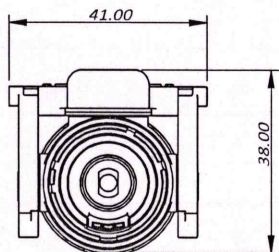
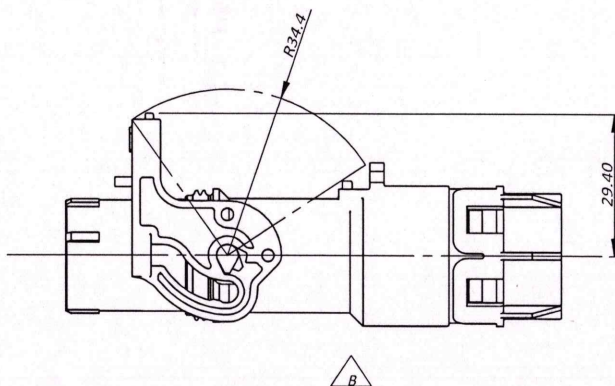
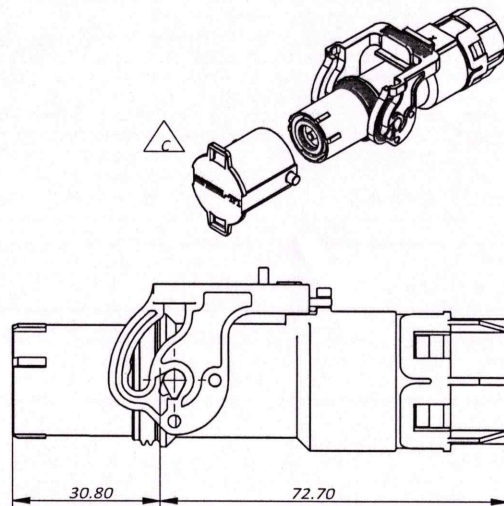
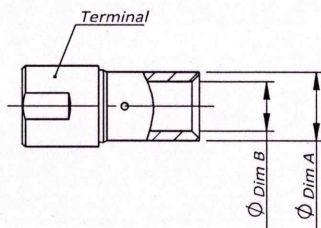


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CUSTOMER DRAWING



Amphenol TPI
2022-02-11
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Standard Part List:

Model No.	H+S Part No.	Dia. Primary Insulation(mm)	Dia. of Screen max. (mm)	Overall-Dia. Nominal(mm)	Outside-Dia. of terminal(mm): "A"	Inside-Dia. of terminal(mm): "B"
PL18(X)-30X-70-2-5	84100298	13.7±0.3	14.6	17.0±0.3	16.7±0.3	12.2±0.3
PL18(X)-30X-50-2-5	84096257	11.5±0.3	12.6	14.9±0.3	14.0±0.3	10.0±0.3

REVISIONS					
REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY:	DATE
A	--	INITIAL RELEASE	JX	JL	03/09/2020
B	--	增加表格信息	Star	James	10/29/2020
C	--	Add Package specification P/N And Add Dust Cap Protection Cap	Star	JL	03/04/2021
D	--	Change the temperature of technical points	Star	JL	01/25/2022

订购信息 Ordering Information

PL18 X - 30 1 - 70 - 2 - 5

Key and Color	HVIL	Cable Size	Cable Type:
"X", Orange	"0", NO HVIL	"50"=50mm²	"-5", Huber+Suhner
"Y", Black	"1", With HVIL	"70"=70mm²	
"U", Yellow			
"V", Green			
"W", Red			
"T", Blue			

规格参数(Spec.):

- 工作温度 Operating temperature: -40°C ~ +140°C.
- 带高压互锁 Electrical interlock (HVIL).
- 额定电流 Current rating:
Power: 50mm² 2,200A; 70mm² 2,250A; HVIL: 5A.
- 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
- 耐压 Dielectric withstanding voltage:
A. 与插座对接后, Pin与铁壳之间
When mated, between pin and metal shell: 5000 VDC.
B. 与插座对接后, Pin与HVIL之间
When mated, between pin and HVIL: 5000 VDC.
C. 与插座对接后, HVIL与铁壳之间
When mated, between HVIL and metal shell: 500 VDC.
D. 与插座对接前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals: 500 VDC.
- 防护等级 Protection class: Mated-IP6k9k & IP67, unmated-IP2X.
- 电磁屏蔽 360° full Shielding.
- 机械寿命 Mating cycle: 100 Min.
- 带CPA的摇杆系统 Latch system with CPA.
- 绝缘材料满足UL94 V-0 Inner insulation material satisfy UL94V-0.
- 镀灰锌/镍合金, 满足500H中性盐雾实验
Gray Zinc/Nickel(ZnNi) Plating. Rated at 500hours salt spray.
- 产品满足RoHS和REACH要求. Parts must be RoHS and reach compliant



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	D			PL300 G2 1POS Straight Plug
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:
					PL18X-30X-XX-2-5
					CUST PART #
					CUST REV.

Key Characteristics	Critical
Contact	关键特性
Amphenol for Latest Definition	Significant
	重要特性

签名 SIGNATURE	日期 DATE
制图 DRAWN	Star 01/25/2022
审核 CHECKED	JX 01/26/2022
批准 APPROVAL	James 2022-1-26

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1	2	3	4	5	6	7	8
型号 Model	Kit Package P/N	Bulk Package P/N	REVISONS				
PL18X-300-50-2-5	AC-HA010794	AC-HA010794-2	REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY: DATE
PL18Y-300-50-2-5	AC-HA010795	AC-HA010795-2	A	--	INITIAL RELEASE	JX	JL 03/09/2020
PL18U-300-50-2-5	AC-HA010796	AC-HA010796-2	B	--	增加表格信息	Star	James 10/29/2020
PL18V-300-50-2-5	AC-HA010797	AC-HA010797-2	C	--	Add Package specification P/N And Add Dust Cap Protection Cap	Star	JL 03/04/2021
PL18W-300-50-2-5	AC-HA010798	AC-HA010798-2	D	--	Change the temperature of technical points	Star	JL 01/25/2022
PL18T-300-50-2-5	AC-HA010799	AC-HA010799-2					
PL18X-300-70-2-5	AC-HA010800	AC-HA010800-2					
PL18Y-300-70-2-5	AC-HA010801	AC-HA010801-2					
PL18U-300-70-2-5	AC-HA010802	AC-HA010802-2					
PL18V-300-70-2-5	AC-HA010803	AC-HA010803-2					
PL18W-300-70-2-5	AC-HA010804	AC-HA010804-2					
PL18T-300-70-2-5	AC-HA010805	AC-HA010805-2					
PL18X-301-50-2-5	AC-HA010818	AC-HA010818-2					
PL18Y-301-50-2-5	AC-HA010819	AC-HA010819-2					
PL18U-301-50-2-5	AC-HA010820	AC-HA010820-2					
PL18V-301-50-2-5	AC-HA010821	AC-HA010821-2					
PL18W-301-50-2-5	AC-HA010822	AC-HA010822-2					
PL18T-301-50-2-5	AC-HA010823	AC-HA010823-2					
PL18X-301-70-2-5	AC-HA010824	AC-HA010824-2					
PL18Y-301-70-2-5	AC-HA010825	AC-HA010825-2					
PL18U-301-70-2-5	AC-HA010826	AC-HA010826-2					
PL18V-301-70-2-5	AC-HA010827	AC-HA010827-2					
PL18W-301-70-2-5	AC-HA010828	AC-HA010828-2					
PL18T-301-70-2-5	AC-HA010829	AC-HA010829-2					

△ HVIL Protection Cap

△ Dust Cap

Note: Optional to be ordered separately

ITEM	DESCRIPTION	QTY	REMARK
13	PL300 G2 1POS plug protection cap	1	Order P/N AC-CP001615
12	PL300 G2 Dust Cap for Plug	1	
11	PL300 G2 Lock Housing1	2	Different P/N are used according to different Cable sizes
10	PL300 G2 Lock Housing2	1	
9	PL300 G2 Metal Gasket	1	Different P/N are used according to different Cable sizes
8	PL300 G2 Tail Cap for straight plug	1	Different P/N are used according to different Cable sizes
7	PL300 G2 cable sealing for straight plug	1	Different P/N are used according to different Cable sizes
6	PL300 G2 Inner Copper Ring	1	Different P/N are used according to different Cable sizes
5	PL300 G2 Outer Copper Ring for Straight Plug	1	
4	PL300 G2 Coil Spring for Straight Plug	1	Different P/N are used according to different Cable sizes
3	PL300 G2 Terminal Assy	1	
2	PL300 G2 Insulation Sleeve Assy	1	
1	PL300 G2 Shell Plug Assy	1	Different P/N are used according to different Cable sizes

AMPHENOL

Amphenol Technical Products International Asia.

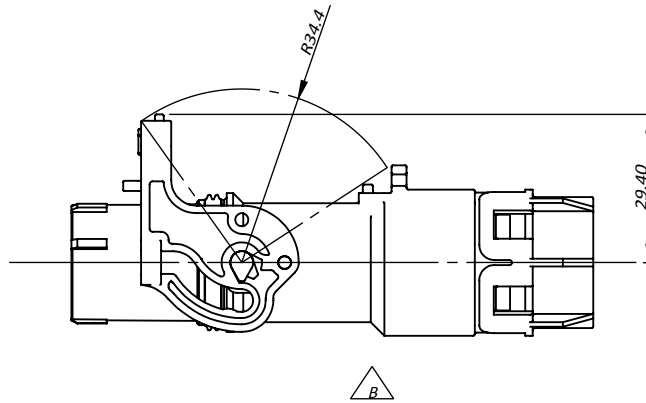
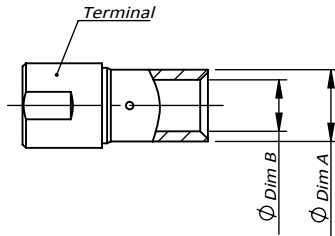
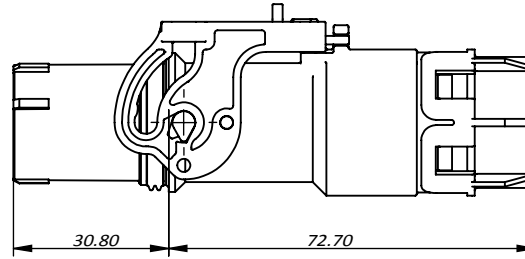
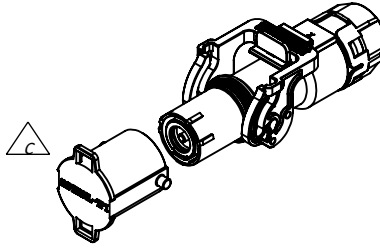
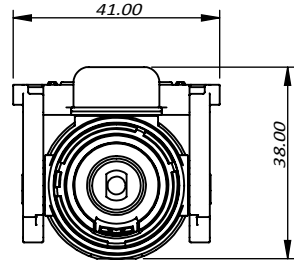
第三角投影 THIRD ANGLE PROJECTION	页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME:
	2 OF 2	A4	D		PL300 G2 1POS Straight Plug

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:
Star	01/25/2022		PL18X-30X-XX-2-5

制图 DRAWN	审核 CHECKED	批准 APPROVAL	CUST PART #	CUST REV.
Star	JL	James		

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CUSTOMER DRAWING



Standard Part List:

Model No.	H+S Part No.	Dia. Primary Insulation(mm)	Dia. of Screen max. (mm)	Overall-Dia. Nominal(mm)	Outside-Dia. of terminal(mm): "A"	Inside-Dia. of terminal(mm): "B"
PL18(X)-30X-70-2-5	84100298	13.7±0.3	14.6	17.0±0.3	16.7±0.3	12.2±0.3
PL18(X)-30X-50-2-5	84096257	11.5±0.3	12.6	14.9±0.3	14.0±0.3	10.0±0.3

REVISIONS					
REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY:	DATE
A	--	INITIAL RELEASE	JX	JL	03/09/2020
B	--	增加表格信息	Star	James	10/29/2020
C	--	Add Package Specification P/N And Add Dust Cap Protection Cap	Star	JL	03/04/2021
D	--	Change the temperature of technical points	Star	JL	01/25/2022

订购信息 Ordering Information

PL18 X - 30 1 - 70 - 2 - 5

Key and Color
"X", Orange
"Y", Black
"U", Yellow
"V", Green
"W", Red
"T", Blue

HVIL
"0", NO HVIL
"1", With HVIL
Cable Size
"50"=50mm²
"70"=70mm²

Cable Type:
"-5", Huber+Suhner

规格参数(Spec.):

- 工作温度 Operating temperature: -40°C ~ +140°C.
- 带高压互锁 Electrical interlock (HVIL).
- 额定电流 Current rating:
Power: 50mm² 2,200A; 70mm² 2,250A; HVIL: 5A.
- 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
- 耐电压 Dielectric withstanding voltage:
A. 与插座对接后, Pin与铁壳之间
When mated, between pin and metal shell: 5000 VDC.
B. 与插座对接后, Pin与HVIL之间
When mated, between pin and HVIL: 5000 VDC.
C. 与插座对接后, HVIL与铁壳之间
When mated, between HVIL and metal shell: 500 VDC.
D. 与插座对接前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals: 500 VDC.
- 防护等级 Protection class: Mated-IP6k9k & IP67, unmated-IP2X.
- 电磁屏蔽 360° full Shielding.
- 机械寿命 Mating cycle: 100 Min.
- 带CPA的摇杆系统 Latch system with CPA.
- 绝缘材料满足UL94 V-0 Inner insulation material satisfy UL94V-0.
- 镀灰锌/锌镍合金, 满足500H中性盐雾实验
Gray Zinc/Nickel(ZnNi) Plating. Rated at 500hours salt spray.
- 产品满足RoHS和REACH要求. Parts must be RoHS and reach compliant



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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	D			PL300 G2 1POS Straight Plug
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					PL18X-30X-XX-2-5
					CUST PART #
					CUST REV.

Key
Characteristics
Contact
Amphenol for
Latest
Definition

Critical
关键特性

Significant
重要特性

签名 SIGNATURE

日期 DATE

制图 DRAWN

Star

01/25/2022

审核 CHECKED

批准 APPROVAL

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1	2	3	4	5	6	7	8
型号 Model	Kit Package P/N	Bulk Package P/N	REVISIONS				
PL18X-300-50-2-5	AC-HA010794	AC-HA010794-2	REV#	ECN#	REVISION ACTION	REV.BY:	APPR.BY: DATE
PL18Y-300-50-2-5	AC-HA010795	AC-HA010795-2	A	--	INITIAL RELEASE	JX	JL 03/09/2020
PL18U-300-50-2-5	AC-HA010796	AC-HA010796-2	B	--	增加表格信息	Star	James 10/29/2020
PL18V-300-50-2-5	AC-HA010797	AC-HA010797-2	C	--	Add Package specification P/N And Add Dust Cap Protection Cap	Star	JL 03/04/2021
PL18W-300-50-2-5	AC-HA010798	AC-HA010798-2	D	--	Change the temperature of technical points	Star	JL 01/25/2022
PL18T-300-50-2-5	AC-HA010799	AC-HA010799-2					
PL18X-300-70-2-5	AC-HA010800	AC-HA010800-2					
PL18Y-300-70-2-5	AC-HA010801	AC-HA010801-2					
PL18U-300-70-2-5	AC-HA010802	AC-HA010802-2					
PL18V-300-70-2-5	AC-HA010803	AC-HA010803-2					
PL18W-300-70-2-5	AC-HA010804	AC-HA010804-2					
PL18T-300-70-2-5	AC-HA010805	AC-HA010805-2					
PL18X-301-50-2-5	AC-HA010818	AC-HA010818-2					
PL18Y-301-50-2-5	AC-HA010819	AC-HA010819-2					
PL18U-301-50-2-5	AC-HA010820	AC-HA010820-2					
PL18V-301-50-2-5	AC-HA010821	AC-HA010821-2					
PL18W-301-50-2-5	AC-HA010822	AC-HA010822-2					
PL18T-301-50-2-5	AC-HA010823	AC-HA010823-2					
PL18X-301-70-2-5	AC-HA010824	AC-HA010824-2					
PL18Y-301-70-2-5	AC-HA010825	AC-HA010825-2					
PL18U-301-70-2-5	AC-HA010826	AC-HA010826-2					
PL18V-301-70-2-5	AC-HA010827	AC-HA010827-2					
PL18W-301-70-2-5	AC-HA010828	AC-HA010828-2					
PL18T-301-70-2-5	AC-HA010829	AC-HA010829-2					