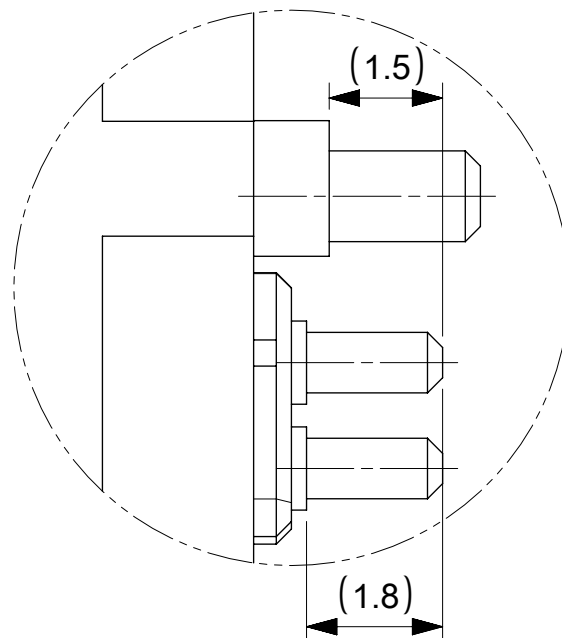
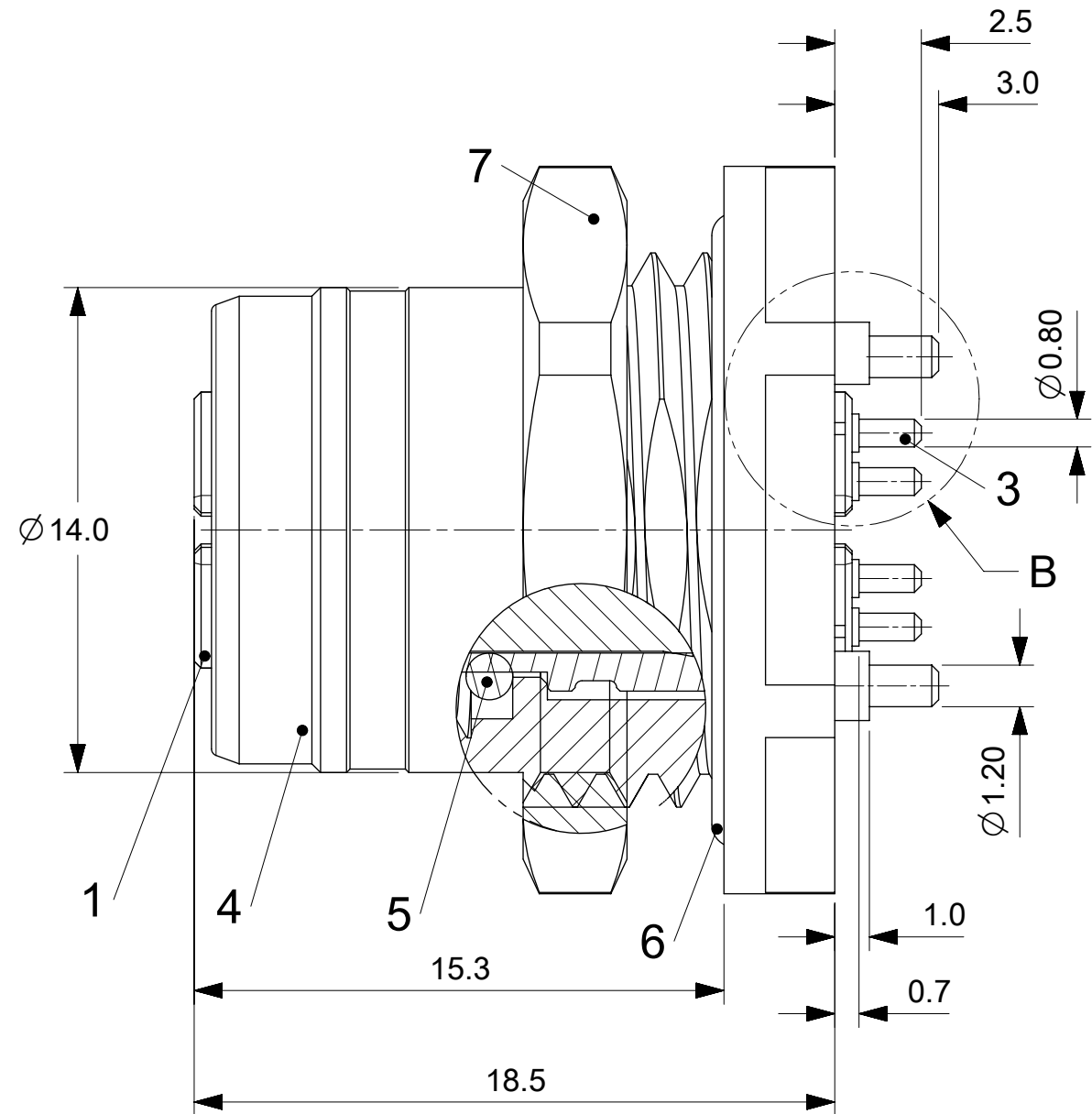
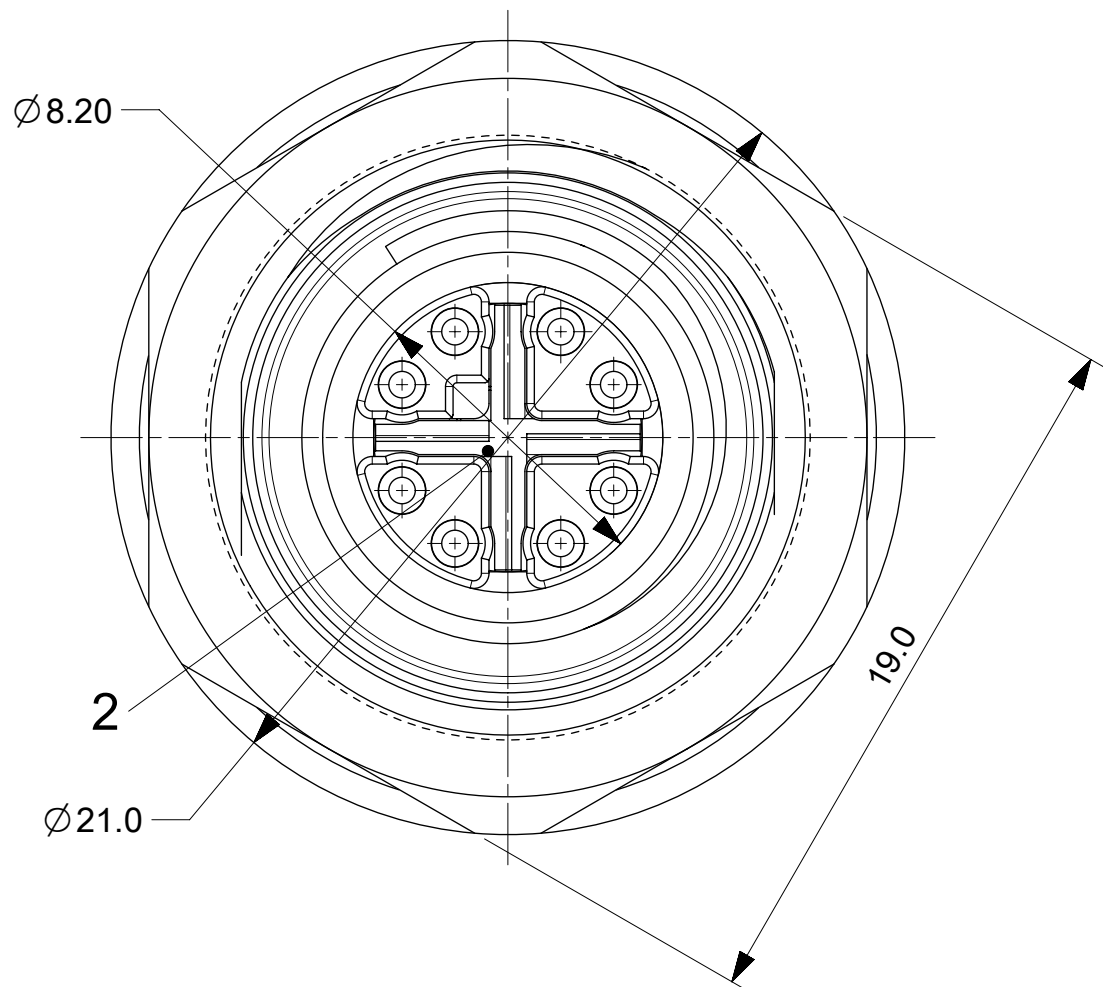
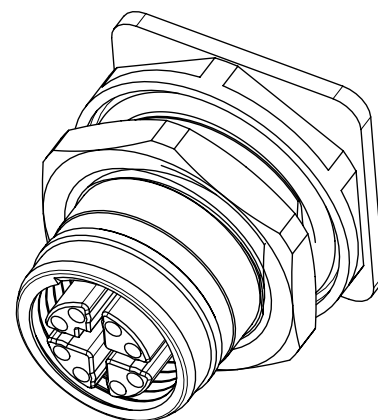




DETAIL B  
SCALE 10:1

SCALE 2:1



Technical Data:  
M12 CAT6A receptacle back mount PCB 360° shielded.  
Suited for wave application.

Poles: 8  
Max. Voltage: 48V  
Max Current: 0,5A  
Contact resistance: Less than 5m Ohm  
Insulation withstand: >100M Ohm  
Protection: IP67  
Temperature range: -40°C to 85°C  
Transmission characteristics (category): CAT6

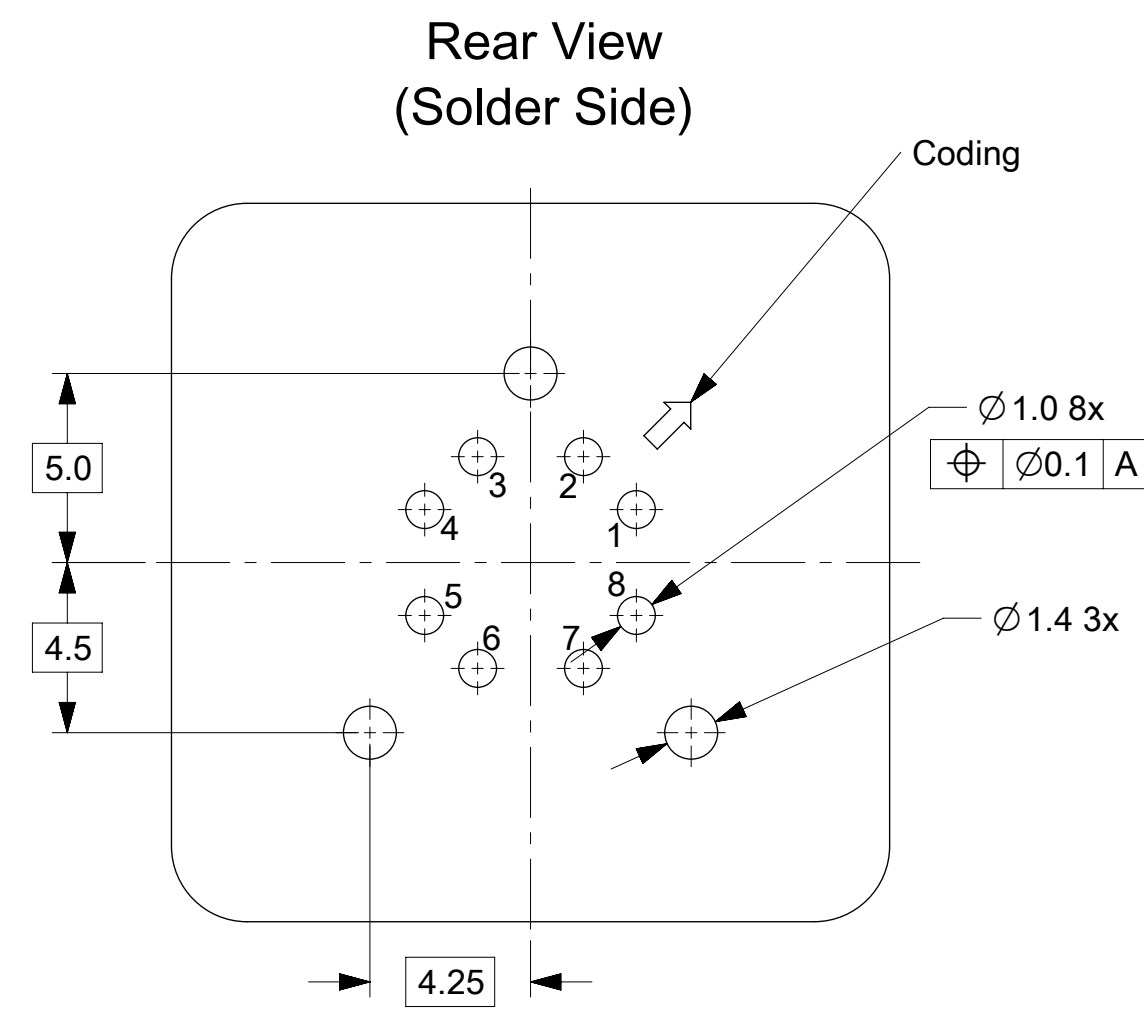
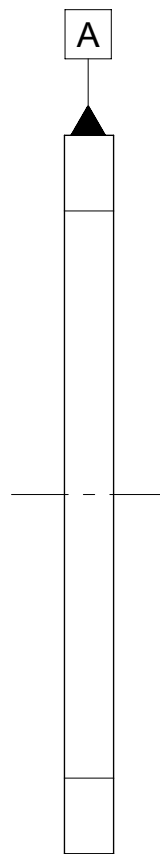
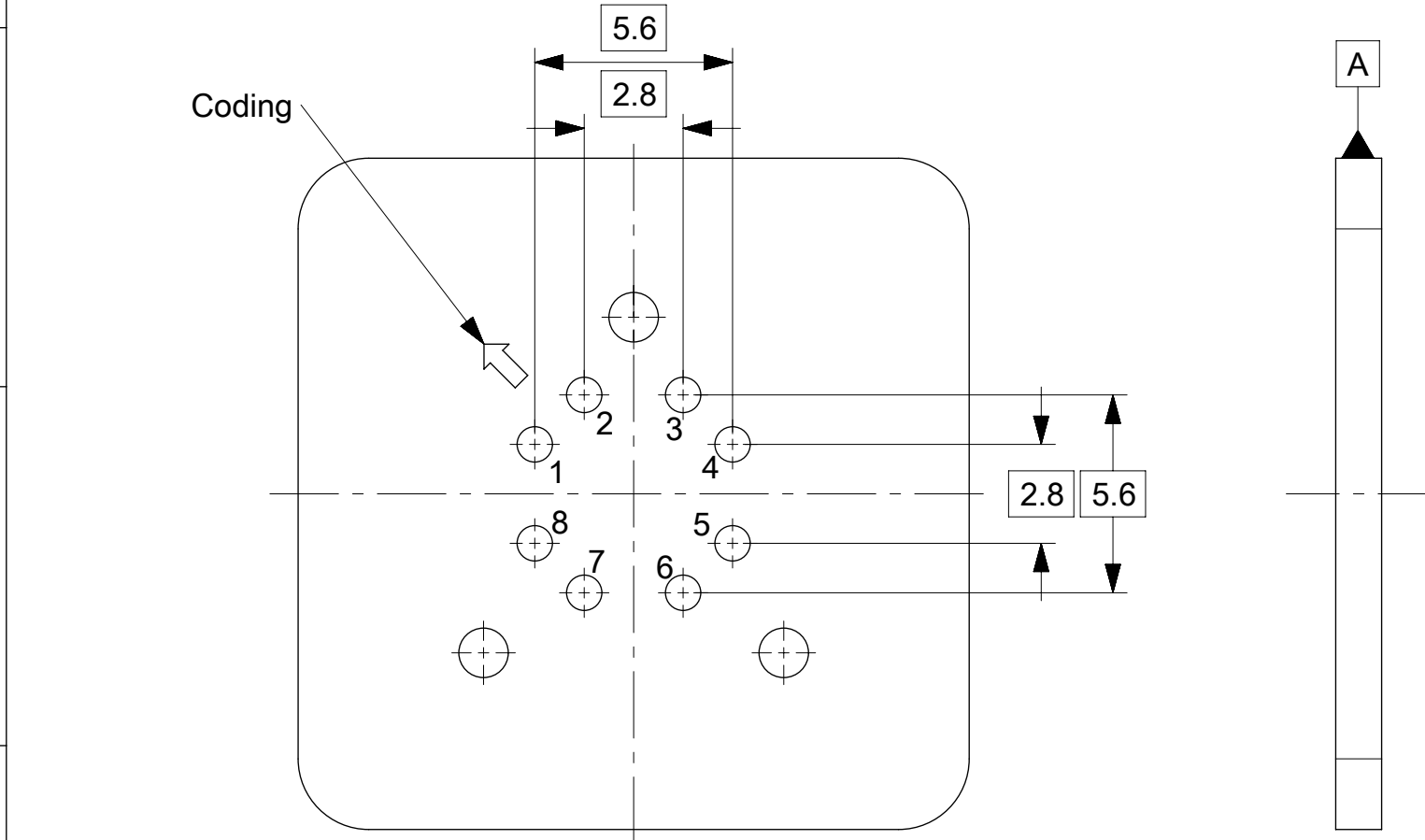
For product specification see: PS-120341-001a

Packaging:  
The receptacles are delivered in blister packs a 25 parts.  
8 blister packages per carton.  
All together 200 parts.

### BOM

| POS | DESCRIPTION      | MATERIAL | FINISH           |
|-----|------------------|----------|------------------|
| 1   | INSERT           | PA BK    | -                |
| 2   | SCHIELDING CROSS | BRASS    | NICKEL PLATED    |
| 3   | CONTACT          | BRASS    | GOLD OVER NICKEL |
| 4   | HOUSING          | BRASS    | NICKEL PLATED    |
| 5   | O-RING 7.1x1.35  | FPM      | RED              |
| 6   | O-RING 15.7x1.3  | EPDM BK  | -                |
| 7   | LOCK NUT         | BRASS    | NICKEL PLATED    |

| FUNCTIONAL SYMBOLS                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |        |         |                                                                                                               |        |  |  |  |                                               |          |          |  |  |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|---------|---------------------------------------------------------------------------------------------------------------|--------|--|--|--|-----------------------------------------------|----------|----------|--|--|
| <div>FA = 0</div>                                    | DIMENSION UNITS                                                                                                                               |  | SCALE  |         | CURRENT REV DESC: REFERENCE TO "PANEL THICKNESS WITHOUT LOCKNUT" DELETED D4 REPLACE 1301830008 BY 1301830068; |        |  |  |  | molex                                         |          |          |  |  |
|                                                      | mm                                                                                                                                            |  | 5:1    |         |                                                                                                               |        |  |  |  |                                               |          |          |  |  |
| <div>FE = 0</div>                                    | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |        |         |                                                                                                               |        |  |  |  | REC M12 8P 0C FE FM                           |          |          |  |  |
| <div>FP = 0</div>                                    | ANGULAR TOL ± 1.0°                                                                                                                            |  |        |         |                                                                                                               |        |  |  |  |                                               |          |          |  |  |
| DIVISIONAL SYMBOLS                                   | 4 PLACES                                                                                                                                      |  | ±      |         |                                                                                                               |        |  |  |  |                                               |          |          |  |  |
|                                                      | 3 PLACES                                                                                                                                      |  | ±      |         |                                                                                                               |        |  |  |  |                                               |          |          |  |  |
|                                                      | 2 PLACES                                                                                                                                      |  | ± 0.05 |         | DOCUMENT NUMBER<br>1203410150                                                                                 |        |  |  |  | DOC TYPE                                      | DOC PART | REVISION |  |  |
|                                                      | 1 PLACE                                                                                                                                       |  | ± 0.3  |         |                                                                                                               |        |  |  |  | PSD                                           | 000      | C        |  |  |
|                                                      | 0 PLACES                                                                                                                                      |  | ± 0.5  |         |                                                                                                               |        |  |  |  | MATERIAL NUMBER<br>CUSTOMER<br>GENERAL MARKET |          |          |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                                                                                               |  |        |         |                                                                                                               |        |  |  |  |                                               |          |          |  |  |
| THIRD ANGLE PROJECTION                               |                                                                                                                                               |  |        | DRAWING |                                                                                                               | SERIES |  |  |  |                                               |          |          |  |  |
|                                                      |                                                                                                                                               |  |        | A3-SIZE |                                                                                                               | 120341 |  |  |  |                                               |          |          |  |  |



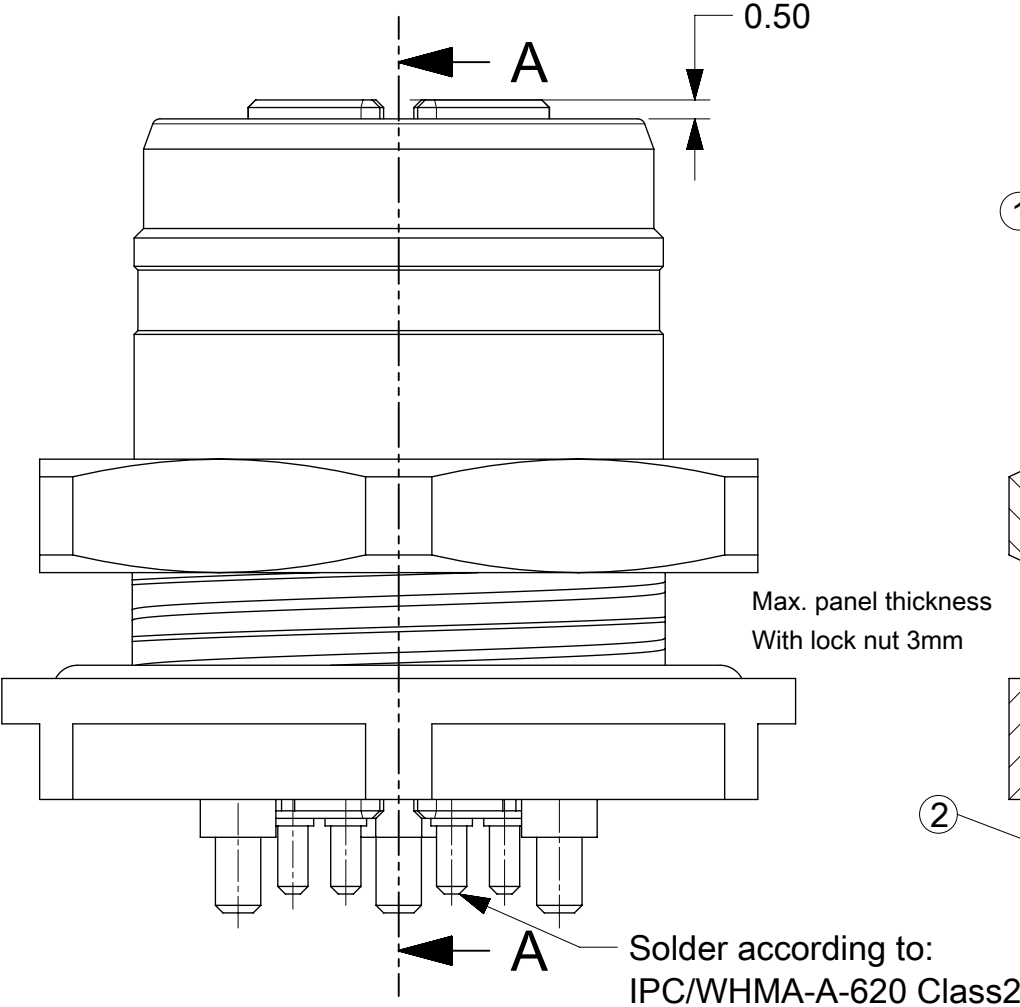
Cable color code and position  
on receptacle:  
1 white-orange  
2 orange  
3 white-green  
4 green  
5 white-brown  
6 brown  
7 white-blue  
8 blue

## PCB Pinout

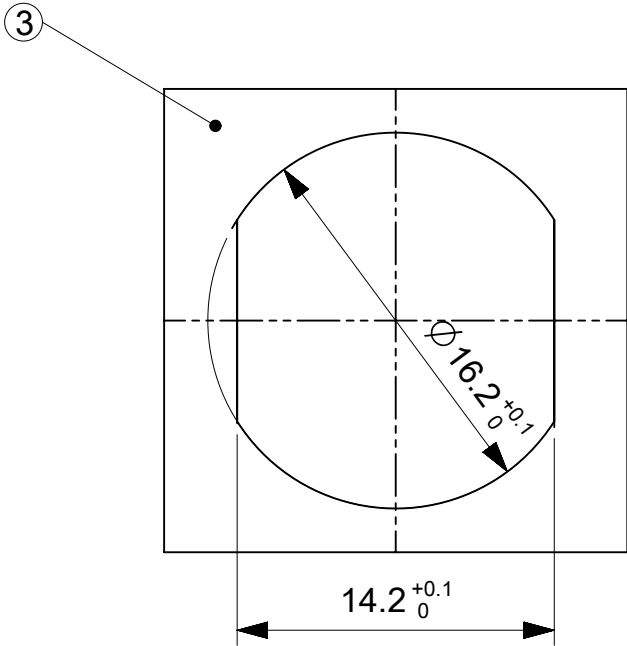
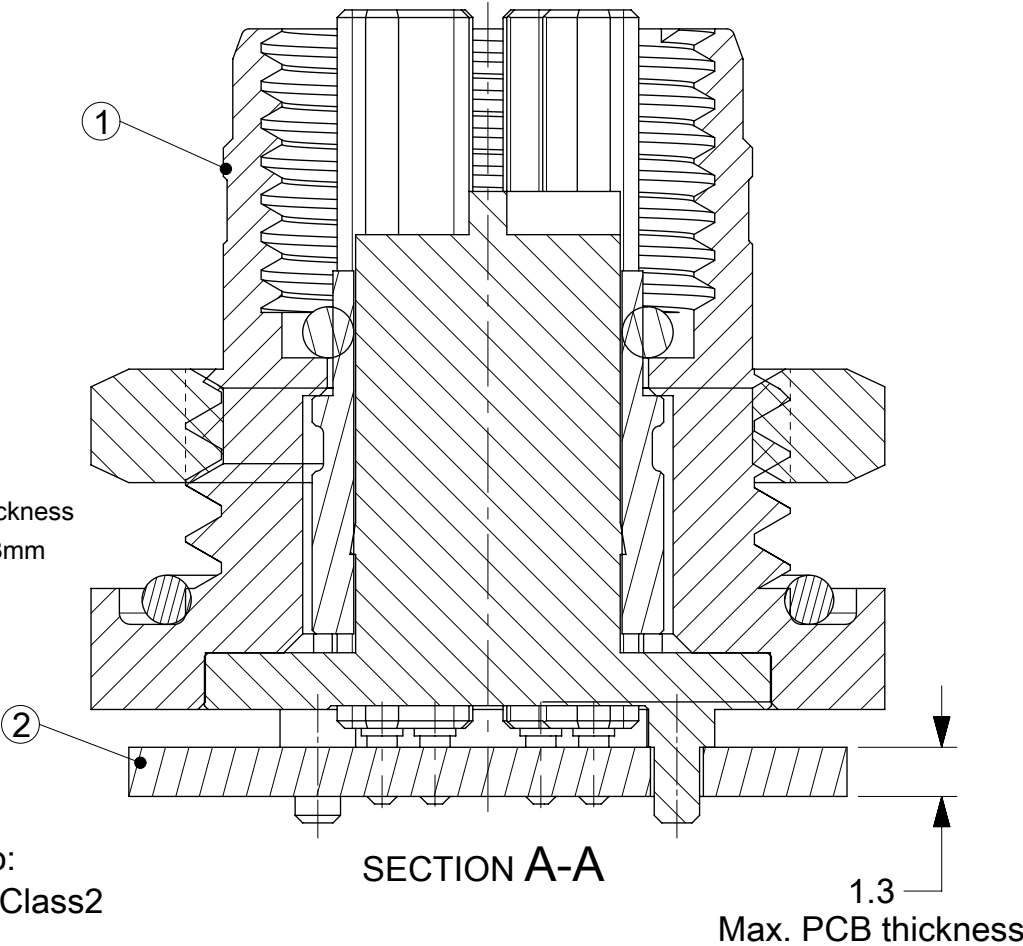
| FUNCTIONAL SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                        |                                                                                                                                                                                           |         |        |                          |  |                |  |              |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------------------------|--|----------------|--|--------------|---|
| <div><div><div><div><div><div></div></div></div><div><div></div></div></div><div><div></div></div><div><div></div></div></div><div><div></div></div><div><div></div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div><div><div></div></div><div><div></div></div></div><div><div></div></div><div><div></div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> | DIMENSION UNITS                                                                                                                               |       | SCALE                  | CURRENT REV DESC: REFERENCE TO "PANEL THCKNESS WITHOUT LOCKNUT" DELETED D4 REPLACE 1301830008 BY 1301830068;                                                                              |         |        | <div>molex</div>         |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mm                                                                                                                                            |       | 5:1                    | EC NO: 717616<br>DRWN: FDAFERNER 2022/08/12<br>CHK'D: THAERDT 2022/08/15<br>APPR: THAERDT 2022/08/15<br><br>INITIAL REVISION:<br>DRWN: LRAMAMURTHY 2016/10/06<br>APPR: RSILLER 2016/12/14 |         |        |                          |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |       |                        |                                                                                                                                                                                           |         |        | REC M12 8P 0C FE FM      |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANGULAR TOL ± 1.0 °                                                                                                                           |       |                        |                                                                                                                                                                                           |         |        |                          |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 PLACES                                                                                                                                      |       | ±                      |                                                                                                                                                                                           |         |        | PRODUCT CUSTOMER DRAWING |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3 PLACES                                                                                                                                      |       | ±                      |                                                                                                                                                                                           |         |        |                          |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 PLACES                                                                                                                                      |       | ± 0.05                 |                                                                                                                                                                                           |         |        |                          |  |                |  |              |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 PLACE                                                                                                                                       |       | ± 0.3                  |                                                                                                                                                                                           |         |        |                          |  |                |  |              |   |
| 0 PLACES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               | ± 0.5 |                        |                                                                                                                                                                                           |         |        |                          |  |                |  |              |   |
| DIVISIONAL SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |       | THIRD ANGLE PROJECTION |                                                                                                                                                                                           | DRAWING | SERIES | MATERIAL NUMBER          |  | CUSTOMER       |  | SHEET NUMBER |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |       |                        |                                                                                                                                                                                           | A3-SIZE | 120341 | 1203410150               |  | PSD            |  | 000          | C |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |       |                        |                                                                                                                                                                                           |         |        |                          |  | GENERAL MARKET |  | 2 OF 3       |   |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/08/15 | 05:47:44 |
|-----------------|----|--------------|------------|----------|

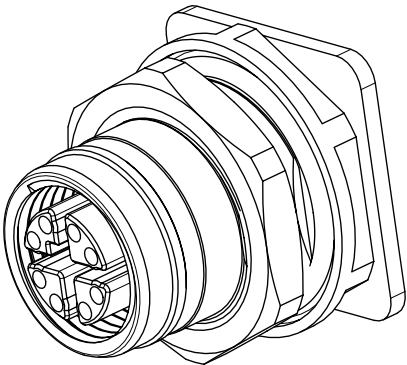
View with lock nut



View without lock nut



- Pos. Description
- 1 Receptacle Back Mount
  - 2 PCB
  - 3 Cutout



SCALE 2:1

- ASSEMBLY OF THE RECEPTACLE:
- 1. The receptacle (1) is soldered to PCB (2)(wave or reflow possible)  
The grounding can be over the ground pins of her receptacle and, if needed, over the midpoint of the shielding cross.
  - 2. The PCB with receptacles is mounted from the back side into the cutout(3) and fastened per screwing in or locknut.

|                                                                                       |                                                                                                                                               |         |         |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|--------|-----------------------------------------------------------------------------------------------------------------|-----------------|--|----------|--|----------|---------------------|----------|--|--|--|--|
| FUNCTIONAL SYMBOLS                                                                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |         |         |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | DIMENSION UNITS                                                                                                                               |         | SCALE   |        | CURRENT REV DESC: REFERENCE TO "PANEL THCKNESS WITHOUT LOCKNUT" DELETED D4<br>REPLACE 1301830008 BY 1301830068; |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | mm                                                                                                                                            |         | 5:1     |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |         |         |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | ANGULAR TOL                                                                                                                                   |         | ± 1.0 ° |        | molex                                                                                                           |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | 4 PLACES                                                                                                                                      |         | ±       |        |                                                                                                                 |                 |  |          |  |          | REC M12 8P 0C FE FM |          |  |  |  |  |
|                                                                                       | 3 PLACES                                                                                                                                      |         | ±       |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | 2 PLACES                                                                                                                                      |         | ± 0.05  |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | 1 PLACE                                                                                                                                       |         | ± 0.3   |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
|                                                                                       | 0 PLACES                                                                                                                                      |         | ± 0.5   |        | DIVISIONAL SYMBOLS                                                                                              |                 |  |          |  |          |                     |          |  |  |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                  |                                                                                                                                               |         |         |        |                                                                                                                 |                 |  |          |  |          |                     |          |  |  |  |  |
| THIRD ANGLE PROJECTION                                                                |                                                                                                                                               | DRAWING |         | SERIES |                                                                                                                 | DOCUMENT NUMBER |  | DOC TYPE |  | DOC PART |                     | REVISION |  |  |  |  |
|  |                                                                                                                                               | A3-SIZE |         | 120341 |                                                                                                                 | 1203410150      |  | PSD      |  | 000      |                     | C        |  |  |  |  |