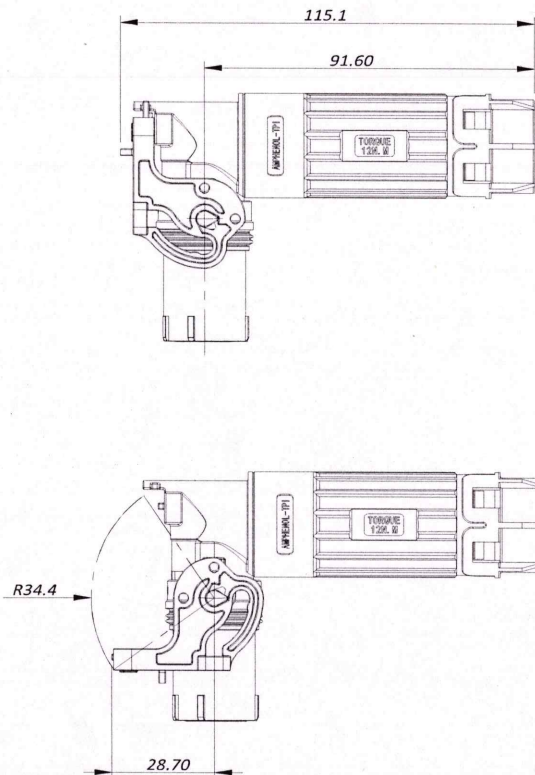
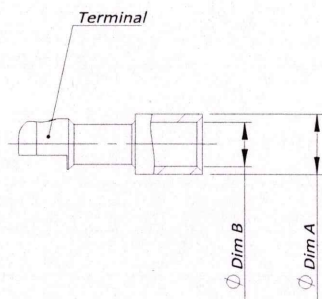
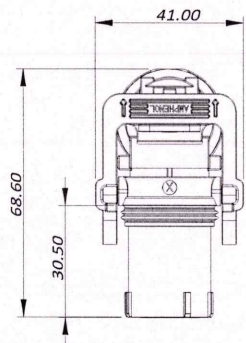


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# CUSTOMER DRAWING

Amphenol TPI  
2022-02-10  
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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" |
|--------------------|--------------|-----------------------------|--------------------------|--------------------------|-----------------------------------|----------------------------------|
| PL28(X)-30X-70-2-5 | 84100298     | 13.7 ± 0.3                  | 14.6                     | 17.0 ± 0.3               | 16.7 ± 0.3                        | 12.2 ± 0.3                       |
| PL28(X)-30X-50-2-5 | 84096257     | 11.5 ± 0.3                  | 12.6                     | 14.9 ± 0.3               | 14.0 ± 0.3                        | 10.0 ± 0.3                       |

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



## 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          | D          |            |             | PL300 G2 1POS Right Angle Plug |
| 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>PL28X-30X-XX-2-5    |
| CUST PART #                                                                                                                                                                    |             |            |            |             | CUST REV.                      |

## REVISIONS

| REV# | ECN# | REVISION ACTION                                                           | REV.BY: | APPR.BY: | DATE       |
|------|------|---------------------------------------------------------------------------|---------|----------|------------|
| A    | --   | INITIAL RELEASE                                                           | Jack    | James    | 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 and remove HVIL Protection Cap | Star    | JL       | 01/25/2022 |

## 订购信息 Ordering Information

PL28 X - 30 1 - 70 - 2 - 5

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

## 规格参数(Spec.):

1. 工作温度 Operating temperature: -40°C ~ +140°C.  $\triangle D$
2. 带高压互锁 Electrical interlock (HVIL).
3. 额定电流 Current rating:  
Power: 50mm<sup>2</sup> 2,200A; 70mm<sup>2</sup> 2,250A; 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.
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. 带CPA的摇杆系统 Latch system with CPA.
10. 绝缘材料满足UL94 V-0 Inner insulation material satisfy UL94V-0.
11. 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.
12. 产品满足RoHS和REACH要求, Parts must be RoHS and reach compliant  $\triangle C$

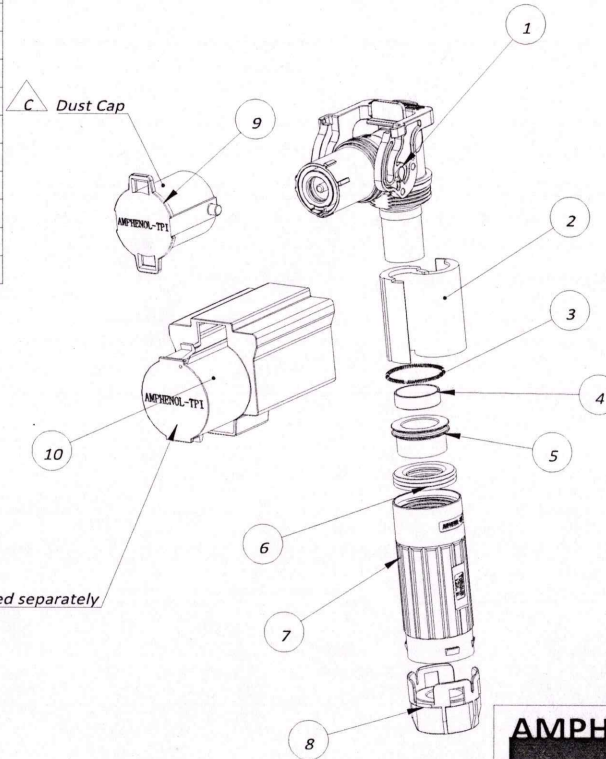


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| 1                | 2               | 3                |
|------------------|-----------------|------------------|
| 型号 Model         | Kit Package P/N | Bulk Package P/N |
| PL28X-300-50-2-5 | AC-HA010890     | AC-HA010890-2    |
| PL28Y-300-50-2-5 | AC-HA010891     | AC-HA010891-2    |
| PL28U-300-50-2-5 | AC-HA010892     | AC-HA010892-2    |
| PL28V-300-50-2-5 | AC-HA010893     | AC-HA010893-2    |
| PL28W-300-50-2-5 | AC-HA010894     | AC-HA010894-2    |
| PL28T-300-50-2-5 | AC-HA010895     | AC-HA010895-2    |
| PL28X-300-70-2-5 | AC-HA010896     | AC-HA010896-2    |
| PL28Y-300-70-2-5 | AC-HA010897     | AC-HA010897-2    |
| PL28U-300-70-2-5 | AC-HA010898     | AC-HA010898-2    |
| PL28V-300-70-2-5 | AC-HA010899     | AC-HA010899-2    |
| PL28W-300-70-2-5 | AC-HA010900     | AC-HA010900-2    |
| PL28T-300-70-2-5 | AC-HA010901     | AC-HA010901-2    |
| PL28X-301-50-2-5 | AC-HA010914     | AC-HA010914-2    |
| PL28Y-301-50-2-5 | AC-HA010915     | AC-HA010915-2    |
| PL28U-301-50-2-5 | AC-HA010916     | AC-HA010916-2    |
| PL28V-301-50-2-5 | AC-HA010917     | AC-HA010917-2    |
| PL28W-301-50-2-5 | AC-HA010918     | AC-HA010918-2    |
| PL28T-301-50-2-5 | AC-HA010919     | AC-HA010919-2    |
| PL28X-301-70-2-5 | AC-HA010920     | AC-HA010920-2    |
| PL28Y-301-70-2-5 | AC-HA010921     | AC-HA010921-2    |
| PL28U-301-70-2-5 | AC-HA010922     | AC-HA010922-2    |
| PL28V-301-70-2-5 | AC-HA010923     | AC-HA010923-2    |
| PL28W-301-70-2-5 | AC-HA010924     | AC-HA010924-2    |
| PL28T-301-70-2-5 | AC-HA010925     | AC-HA010925-2    |

Amphenol TPI  
2022-02-10  
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| REVISIONS |      |                                                                           |         |          |            |
|-----------|------|---------------------------------------------------------------------------|---------|----------|------------|
| REV#      | ECN# | REVISION ACTION                                                           | REV.BY: | APPR.BY: | DATE       |
| A         | --   | INITIAL RELEASE                                                           | Jack    | James    | 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 and remove HVIL Protection Cap | Star    | JL       | 01/25/2022 |



Note: Optional to be ordered separately.

| 10   | PL300 G2 1 POS plug protection cap      | 1   | Order P/N AC-CP001615                                     |
|------|-----------------------------------------|-----|-----------------------------------------------------------|
| 9    | PL300 G2 Dust cover for Plug            | 1   |                                                           |
| 8    | PL300 G2 R/A Tail Cap H+S cable         | 1   | Different P/N are used according to different Cable sizes |
| 7    | PL300 G2 Back Shell 14mm-90             | 1   | Different P/N are used according to different Cable sizes |
| 6    | PL300 G2 cale sealing                   | 1   | Different P/N are used according to different Cable sizes |
| 5    | PL300 G2 Outer Copper Ring for R/A Plug | 1   | Different P/N are used according to different Cable sizes |
| 4    | PL300 G2 Inner Copper Ring              | 1   | Different P/N are used according to different Cable sizes |
| 3    | PL300 G2 Canted Coil Spring for Plug    | 1   |                                                           |
| 2    | PL300 G2 Plastic set                    | 2   |                                                           |
| 1    | PL300 G2 Front Shell 14mm-90 Assy       | 1   | Different P/N are used according to different Cable sizes |
| ITEM | DESCRIPTION                             | QTY | REMARK                                                    |

MATERIALS LIST



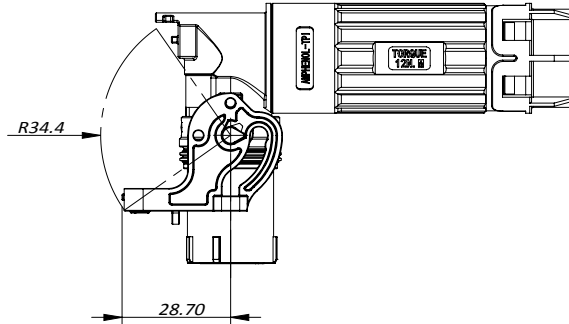
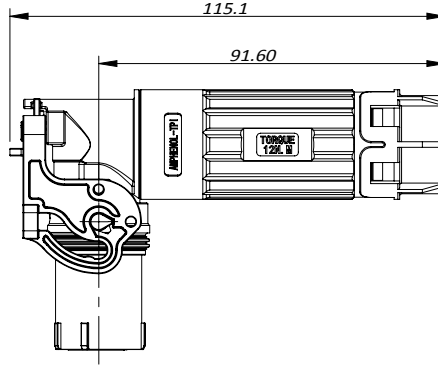
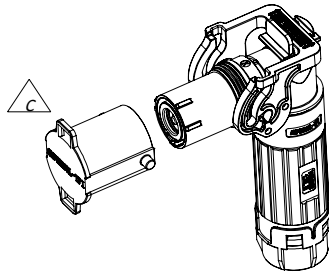
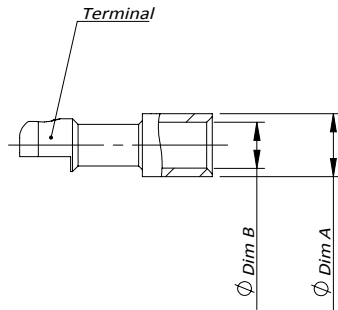
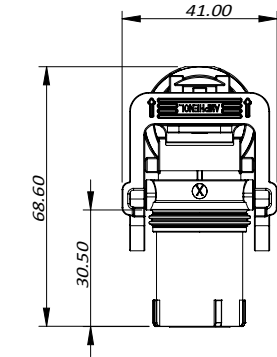
Amphenol Technical Products International Asia.

| 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:                     |
|------------------------------------|-------------|------------|------------|-------------|--------------------------------|
| 2 OF 2                             | A4          | D          |            |             | PL300 G2 1POS Right Angle Plug |

|                                                       |                    |                                                                                                                                                                                |
|-------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Key Characteristics<br>Amphenol for Latest Definition | C Critical<br>关键特性 | S Significant<br>重要特性                                                                                                                                                          |
| 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° |
| 制图 DRAWN                                              | Star               | 01/25/2022                                                                                                                                                                     |
| 审核 CHECKED                                            | Star               | 01/26/2022                                                                                                                                                                     |
| 批准 APPROVAL                                           | Star               | 2022-1-26                                                                                                                                                                      |
| DWG NO:                                               |                    | PL28X-30X-XX-2-5                                                                                                                                                               |
| CUST PART #                                           |                    | CUST REV.                                                                                                                                                                      |

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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" |
|--------------------|--------------|-----------------------------|--------------------------|--------------------------|-----------------------------------|----------------------------------|
| PL28(X)-30X-70-2-5 | 84100298     | 13.7±0.3                    | 14.6                     | 17.0±0.3                 | 16.7±0.3                          | 12.2±0.3                         |
| PL28(X)-30X-50-2-5 | 84096257     | 11.5±0.3                    | 12.6                     | 14.9±0.3                 | 14.0±0.3                          | 10.0±0.3                         |



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

|                                                                                                                                                     |  |                                                                                       |        |                            |       |                                                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--------|----------------------------|-------|--------------------------------------------------|--|
| <div>AMPHENOL</div> <div>TP</div>                                                                                                                   |  | Amphenol Technical Products International Asia.                                       |        |                            |       |                                                  |  |
| <div>第三角投影</div> <div>THIRD ANGLE PROJECTION</div> <div></div> |  | 页面                                                                                    | 幅面     | 版次                         | 比例    | PART NAME:<br><br>PL300 G2 1POS Right Angle Plug |  |
|                                                                                                                                                     |  | SHEET                                                                                 | SIZE   | REV.                       | SCALE |                                                  |  |
|                                                                                                                                                     |  |  | 1 OF 2 | A4                         | D     |                                                  |  |
| 签名 SIGNATURE                                                                                                                                        |  | 日期 DATE                                                                               |        | UNLESS OTHERWISE SPECIFIED |       | DWG NO:                                          |  |
| 制图 DRAWN                                                                                                                                            |  | Star                                                                                  |        | 01/25/2022                 |       | PL28X-30X-XX-2-5                                 |  |
| 审核 CHECKED                                                                                                                                          |  |                                                                                       |        |                            |       | CUST PART #                                      |  |
| 批准 APPROVAL                                                                                                                                         |  |                                                                                       |        |                            |       | CUST REV.                                        |  |
|                                                                                                                                                     |  |                                                                                       |        |                            |       |                                                  |  |
|                                                                                                                                                     |  |                                                                                       |        | Angles ±1°                 |       |                                                  |  |

### REVISIONS

| REV# | ECN# | REVISION ACTION                                                           | REV.BY: | APPR.BY: | DATE       |
|------|------|---------------------------------------------------------------------------|---------|----------|------------|
| A    | --   | INITIAL RELEASE                                                           | Jack    | James    | 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 and remove HVIL Protection Cap | Star    | JL       | 01/25/2022 |

### 订购信息 Ordering Information

PL28 X - 30 1 - 70 - 2 -5

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

HVIL Cable size:  
"0", NO HVIL "70"=70mm<sup>2</sup>  
"1", With HVIL "50"=50mm<sup>2</sup>

Cable Type:  
"-5", Huber+Suhner

### 规格参数(Spec.):

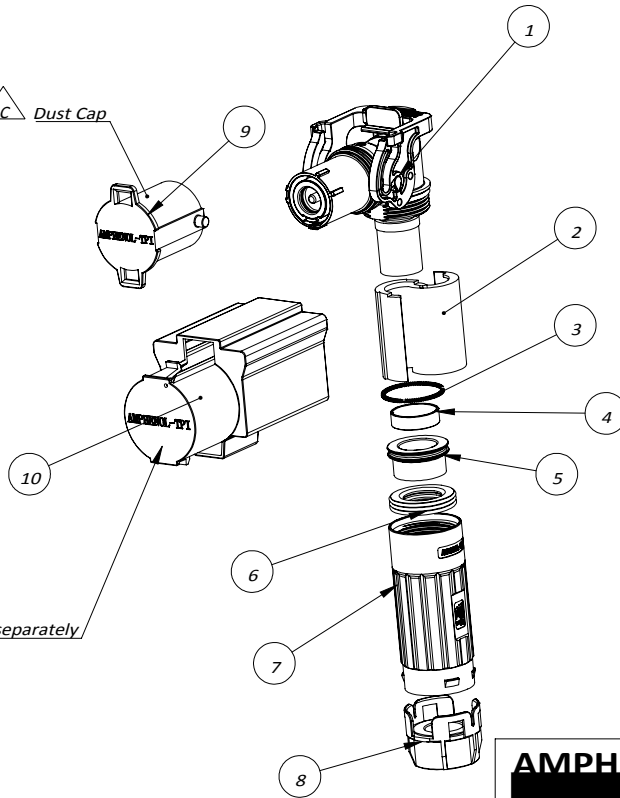
- 工作温度 Operating temperature: -40°C ~ +140°C.
- 带高压互锁 Electrical interlock (HVIL).
- 额定电流 Current rating:  
Power: 50mm<sup>2</sup> 2,200A; 70mm<sup>2</sup> 2,500A; HVIL: 5A.
- 额定电压 Operating voltage:  
Power: 1000 VDC; Signal: 60 VDC.
- 耐电压 Dielectric withstanding voltage:  
A. 与插座对接后, Pin与铁壳之间  
When 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. 与插座对接后, 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的插杆系统 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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| 1                | 2               | 3                |
|------------------|-----------------|------------------|
| 型号 Model         | Kit Package P/N | Bulk Package P/N |
| PL28X-300-50-2-5 | AC-HA010890     | AC-HA010890-2    |
| PL28Y-300-50-2-5 | AC-HA010891     | AC-HA010891-2    |
| PL28U-300-50-2-5 | AC-HA010892     | AC-HA010892-2    |
| PL28V-300-50-2-5 | AC-HA010893     | AC-HA010893-2    |
| PL28W-300-50-2-5 | AC-HA010894     | AC-HA010894-2    |
| PL28T-300-50-2-5 | AC-HA010895     | AC-HA010895-2    |
| PL28X-300-70-2-5 | AC-HA010896     | AC-HA010896-2    |
| PL28Y-300-70-2-5 | AC-HA010897     | AC-HA010897-2    |
| PL28U-300-70-2-5 | AC-HA010898     | AC-HA010898-2    |
| PL28V-300-70-2-5 | AC-HA010899     | AC-HA010899-2    |
| PL28W-300-70-2-5 | AC-HA010900     | AC-HA010900-2    |
| PL28T-300-70-2-5 | AC-HA010901     | AC-HA010901-2    |
| PL28X-301-50-2-5 | AC-HA010914     | AC-HA010914-2    |
| PL28Y-301-50-2-5 | AC-HA010915     | AC-HA010915-2    |
| PL28U-301-50-2-5 | AC-HA010916     | AC-HA010916-2    |
| PL28V-301-50-2-5 | AC-HA010917     | AC-HA010917-2    |
| PL28W-301-50-2-5 | AC-HA010918     | AC-HA010918-2    |
| PL28T-301-50-2-5 | AC-HA010919     | AC-HA010919-2    |
| PL28X-301-70-2-5 | AC-HA010920     | AC-HA010920-2    |
| PL28Y-301-70-2-5 | AC-HA010921     | AC-HA010921-2    |
| PL28U-301-70-2-5 | AC-HA010922     | AC-HA010922-2    |
| PL28V-301-70-2-5 | AC-HA010923     | AC-HA010923-2    |
| PL28W-301-70-2-5 | AC-HA010924     | AC-HA010924-2    |
| PL28T-301-70-2-5 | AC-HA010925     | AC-HA010925-2    |



Note: Optional to be ordered separately



| REVISIONS |      |                                                                           |         |          |            |
|-----------|------|---------------------------------------------------------------------------|---------|----------|------------|
| REV#      | ECN# | REVISION ACTION                                                           | REV.BY: | APPR.BY: | DATE       |
| A         | --   | INITIAL RELEASE                                                           | Jack    | James    | 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 and remove HVIL Protection Cap | Star    | JL       | 01/25/2022 |

| ITEM           | DESCRIPTION                             | QTY | REMARK                                                    |
|----------------|-----------------------------------------|-----|-----------------------------------------------------------|
| 10             | PL300 G2 1 POS plug protection cap      | 1   | Order P/N AC-CP001615                                     |
| 9              | PL300 G2 Dust cover for Plug            | 1   |                                                           |
| 8              | PL300 G2 R/A Tail Cap H+S cable         | 1   | Different P/N are used according to different Cable sizes |
| 7              | PL300 G2 Back Shell 14mm-90             | 1   | Different P/N are used according to different Cable sizes |
| 6              | PL300 G2 cale sealing                   | 1   | Different P/N are used according to different Cable sizes |
| 5              | PL300 G2 Outer Copper Ring for R/A Plug | 1   | Different P/N are used according to different Cable sizes |
| 4              | PL300 G2 Inner Copper Ring              | 1   | Different P/N are used according to different Cable sizes |
| 3              | PL300 G2 Canted Coil Spring for Plug    | 1   |                                                           |
| 2              | PL300 G2 Plastic set                    | 2   |                                                           |
| 1              | PL300 G2 Front Shell 14mm-90 Assy       | 1   | Different P/N are used according to different Cable sizes |
| MATERIALS LIST |                                         |     |                                                           |

|                                    |  |                                                        |            |                                                                                                                                                                                 |             |                                              |  |  |  |
|------------------------------------|--|--------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------|--|--|--|
| <b>AMPHENOL</b>                    |  | <b>Amphenol Technical Products International Asia.</b> |            |                                                                                                                                                                                 |             |                                              |  |  |  |
| 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>PL300 G2 1POS Right Angle Plug |  |  |  |
| 2 OF 2                             |  | A4                                                     | D          | 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>PL28X-30X-XX-2-5        |  | CUST PART #                                            |            | CUST REV.                                                                                                                                                                       |             |                                              |  |  |  |

|                                                                  |                    |                        |              |
|------------------------------------------------------------------|--------------------|------------------------|--------------|
| Key Characteristics<br>Contact<br>Amphenol for Latest Definition | Critical<br>关键特性   | Signature<br>SIGNATURE | Date<br>DATE |
| Significant<br>重要性                                               | Significant<br>重要性 | Star                   | 01/25/2022   |
| 审核<br>CHECKED                                                    |                    | 批准<br>APPROVAL         |              |