

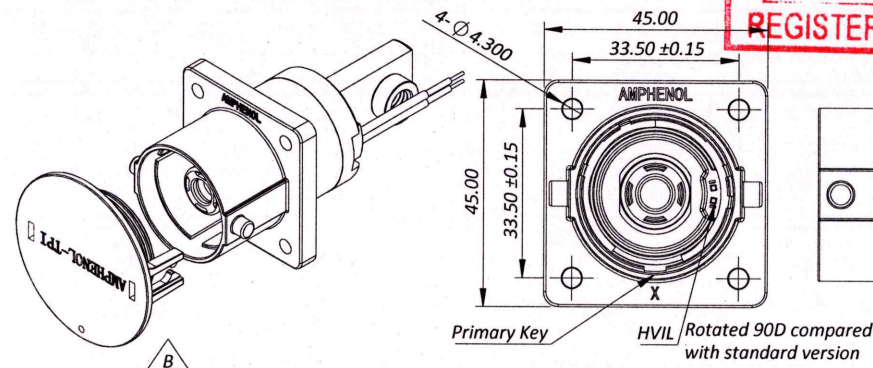
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CUSTOMER DRAWING

Amphenol TPI
2021-02-18
REGISTERED COPY

REVISIONS

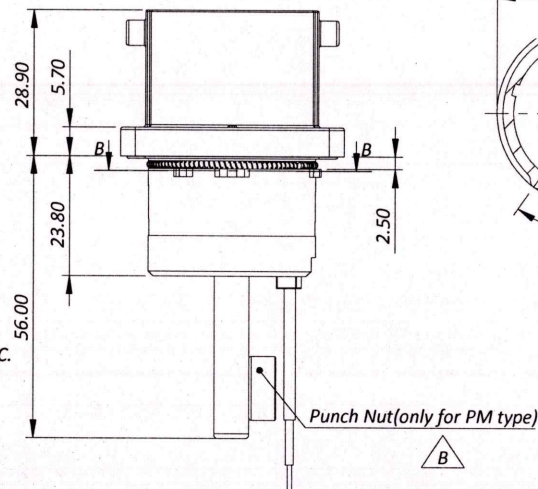
REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY:	DATE
A	--	INITIAL RELEASE	Fred	JL	10/21/2020
B	--	Add dust cap, oring and M6 PM8 specifications	Star	James	12/30/2020



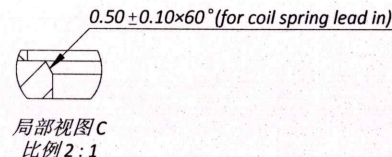
键位 Key	A	B
X	80°	36°
Y	50°	86°
U	36°	76°
V	100°	56°
W	130°	60°
T	144°	96°

规格参数(Spec.):

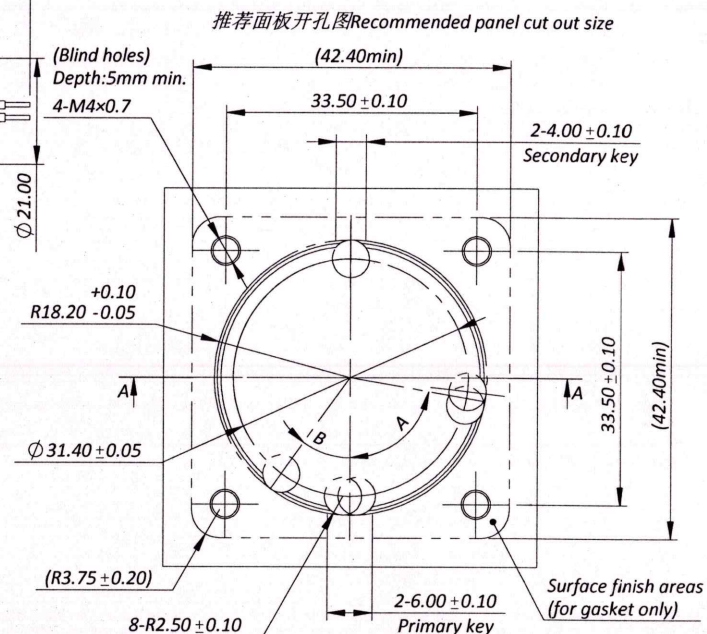
1. 工作温度 Operating temperature: -40°C ~ +125°C.
2. 带高压互锁 Electrical interlock (HVIL).
3. 额定电流 Current rating:
Power: 500A; HVIL: 5A.
4. 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
5. 耐电压 Dielectric withstanding voltage:
A. 与插头对插后, Pin 与铁壳之间
When mated, between pin and metal shell: 5000 VDC.
B. 与插头对插后, Pin 与 HVIL 之间
When mated, between pin and HVIL: 5000 VDC.
C. 与插头对插后, HVIL 与铁壳之间
When mated, between HVIL and metal shell: 500 VDC.
D. 与插头对插前, 两个 HVIL 端子之间耐压
Before mating, between two HVIL terminals: 500 VDC.
6. 防护等级 Protection class: Mated-IP6k9k & IP67, unmated-IP2X.
7. 电磁屏蔽 360° full Shielding.
8. 机械寿命 Mating cycle: 100 Min.
9. 绝缘材料满足 UL94V-0 Inner insulation material satisfy UL94V-0.
10. 推荐法兰盘螺丝安装扭矩 Recommended Screw Assembly Torque on Flange: 1.6~2.4Nm
11. 推荐铜排安装扭矩 Recommended Fasten Torque on Lug:
M6: 3.6~4.4Nm, M8: 7.2~8.8Nm, M10: 17.1~20.9Nm
12. 镀灰锌/锌镍合金, 符合 RoHS, 满足 500H 中性盐雾实验
Gray Zinc/Nickel(ZnNi) Plating. RoHS compliant, Rated at 500hours salt spray.



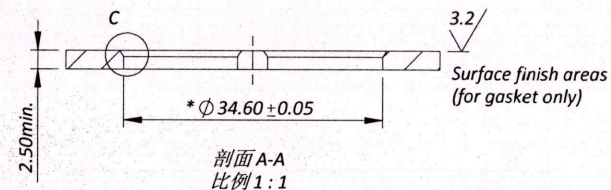
剖面 B-B
比例 1:1.5



局部视图 C
比例 2:1



Dim A/B: different key use different angle size

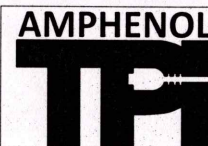


剖面 A-A
比例 1:1

订购信息 Ordering Information

PL 00 X -50X - 90X X -2

Key and Color	HVIL	Hole Type	Hole Size
"X", Orange	"0", NO HVIL	"D", Through Hole	
"Y", Black	"1", With HVIL	"M", thread hole	
"U", Yellow		"H", slot hole	
"V", Green		"PM", Punch Nut	
"W", Red			
"T", Blue			



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	A4	B			PL14mm G2 Rcpt Lug 90Degree
签名 SIGNATURE	日期 DATE	UNLESS OTHERWISE SPECIFIED	DWG NO:		
制图 DRAWN	Star	12/30/2020	PL00X-50X-90XX-2		
审核 CHECKED	James	2021.02.09	CUST PART #		
批准 APPROVAL	James	2021.2.9	CUST REV.		

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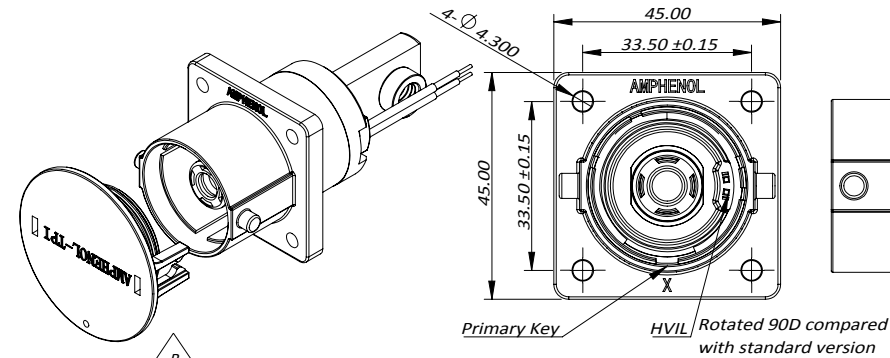
1	2
型号 Model	AC P/N
PL00X-500-90M8-2	AC-HA014517
PL00Y-500-90M8-2	AC-HA014518
PL00U-500-90M8-2	AC-HA014519
PL00V-500-90M8-2	AC-HA014520
PL00W-500-90M8-2	AC-HA014521
PL00T-500-90M8-2	AC-HA014522
PL00X-500-90M10-2	AC-HA014523
PL00Y-500-90M10-2	AC-HA014524
PL00U-500-90M10-2	AC-HA014525
PL00V-500-90M10-2	AC-HA014526
PL00W-500-90M10-2	AC-HA014527
PL00T-500-90M10-2	AC-HA014528
PL00X-500-90D8-2	AC-HA014529
PL00Y-500-90D8-2	AC-HA014530
PL00U-500-90D8-2	AC-HA014531
PL00V-500-90D8-2	AC-HA014532
PL00W-500-90D8-2	AC-HA014533
PL00T-500-90D8-2	AC-HA014534
PL00X-500-90D10-2	AC-HA014535
PL00Y-500-90D10-2	AC-HA014536
PL00U-500-90D10-2	AC-HA014537
PL00V-500-90D10-2	AC-HA014538
PL00W-500-90D10-2	AC-HA014539
PL00T-500-90D10-2	AC-HA014540
PL00X-501-90M8-2	AC-HA014541
PL00Y-501-90M8-2	AC-HA014542
PL00U-501-90M8-2	AC-HA014543
PL00V-501-90M8-2	AC-HA014544
PL00W-501-90M8-2	AC-HA014545
PL00T-501-90M8-2	AC-HA014546
PL00X-501-90M10-2	AC-HA014547
PL00Y-501-90M10-2	AC-HA014548
PL00U-501-90M10-2	AC-HA014549
PL00V-501-90M10-2	AC-HA014550
PL00W-501-90M10-2	AC-HA014551
PL00T-501-90M10-2	AC-HA014552
PL00X-501-90D8-2	AC-HA014553
PL00Y-501-90D8-2	AC-HA014554
PL00U-501-90D8-2	AC-HA014555
PL00V-501-90D8-2	AC-HA014556
PL00W-501-90D8-2	AC-HA014557
PL00T-501-90D8-2	AC-HA014558
PL00X-501-90D10-2	AC-HA014559
PL00Y-501-90D10-2	AC-HA014560
PL00U-501-90D10-2	AC-HA014561
PL00V-501-90D10-2	AC-HA014562
PL00W-501-90D10-2	AC-HA014563
PL00T-501-90D10-2	AC-HA014564

型号 Model	AC P/N
PL00X-500-90M6-2	AC-HA017798
PL00Y-500-90M6-2	AC-HA017799
PL00U-500-90M6-2	AC-HA017800
PL00V-500-90M6-2	AC-HA017801
PL00W-500-90M6-2	AC-HA017802
PL00T-500-90M6-2	AC-HA017803
PL00X-501-90M6-2	AC-HA017804
PL00Y-501-90M6-2	AC-HA017805
PL00U-501-90M6-2	AC-HA017806
PL00V-501-90M6-2	AC-HA017807
PL00W-501-90M6-2	AC-HA017808
PL00T-501-90M6-2	AC-HA017809
PL00X-500-90PM8-2	AC-HA017810
PL00Y-500-90PM8-2	AC-HA017811
PL00U-500-90PM8-2	AC-HA017812
PL00V-500-90PM8-2	AC-HA017813
PL00W-500-90PM8-2	AC-HA017814
PL00T-500-90PM8-2	AC-HA017815
PL00X-501-90PM8-2	AC-HA017816
PL00Y-501-90PM8-2	AC-HA017817
PL00U-501-90PM8-2	AC-HA017818
PL00V-501-90PM8-2	AC-HA017819
PL00W-501-90PM8-2	AC-HA017820
PL00T-501-90PM8-2	AC-HA017821



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: PL14mm G2 Rcpt Lug 90Degree	
⊕		2 OF 2	A4	B			
签名 SIGNATURE		日期 DATE		UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 3) PL DEC ± 0.20		DWG NO: PL00X-50X-90XX-2	
制图 DRAWN		Star		12/30/2020		CUST PART #	
审核 CHECKED		John 2021.02.09		Angles ±1°		CUST REV.	
批准 APPROVAL		John 2021.02.09					

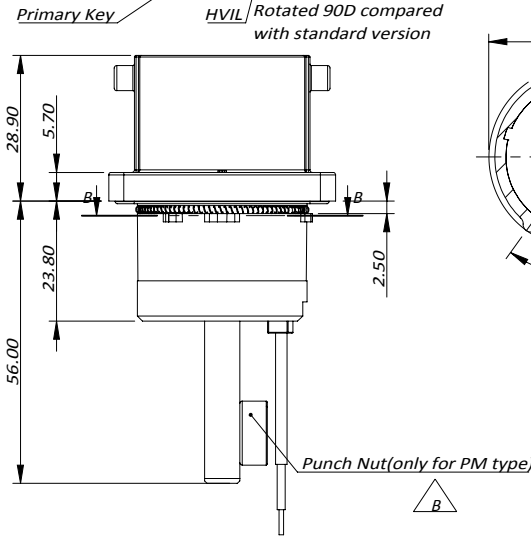
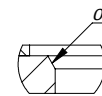
CUSTOMER DRAWING



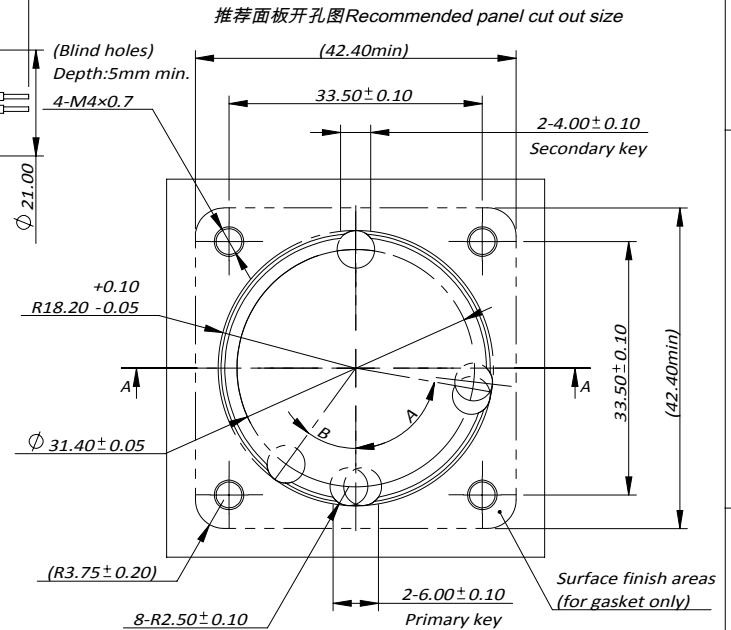
键位 Key	A	B
X	80°	36°
Y	50°	86°
U	36°	76°
V	100°	56°
W	130°	60°
T	144°	96°

规格参数(Spec.):

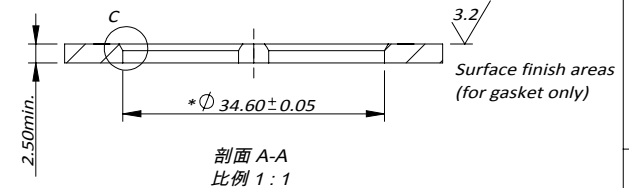
1. 工作温度 Operating temperature : -40°C ~ +125°C.
2. 带高压互锁 Electrical interlock (HVIL).
3. 额定电流 Current rating:
Power: 500A; HVIL: 5A.
4. 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
5. 耐压 Dielectric withstanding voltage:
A. 与插头对接后, Pin与铁壳之间
When mated, between pin and metal shell: 5000 VDC.
B. 与插头对接后, Pin与HVIL之间
When mated, between pin and HVIL: 5000 VDC.
C. 与插头对接后, HVIL与铁壳之间
When mated, between HVIL and metal shell: 500 VDC.
D. 与插头对接前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals: 500 VDC.
6. 防护等级 Protection class: Mated-IP6k9k & IP67, unmated-IP2X.
7. 电磁屏蔽 360° full Shielding.
8. 机械寿命 Mating cycle: 100 Min.
9. 绝缘材料满足 UL94V-0 Inner insulation material satisfy UL94V-0.
10. 推荐法兰盘螺丝安装扭矩 Recommended Screw Assembly Torque on Flange: 1.6~2.4Nm
11. 推荐铜排安装扭矩 Recommended Fasten Torque on Lug:
M6: 3.6~4.4Nm, M8: 7.2~8.8Nm, M10: 17.1~20.9Nm
12. 镀灰锌/锌镍合金, 符合RoHS, 满足500H中性盐雾实验
Gray Zinc/Nickel(ZnNi) Plating, RoHS compliant, Rated at 500hours salt spray.

剖面 B-B
比例 1 : 1.5局部视图 C
比例 2 : 1

REVISIONS					
REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY:	DATE
A	--	INITIAL RELEASE	Fred	JL	10/21/2020
B	--	Add dust cap, oring and M6 PM8 specifications	Star	James	12/30/2020



Dim A/B: different key use different angle size

剖面 A-A
比例 1 : 1

订购信息 Ordering Information

PL 00 X - 50X - 90X X - 2

Key and Color	HVIL	Hole Type	Hole Size
"X", Orange	"0", NO HVIL	"D", Through Hole	
"Y", Black	"1", With HVIL	"M", thread hole	
"U", Yellow		"H", slot hole	
"V", Green		"PM", Punch Nut	
"W", Red			
"T", Blue			

AMPHENOL TP		Amphenol Technical Products International Asia.					
		第三角投影 THIRD ANGLE PROJECTION				PART NAME:	
		页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PL14mm G2 Rcpt Lug 90Degree	
			1 OF 2	A4	B		
签名 SIGNATURE		日期 DATE	UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric (mm). 2) Tolerances are as follows: 1.PL DEC ± 1.00 2.PL DEC ± 0.50 3.PL DEC ± 0.20 Angles ±1°			DWG NO: PL00X-50X-90XX-2	
制图 DRAWN	Star	12/30/2020				CUST PART # CUST REV.	
审核 CHECKED							
批准 APPROVAL							

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1	2	3	4	5	6	7	8
A	型号 Model	AC P/N					
	PL00X-500-90M8-2	AC-HA014517					
	PL00Y-500-90M8-2	AC-HA014518					
	PL00U-500-90M8-2	AC-HA014519					
	PL00V-500-90M8-2	AC-HA014520					
	PL00W-500-90M8-2	AC-HA014521					
	PL00T-500-90M8-2	AC-HA014522					
	PL00X-500-90M10-2	AC-HA014523					
	PL00Y-500-90M10-2	AC-HA014524					
	PL00U-500-90M10-2	AC-HA014525					
B	PL00V-500-90M10-2	AC-HA014526					
	PL00W-500-90M10-2	AC-HA014527					
	PL00T-500-90M10-2	AC-HA014528					
	PL00X-500-90D8-2	AC-HA014529					
	PL00Y-500-90D8-2	AC-HA014530					
	PL00U-500-90D8-2	AC-HA014531					
	PL00V-500-90D8-2	AC-HA014532					
	PL00W-500-90D8-2	AC-HA014533					
	PL00T-500-90D8-2	AC-HA014534					
	PL00X-500-90D10-2	AC-HA014535					
C	PL00Y-500-90D10-2	AC-HA014536					
	PL00U-500-90D10-2	AC-HA014537					
	PL00V-500-90D10-2	AC-HA014538					
	PL00W-500-90D10-2	AC-HA014539					
	PL00T-500-90D10-2	AC-HA014540					
	PL00X-501-90M8-2	AC-HA014541					
	PL00Y-501-90M8-2	AC-HA014542					
	PL00U-501-90M8-2	AC-HA014543					
	PL00V-501-90M8-2	AC-HA014544					
	PL00W-501-90M8-2	AC-HA014545					
D	PL00T-501-90M8-2	AC-HA014546					
	PL00X-501-90M10-2	AC-HA014547					
	PL00Y-501-90M10-2	AC-HA014548					
	PL00U-501-90M10-2	AC-HA014549					
	PL00V-501-90M10-2	AC-HA014550					
	PL00W-501-90M10-2	AC-HA014551					
	PL00T-501-90M10-2	AC-HA014552					
	PL00X-501-90D8-2	AC-HA014553					
	PL00Y-501-90D8-2	AC-HA014554					
	PL00U-501-90D8-2	AC-HA014555					
	PL00V-501-90D8-2	AC-HA014556					
	PL00W-501-90D8-2	AC-HA014557					
	PL00T-501-90D8-2	AC-HA014558					
	PL00X-501-90D10-2	AC-HA014559					
	PL00Y-501-90D10-2	AC-HA014560					
	PL00U-501-90D10-2	AC-HA014561					
	PL00V-501-90D10-2	AC-HA014562					
	PL00W-501-90D10-2	AC-HA014563					
	PL00T-501-90D10-2	AC-HA014564					
1	2	3	4	5	6	7	8

REVISIONS					
REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY:	DATE
A	--	INITIAL RELEASE	Fred	JL	10/21/2020
B	--	Add dust cap, oring and M6 PM8 specifications	Star	James	12/30/2020

型号 Model	AC P/N
PL00X-500-90M6-2	AC-HA017798
PL00Y-500-90M6-2	AC-HA017799
PL00U-500-90M6-2	AC-HA017800
PL00V-500-90M6-2	AC-HA017801
PL00W-500-90M6-2	AC-HA017802
PL00T-500-90M6-2	AC-HA017803
PL00X-501-90M6-2	AC-HA017804
PL00Y-501-90M6-2	AC-HA017805
PL00U-501-90M6-2	AC-HA017806
PL00V-501-90M6-2	AC-HA017807
PL00W-501-90M6-2	AC-HA017808
PL00T-501-90M6-2	AC-HA017809
PL00X-500-90PM8-2	AC-HA017810
PL00Y-500-90PM8-2	AC-HA017811
PL00U-500-90PM8-2	AC-HA017812
PL00V-500-90PM8-2	AC-HA017813
PL00W-500-90PM8-2	AC-HA017814
PL00T-500-90PM8-2	AC-HA017815
PL00X-501-90PM8-2	AC-HA017816
PL00Y-501-90PM8-2	AC-HA017817
PL00U-501-90PM8-2	AC-HA017818
PL00V-501-90PM8-2	AC-HA017819
PL00W-501-90PM8-2	AC-HA017820
PL00T-501-90PM8-2	AC-HA017821

B

	Amphenol Technical Products International Asia.					PART NAME: PL14mm G2 Rcpt Lug 90Degree
	第三角投影 THIRD ANGLE PROJECTION	页 面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	
签 名 SIGNATURE		日期 DATE		UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1.PL DEC ± 1.00 2.PL DEC ± 0.50 3.PL DEC ± 0.20		DWG NO: PL00X-50X-90XX-2
制 图 DRAWN		Star		12/30/2020		CUST PART #
审 核 CHECKED						CUST REV.
批 准 APPROVAL						

Angles ±1°

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

A

B

C

D