H3A IP65 Plastic Hood and Housing Series

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1. INTRODUCTION

This specification contains the regulations for assembly of various H3A IP65 plastic Hood and Housing.

The following components are available in this system:

Hood and housing: H3A.

2. SUPPORTING DOCUMENTS

2.1. Customer drawings

For dimensions and materials of the individual parts, please refer to the relative customer drawings of H3A.

2.2. Product specification

The product specifications of the used articles are to be taken into account. The product specification describes the technical data as regulations, temperature range and degree of protection. For further reference, please refer to product spec. 108-137134.

2.3. Application Specification

Connectors shall be assembled as below mentioned application specifications to ensure correct connector assembly.

2.4. Standards

- EN 61984: Connectors - Safety requirements and tests
- IEC 60664-1: Insulation coordination for equipment within low-voltage systems (Part 1)
- EN 60529: Degrees of Protection Provided by Enclosures (IP Code)
- EN 60068: Environmental testing

3. DESCRPTION

3.1. Assembly product

The following picture (Figure 1) shows an example of complete assembly product.

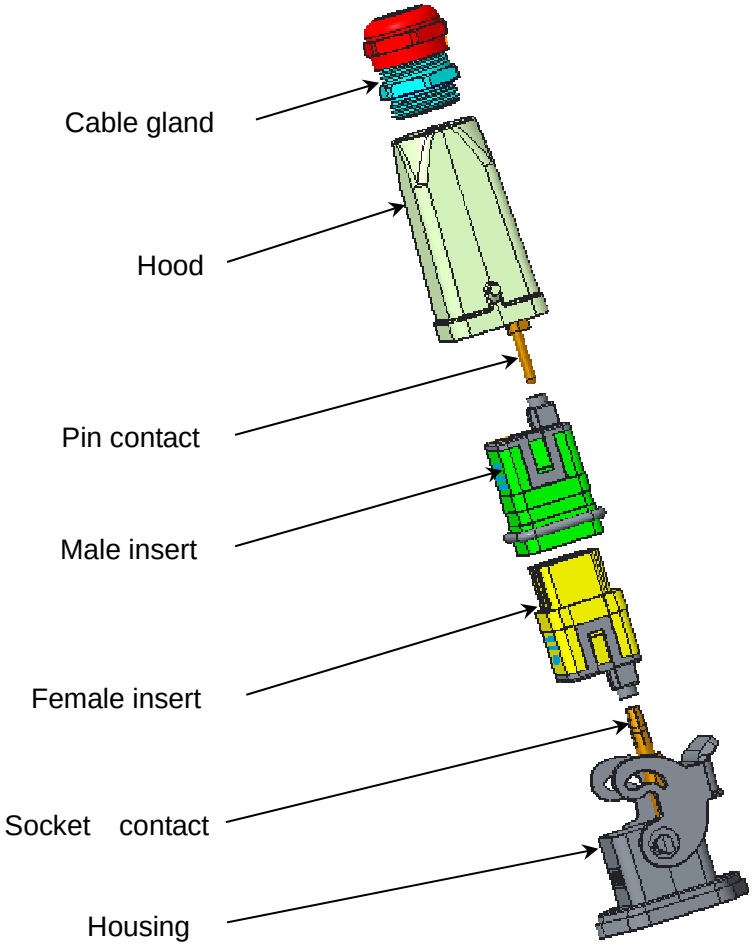


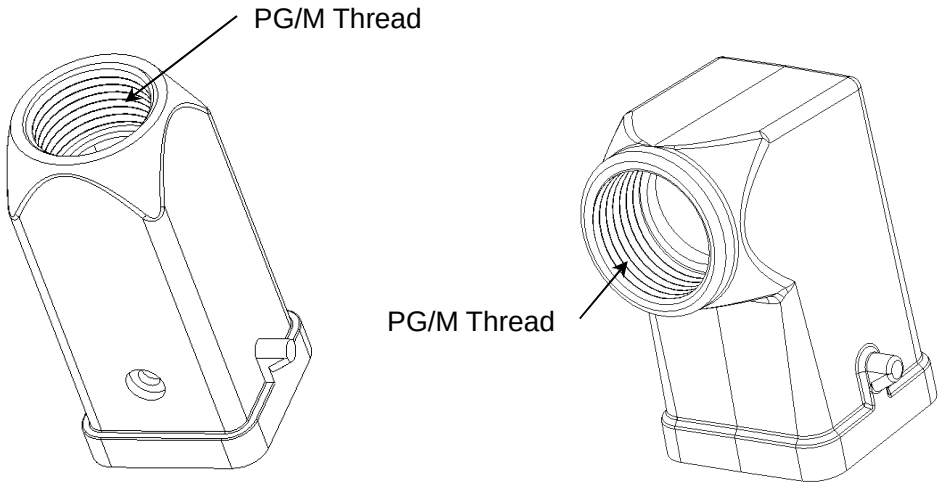
Figure: 1

The complete product consists of the following components (see figure 1):

- Cable gland
- Hood
- Pin contact
- Male insert
- Female insert
- Socket contact
- Housing

3.2. Hood and housing types

3.2.1. Hood type



H3A-TG-PG/M
Top entry
with 2 bolt

H3A-TS-PG/M
Side entry
with 2 bolt

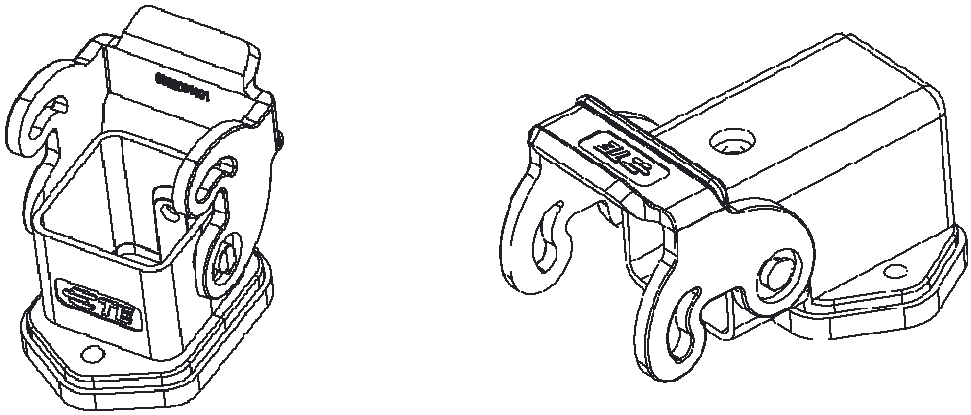
Figure: 2

- PG/M Thread optional: PG11,M20

  Note: Different hood& housing size has different optional PG/M Thread. Refer to drawings for detailed information.

3.2.2. Housing type

3.2.2.1. Bulkhead mounted housing

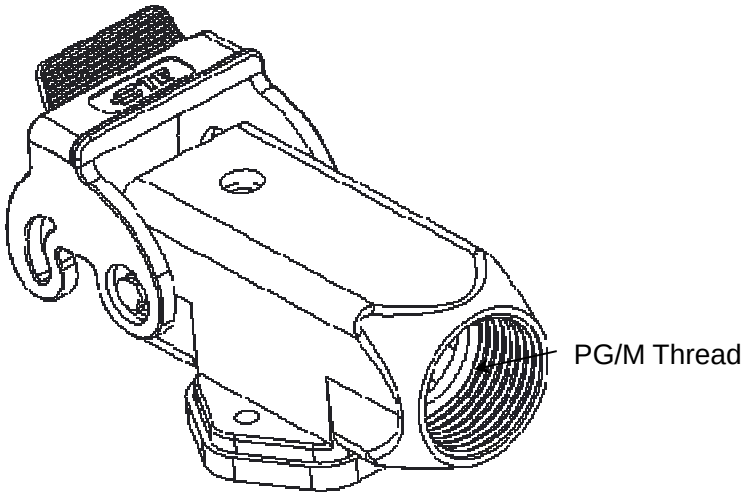


H3A-AG
Bottom entry
with 1 level locking

H3A-AGS
Side entry
with 1 level locking

Figure: 3

3.2.2.2. Surface mounted housing



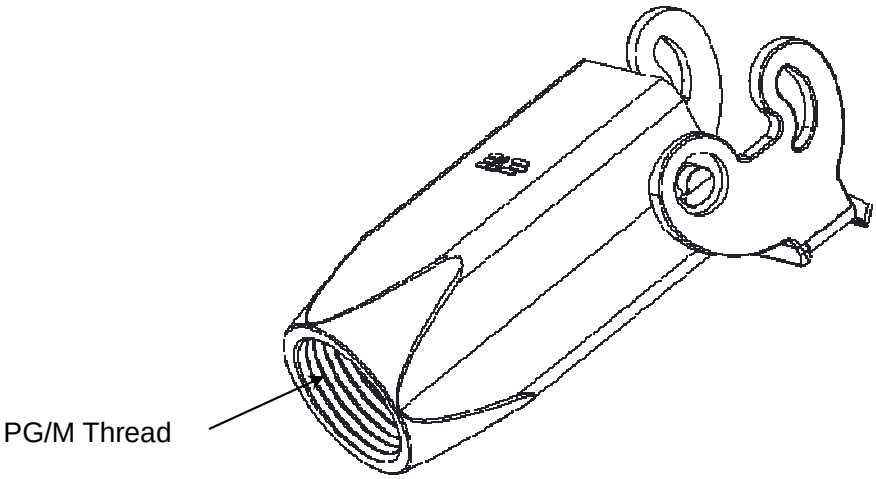
H3A-AGSV-PG/M
Side entry
with 1 level locking

Figure: 4

- PG/M Thread optional: PG11,M16,M20

  Note: Different hood& housing size has different optional PG/M Thread. Refer to drawings for detailed information.

3.2.2.3. Cable-to-Cable Housing



H3A-TGVB-PG/M
with 1 level locking

Figure: 5

- PG/M Thread optional: PG11,M20

  Note: Different hood& housing size has different optional PG/M Thread. Refer to drawings for detailed information.

4. REQUIREMENTS

4.1. Panel cut-out

For bulkhead mounted housing or surface mounted housings, for example as shown in Figure 6.

More detailed information also can be found from related customer drawings.

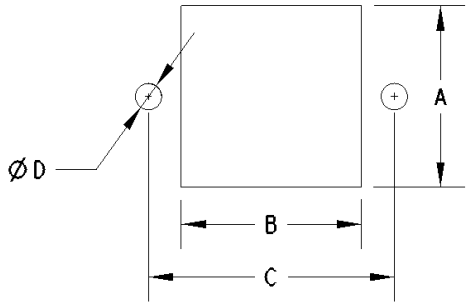


Figure: 6

Size	Dimension(mm)			
	A	B	C	D
H3A	22	22	30	For M3 screw

5. ASSEMBLY

5.1. Assembly housing on panel

For bulkhead mounted housing or surface mounted housings

Fix housing with 2 x M3 screws. Tightening torque refer to spec of screws, but no less than 0.5Nm.

For example as shown in Figure 7.

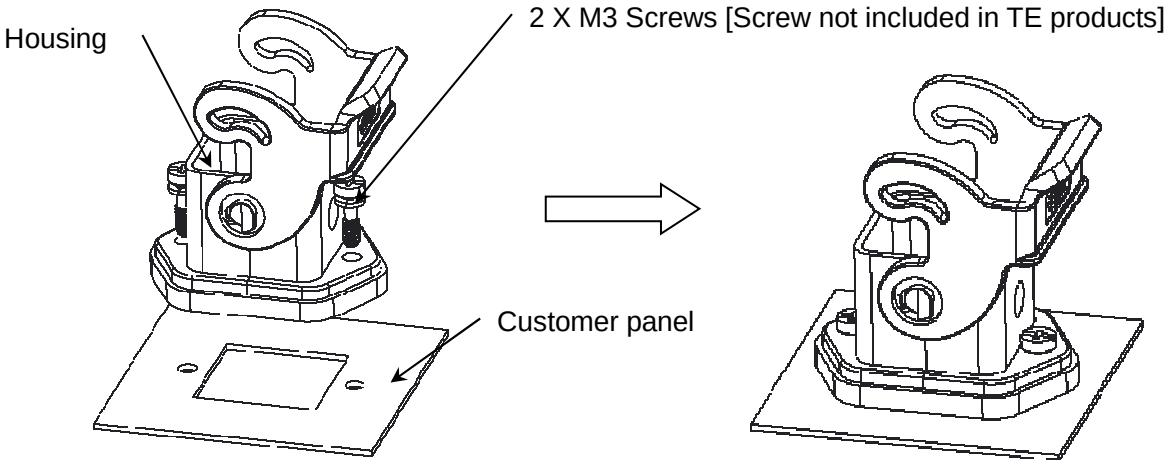


Figure: 7

5.2. Assembly male/female insert into hood/housing

The inserts are fixed into the hood/housing with M3 fixing screw and O-ring. And these M3 fixing screw and O-Ring are components on inserts. Tightening torque refer to spec of insert drawing.

For example as shown in Figure 8.

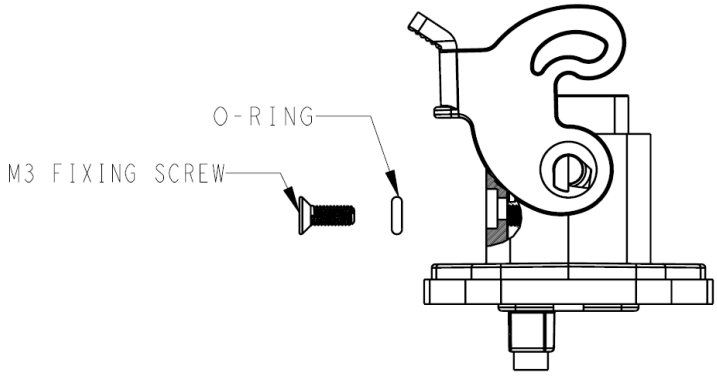


Figure: 8

Note:

- Refer application spec of male/female insert separately and before fixing to hood/housing, male/female insert should be well prepared.
- Whatever the type of hood/housing or the type of male/female insert, they have same assembly process here.

5.3. Assembly cable gland with hood/housing

Fix cable gland to hood/housing. Tightening torque refer to spec of cable gland.

For example as shown in Figure 9.

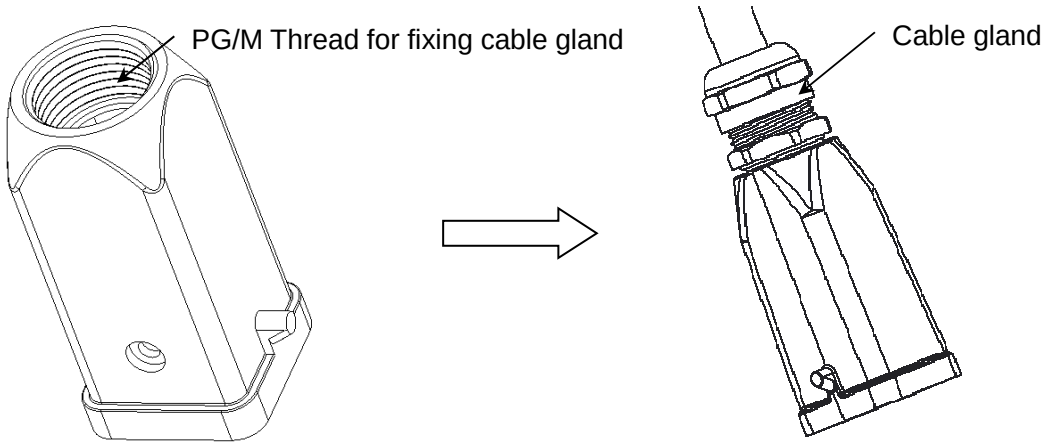


Figure: 9

Note:

- Refer application spec of cable gland separately.
- Whatever the type of hood/housing or the type & size of thread hole, they have same assembly process here.

5.4. Assembly hood with housing

A complete locking system with locking consists of the following components, for example as shown in Figure 10. The locking is used for the locking of the housing and hood. The locking is fixed on the housing and have to be pushed up to lock the hood.

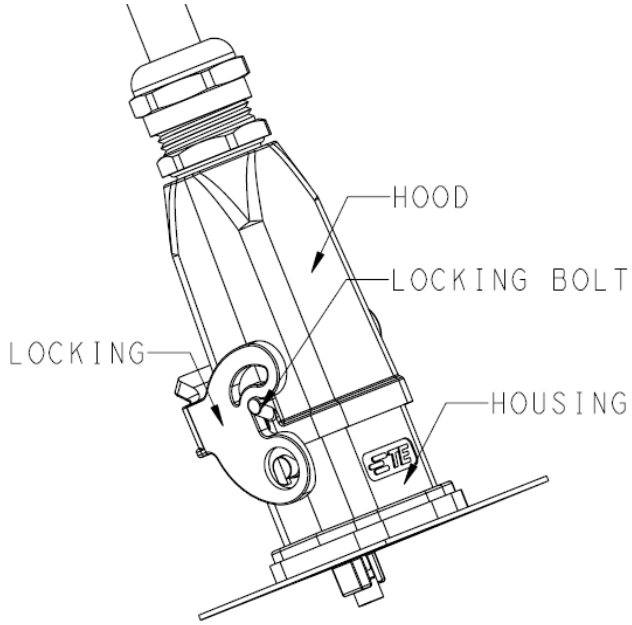


Figure: 10

Note:

· Whatever the type of hood & housing, they have same assembly process here.

6. STORAGE

The connectors should be stored in the air ventilation, no corrosive gas, no rain and no snow in the warehouse. Relative humidity: less than 85% RH.

NOTE

Any conflict is found between this file and customer drawings, customer drawings are preferential. And please contact TE Connectivity related engineer if necessary.

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