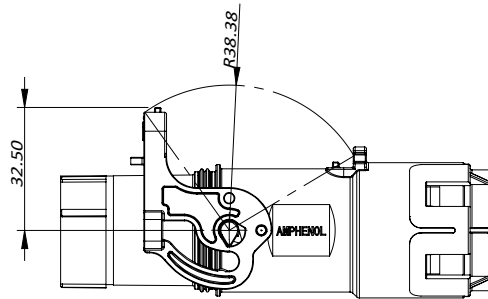
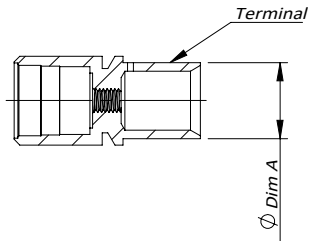
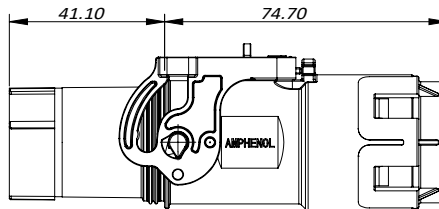
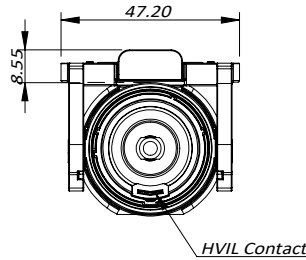
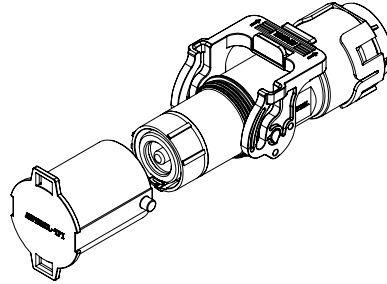


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## CUSTOMER DRAWING



### 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)-50X-70-2-5  | 84100298     | 13.7±0.3                    | 14.6                     | 17.0±0.3                 | 16.7±0.3                          | 12.2±0.3                         |
| PL18(X)-50X-95-2-5  | 84100299     | 16.2±0.3                    | 17.3                     | 19.9±0.4                 | 17.9±0.3                          | 13.9±0.3                         |
| PL18(X)-50X-120-2-5 | 84103410     | 18.0±0.3                    | 19.1                     | 22.6±0.4                 | 20.1±0.3                          | 15.6±0.3                         |

Key Characteristics Critical  
Contact Key Feature  
Amphenol for Latest Significant  
Definition Important Feature

### REVISIONS

| REV# | ECN# | REVISION ACTION                            | REV.BY: | APPR.BY: | DATE       |
|------|------|--------------------------------------------|---------|----------|------------|
| A    | --   | INITIAL RELEASE                            | Jack    | James    | 03/31/2020 |
| B    | --   | 增加表格信息                                     | Star    | James    | 10/29/2020 |
| C    | --   | Add Dust Cap And Protection Cap            | Star    | James    | 12/30/2020 |
| D    | --   | Change the temperature of technical points | Star    | James    | 12/03/2021 |
| E    | --   | Change operating temperature, voltage      | JS      | JL       | 08/11/2022 |

### 订购信息 Ordering Information

PL18 X - 50 1 - 95 - 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:

"70"=70mm<sup>2</sup>  
"95"=95mm<sup>2</sup>  
"120"=120mm<sup>2</sup>

#### Cable Type:

"-5", Huber+Suhner

#### 规格参数(Spec.):

- 工作温度 Operating temperature: -40°C ~ +125°C. △ E
- 带高压互锁 Electrical interlock (HVIL).
- 额定电流 Current rating:  
Power: 70mm<sup>2</sup>, 250A; 95mm<sup>2</sup>, 300A; 120mm<sup>2</sup>, 400A; HVIL: 5A.
- 额定电压 Operating voltage:  
Power: 1500 VDC; Signal: 60 VDC. △ E
- 耐压 Dielectric withstanding voltage:  
A. 与插座对插后, Pin与铁壳之间  
When mated, between pin and metal shell: 6000 VDC. △ E  
B. 与插座对插后, Pin与HVIL之间  
When mated, between pin and HVIL: 6000 VDC. △ E  
C. 与插座对插后, HVIL与铁壳之间  
When mated, between HVIL and metal shell: 500 VDC.  
D. 与插座对插前, 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, 符合RoHS, 满足500H中性盐雾实验  
Gray Zinc/Nickel(ZnNi)Plating. RoHS compliant, Rated at 500hours salt spray.
- 对配插座型号: Model of mating receptacle: PL00(X)-50(X)-10(XX)-2.
- 产品满足RoHS和Reach要求. RoHS and Reach compliant. △
- 绝缘体为140°RTI材料. The insulators are 140° RTI material. △ E



### Amphenol Technical Products International Asia.

| 第三角投影<br>THIRD ANGLE<br>PROJECTION | 页面<br>SHEET | 幅面<br>SIZE                                                                                                                                                                 | 版次<br>REV. | 比例<br>SCALE | PART NAME:                   |
|------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------------------------------|
|                                    | 1 OF 2      | A4                                                                                                                                                                         | E          |             | PwrLok 14mm G2 straight plug |
| 签名 SIGNATURE                       | 日期 DATE     | UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1.PL DEC ± 1.00<br>2.PL DEC ± 0.50<br>3.PL DEC ± 0.20<br>Angles ±1° |            |             | DWG NO:                      |
| 制图 DRAWN                           | July.su     | 08/11/2022                                                                                                                                                                 |            |             |                              |
| 审核 CHECKED                         |             |                                                                                                                                                                            |            |             |                              |
| 批准 APPROVAL                        |             |                                                                                                                                                                            |            |             |                              |
|                                    |             |                                                                                                                                                                            |            |             | CUST PART #                  |
|                                    |             |                                                                                                                                                                            |            |             | CUST REV.                    |

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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-501-95-2-5                                      | AC-HA011921     | AC-HA011921-2    | REV#                                            | ECN#                                         | REVISION ACTION                            | REV.BY:                                                                                                                                                                    | APPR.BY: DATE    |             |                                                |           |
| PL18Y-501-95-2-5                                      | AC-HA011922     | AC-HA011922-2    | A                                               | --                                           | INITIAL RELEASE                            | Jack                                                                                                                                                                       | James 03/31/2020 |             |                                                |           |
| PL18U-501-95-2-5                                      | AC-HA011923     | AC-HA011923-2    | B                                               | --                                           | 增加表格信息                                     | Star                                                                                                                                                                       | James 10/29/2020 |             |                                                |           |
| PL18V-501-95-2-5                                      | AC-HA011924     | AC-HA011924-2    | C                                               | --                                           | Add Dust Cap And Protection Cap            | Star                                                                                                                                                                       | James 12/30/2020 |             |                                                |           |
| PL18W-501-95-2-5                                      | AC-HA011925     | AC-HA011925-2    | D                                               | --                                           | Change the temperature of technical points | Star                                                                                                                                                                       | James 12/03/2021 |             |                                                |           |
| PL18T-501-95-2-5                                      | AC-HA011926     | AC-HA011926-2    | E                                               | --                                           | Change operating temperature, voltage      | JS                                                                                                                                                                         | JL 08/11/2022    |             |                                                |           |
| PL18X-500-95-2-5                                      | AC-HA011927     | AC-HA011927-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18Y-500-95-2-5                                      | AC-HA011928     | AC-HA011928-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18U-500-95-2-5                                      | AC-HA011929     | AC-HA011929-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18V-500-95-2-5                                      | AC-HA011930     | AC-HA011930-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18W-500-95-2-5                                      | AC-HA011931     | AC-HA011931-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18T-500-95-2-5                                      | AC-HA011932     | AC-HA011932-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18X-501-120-2-5                                     | AC-HA011933     | AC-HA011933-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18Y-501-120-2-5                                     | AC-HA011934     | AC-HA011934-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18U-501-120-2-5                                     | AC-HA011935     | AC-HA011935-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18V-501-120-2-5                                     | AC-HA011936     | AC-HA011936-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18W-501-120-2-5                                     | AC-HA011937     | AC-HA011937-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18T-501-120-2-5                                     | AC-HA011938     | AC-HA011938-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18X-500-120-2-5                                     | AC-HA011939     | AC-HA011939-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18Y-500-120-2-5                                     | AC-HA011940     | AC-HA011940-2    |                                                 |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18U-500-120-2-5                                     | AC-HA011941     | AC-HA011941-2    | 13                                              | PL500 G2 1 POS plug protection cap           | 1                                          | Order P/N AC-CP001600                                                                                                                                                      |                  |             |                                                |           |
| PL18V-500-120-2-5                                     | AC-HA011942     | AC-HA011942-2    | 12                                              | PL500 G2 Dust Cap for Plug                   | 1                                          |                                                                                                                                                                            |                  |             |                                                |           |
| PL18W-500-120-2-5                                     | AC-HA011943     | AC-HA011943-2    | 11                                              | PL500 G2 Metal Gasket                        | 1                                          | Different P/N are used according to different Cable sizes                                                                                                                  |                  |             |                                                |           |
| PL18T-500-120-2-5                                     | AC-HA011944     | AC-HA011944-2    | 10                                              | PL500 G2 Tail Cap for straight plug          | 1                                          | Different P/N are used according to different Cable sizes                                                                                                                  |                  |             |                                                |           |
| PL18X-500-70-2-5                                      | AC-HA012918     | AC-HA012918-2    | 9                                               | PL500 G2 cable sealing for straight plug     | 1                                          | Different P/N are used according to different Cable sizes                                                                                                                  |                  |             |                                                |           |
| PL18Y-500-70-2-5                                      | AC-HA012919     | AC-HA012919-2    | 8                                               | PL500 G2 Inner Copper Ring                   | 1                                          |                                                                                                                                                                            |                  |             |                                                |           |
| PL18U-500-70-2-5                                      | AC-HA012920     | AC-HA012920-2    | 7                                               | PL500 G2 Outer Copper Ring for Straight Plug | 1                                          |                                                                                                                                                                            |                  |             |                                                |           |
| PL18V-500-70-2-5                                      | AC-HA012921     | AC-HA012921-2    | 6                                               | PL500 G2 Coil Spring for straight Plug       | 1                                          |                                                                                                                                                                            |                  |             |                                                |           |
| PL18W-500-70-2-5                                      | AC-HA012922     | AC-HA012922-2    | 5                                               | PL500 G2 Lock Housing2                       | 1                                          |                                                                                                                                                                            |                  |             |                                                |           |
| PL18T-500-70-2-5                                      | AC-HA012923     | AC-HA012923-2    | 4                                               | PL500 G2 Lock Housing1                       | 2                                          | Different P/N are used according to different Cable sizes                                                                                                                  |                  |             |                                                |           |
| PL18X-501-70-2-5                                      | AC-HA012924     | AC-HA012924-2    | 3                                               | PL500 G2 Insulation Sleeve Assy              | 1                                          |                                                                                                                                                                            |                  |             |                                                |           |
| PL18Y-501-70-2-5                                      | AC-HA012925     | AC-HA012925-2    | 2                                               | PL500 G2 Terminal Assy                       | 1                                          | Different P/N are used according to different Cable sizes                                                                                                                  |                  |             |                                                |           |
| PL18U-501-70-2-5                                      | AC-HA012926     | AC-HA012926-2    | 1                                               | PL500 G2 Shell Plug Assy                     | 1                                          | Different P/N are used according to different Cable sizes                                                                                                                  |                  |             |                                                |           |
| PL18V-501-70-2-5                                      | AC-HA012927     | AC-HA012927-2    | ITEM                                            | DESCRIPTION                                  | QTY                                        | REMARK                                                                                                                                                                     |                  |             |                                                |           |
| PL18W-501-70-2-5                                      | AC-HA012928     | AC-HA012928-2    | MATERIALS LIST                                  |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| PL18T-501-70-2-5                                      | AC-HA012929     | AC-HA012929-2    | Amphenol Technical Products International Asia. |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
|                                                       |                 |                  | 第三角投影<br>THIRD ANGLE<br>PROJECTION              |                                              | 页面<br>SHEET                                | 幅面<br>SIZE                                                                                                                                                                 | 版次<br>REV.       | 比例<br>SCALE | PART NAME:<br><br>PwrLok 14mm G2 straight plug |           |
|                                                       |                 |                  | 签名 SIGNATURE                                    |                                              | 日期 DATE                                    | UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1.PL DEC ± 1.00<br>2.PL DEC ± 0.50<br>3.PL DEC ± 0.20<br>Angles ±1° |                  |             | DWG NO:<br>PL18X-50X-XX-2-5                    |           |
|                                                       |                 |                  | 制图 DRAWN                                        |                                              | July.su                                    | 08/11/2022                                                                                                                                                                 |                  |             | CUST PART #                                    | CUST REV. |
|                                                       |                 |                  | 审核 CHECKED                                      |                                              |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| Key Characteristics<br>Amphenol for Latest Definition |                 |                  | Critical 关键特性<br>Significant 重要性                | 批准 APPROVAL                                  |                                            |                                                                                                                                                                            |                  |             |                                                |           |
| 1                                                     | 2               | 3                | 4                                               | 5                                            | 6                                          | 7                                                                                                                                                                          | 8                |             |                                                |           |