST PART #:	
0 PL DEC ±1.00		1 PL DEC ±0.50		2 PL DEC ±0.20		N/A	
Angles ±1°						CUST REV.	
-							

THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.

6		7		8		
REV		ZONE		ECO		REVISIONS
A		--		--		DESCRIPTION
						DATE
						BY
						APPR
						INITIAL RELEASE
						09/18/20
						Fred
						JL



仅当连接器有高压
互锁功能时安装

11	HST H-2(Z) 2.0 BK	2		
10	PL3.6 4POS Rept Dust Cap	1		
9	20AWG RE	A/R	LDPE	
8	20AWG BK	A/R	ETFE	
7	Mini-Fit Crimp Pin18-24AWG	2	ETFE	镀锡
6	PwrLok Soc 4mm	4	铜合金	镀锡3~5um
5	3.6mm, 4POS Cover for Rcpt	1	紫铜	
4	3.6mm, 4POS Housing	1	PA66	
3	Wave Spring For PL4.0 4Pos	1	铜合金	
2	PwrLok Gasket 4POS 3.6mm	1	硅橡胶	
1	PwrLok Shell Rept	1	锌合金	镀镍5~8um
序号	名称	数量	材料	表面处理

MATERIALS LIST

AMPHENOL TP		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:
			2 OF 2	A3	A		PwrLok 4.0mm 4POS Rept Conn
签 名 SIGNATURE		日期 DATE	UNLESS OTHERWISE SPECIFIED				DWG NO:
制 图 DRAWN		Fred	1) All dimensions are in metric(mm).				PL084X()-4(1)-()B
审 核 CHECKED			2) Tolerances are as follows:				CUST PART #:
批 准 APPROVAL			0 PL DEC ±1.00				N/A
			1 PL DEC ±0.50				CUST REV.
			2 PL DEC ±0.20				-
			Angles ±1°				