

1

NOTES:

MARKED WITH TE PART NUMBER, CAGE CODE AND DATE CODE.

PART NUMBER EXAMPLE: D369 - MB 9 9 - N P 4

BASIC PART NUMBER

SHELL STYLE  
(MB = METALLIZED PANEL MOUNT  
RECEPTACLE 90°, 1.60mm PANEL)

SHELL SIZE

CONTACT QUANTITY

(3=3 x #22, 6=6 x #22, 9=9 x #22)

CONTACT CONFIGURATION  
(4= 90° GOLD PLATED PCB TAIL)  
(5= 90° GOLD PLATED, TIN DIPPED PCB TAIL)  
CONTACT TYPE (P=PIN, S=SKT)  
SHELL KEYING

**PRELIMINARY DRAWING**  
FOR REVIEW PURPOSES. CONSULT ENGINEERING  
BEFORE USE.

2

PERFORMANCE:

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| TEMPERATURE RANGE                           | -55°C TO +175°C                     |
| DIELECTRIC WITHSTAND VOLTAGE (AT SEA LEVEL) | 1500VRMS <2mA LEAKAGE               |
| DURABILITY                                  | 500 MATING CYCLES MIN.              |
| INSULATION RESISTANCE                       | ≥5000 MΩ INITIAL                    |
| IP RATING                                   | IP67                                |
| SEALING                                     | RTCA DO160 - CATEGORY A4 (15,000ft) |
| HUMIDITY                                    | RTCA DO160 - CATEGORY A             |

3.

MATERIALS:

| COMPONENT               | MATERIAL<br>(FINISH: CLEAN IN ALL CASES) | FINISH                   |
|-------------------------|------------------------------------------|--------------------------|
| SEALS                   | SILICONE / FLUOROSILICONE BLEND RUBBER   | N/A                      |
| INSERT PARTS/PANEL CLIP | THERMOPLASTIC                            | N/A                      |
| SHELL BODY              | THERMOPLASTIC                            | ELECTOLESS NICKEL PLATED |
| PANEL GASKET            | FLUOROSILICONE - ALUMINIUM FILLER        | N/A                      |
| CONTACTS                | COPPER ALLOY, SEE NOTE 1 FOR FINISH      |                          |

NICKEL PLATED FINISH MAY VARY IN COSMETIC APPEARANCE. PLATING MAY BE DULL IN APPEARANCE WITH A ROUGH SURFACE, OR SHINY IN APPEARANCE WITH A SMOOTH SURFACE. THIS IN NO WAY AFFECTS THE FORM, FIT OR FUNCTION OF THE PRODUCT, OR THE ENVIRONMENTAL PERFORMANCE OF THE PLATED FINISH. IT SHOULD BE CONSIDERED A VISUAL VARIATION ONLY.

4.

THESE CONNECTORS ARE ROHS COMPLIANT

5.

MAXIMUM WEIGHTS:

3 WAY - 6.9g (PIN INSERT), 6.9g (SOCKET INSERT).  
6 WAY - 7.7g (PIN INSERT), 7.7g (SOCKET INSERT).  
9 WAY - 8.5g (PIN INSERT), 8.5g (SOCKET INSERT).

6

SHELL KEYING:

| SHELL KEYING (ALL SIZES) |            |
|--------------------------|------------|
| ORIENTATION              | COLOUR     |
| N                        | BLACK      |
| A                        | DARK RED   |
| B                        | DARK BLUE  |
| C                        | DARK GREEN |
| D                        | YELLOW     |

7

DIMENSIONS:

| SHELL SIZE | DIM 'A' MAX. | DIM 'B' MAX. |
|------------|--------------|--------------|
| 3          | 9.23         | 26.8         |
| 6          | 11.77        | 29.4         |
| 9          | 14.31        | 32.0         |

8.

9 WAY CONNECTOR SHOWN IN ALL VIEWS ON SHEET 1 FOR ILLUSTRATION PURPOSES.

9.

RECOMMENDED PANEL THICKNESS LISTED IN TABLE BELOW FOR REFERENCE ONLY. REFER TO INSTRUCTION SHEET 408-32194 FOR PANEL CUTOUT DIMENSIONS.

| SHELL SIZE | GASKET CONFIGURATION | NUMBER OF MARKS | RECOMMENDED PANEL THICKNESS | GASKET PART NUMBER |
|------------|----------------------|-----------------|-----------------------------|--------------------|
| 3          | A                    | 2               | 1.27                        | NOT TOOLED         |
|            | B                    | 3               | 1.60                        | 612154-3-B         |
|            | C                    | 4               | 2.03                        | NOT TOOLED         |
| 6          | A                    | 2               | 1.27                        | 612154-6-A         |
|            | B                    | 3               | 1.60                        | NOT TOOLED         |
|            | C                    | 4               | 2.03                        | 612154-6-C         |
| 9          | A                    | 2               | 1.27                        | NOT TOOLED         |
|            | B                    | 3               | 1.60                        | 612154-9-B         |
|            | C                    | 4               | 2.03                        | NOT TOOLED         |

PANEL GASKET

CONTACT TAIL ORGANISER

KEYING ORIENTATION COLOUR BAND

IF IN DOUBT, ASK

PCB

PCB LOCATION DOWELS

ELECTRICAL CONTACT SOLDER POINTS

PANEL

REAR SEAL

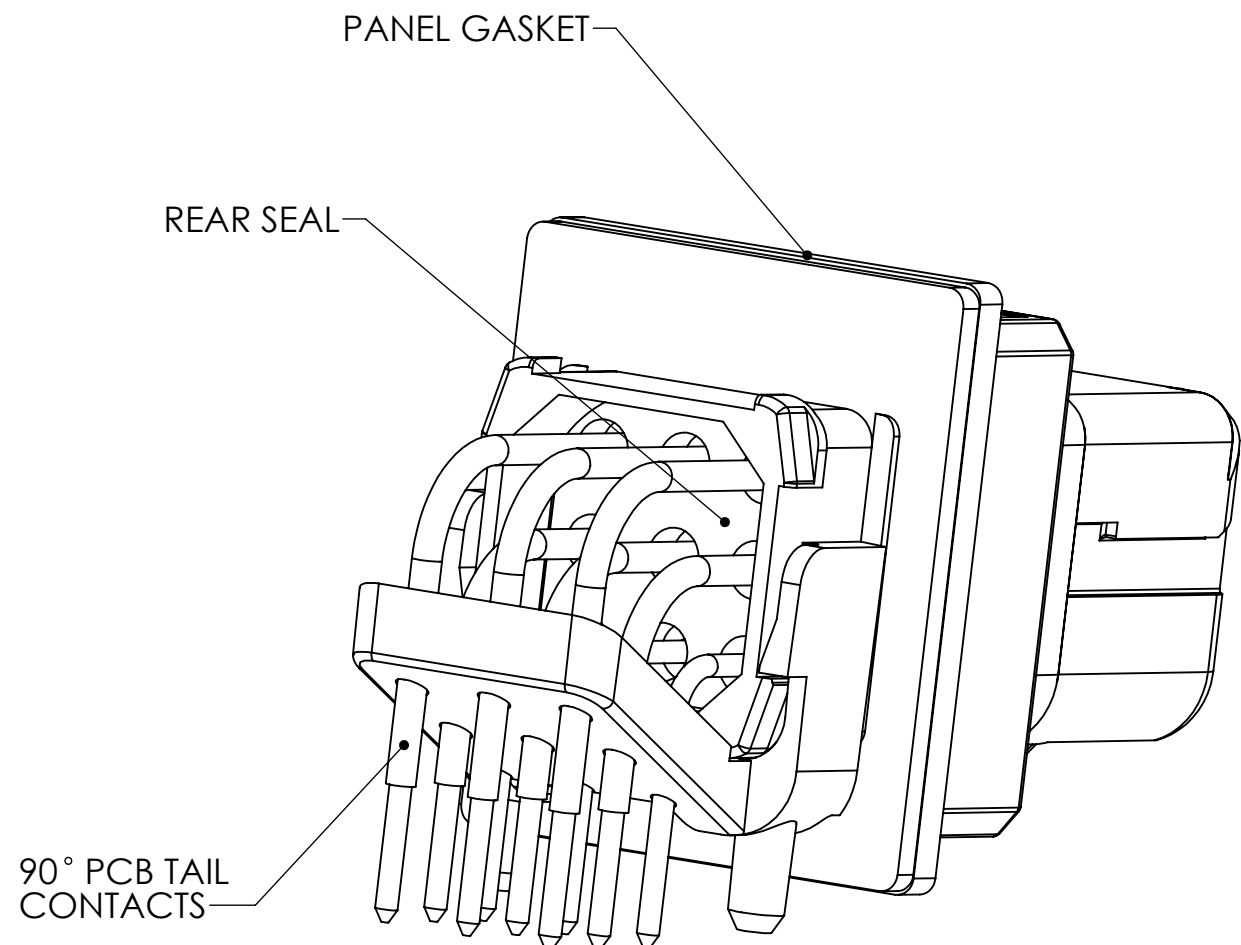
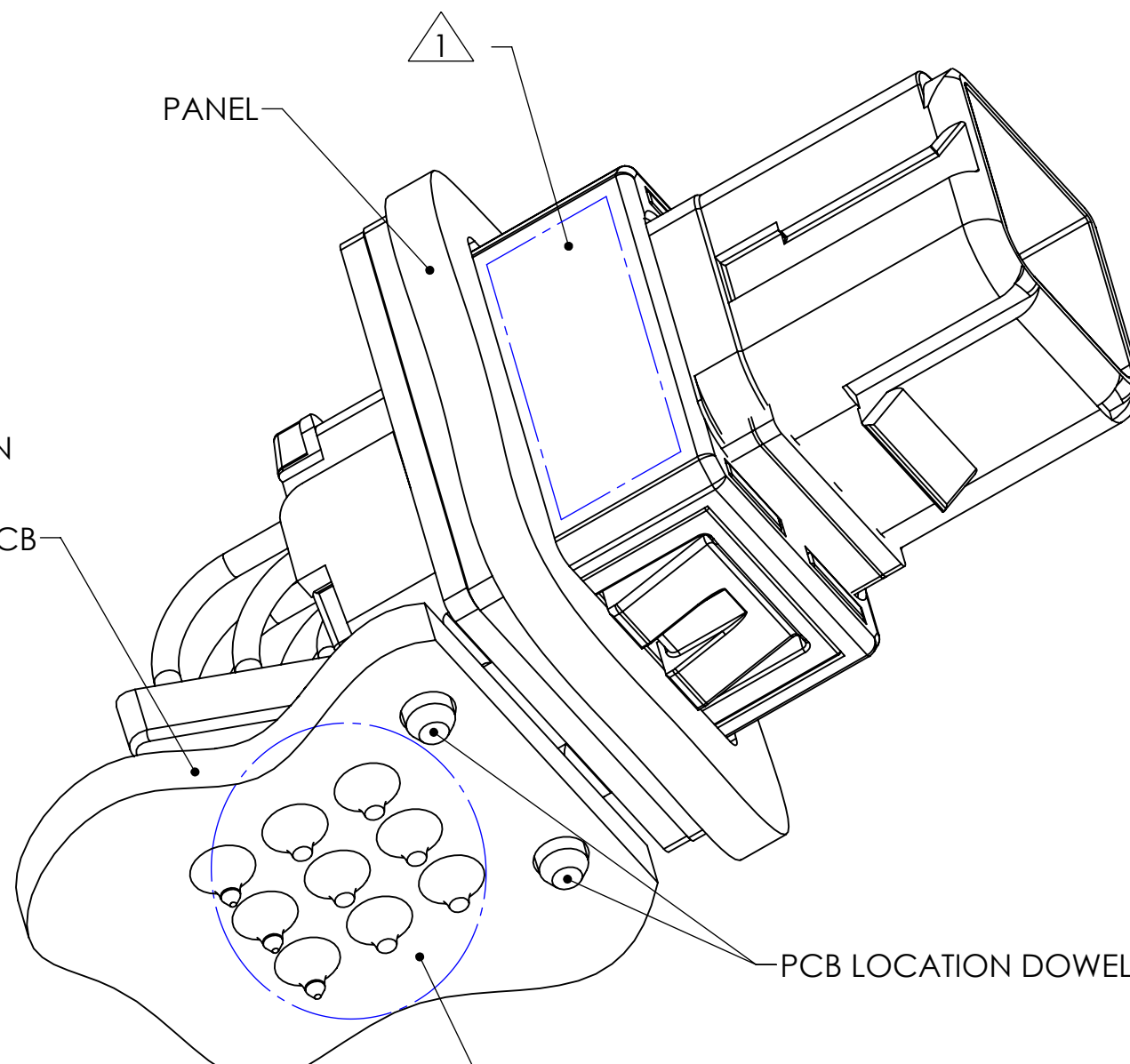
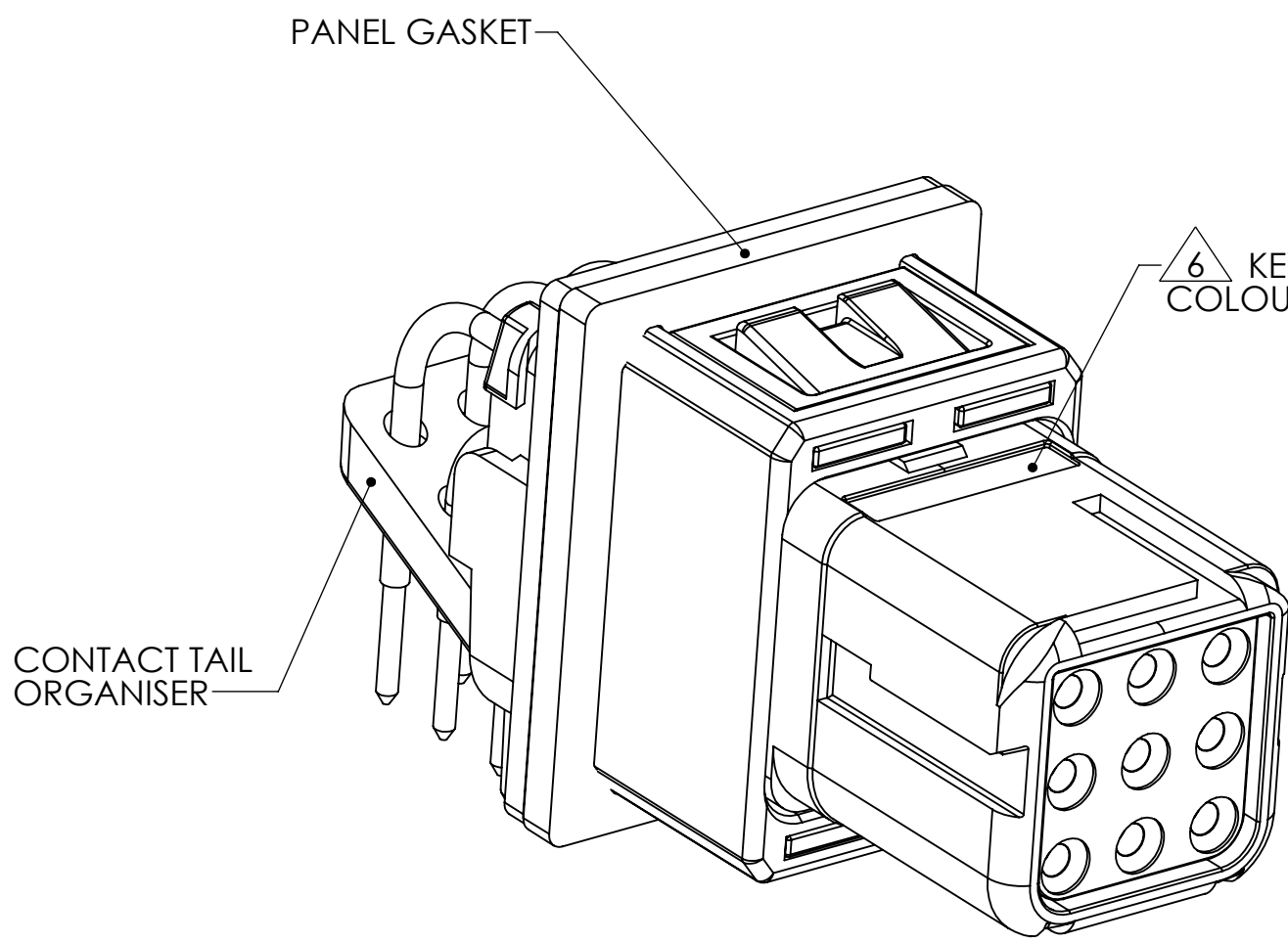
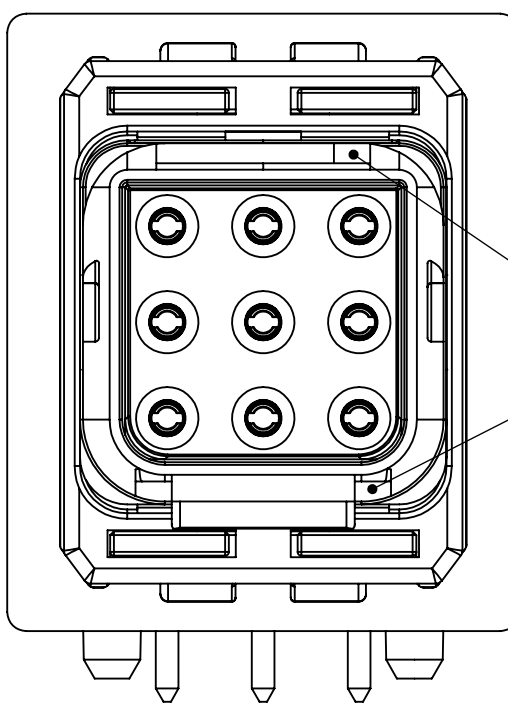
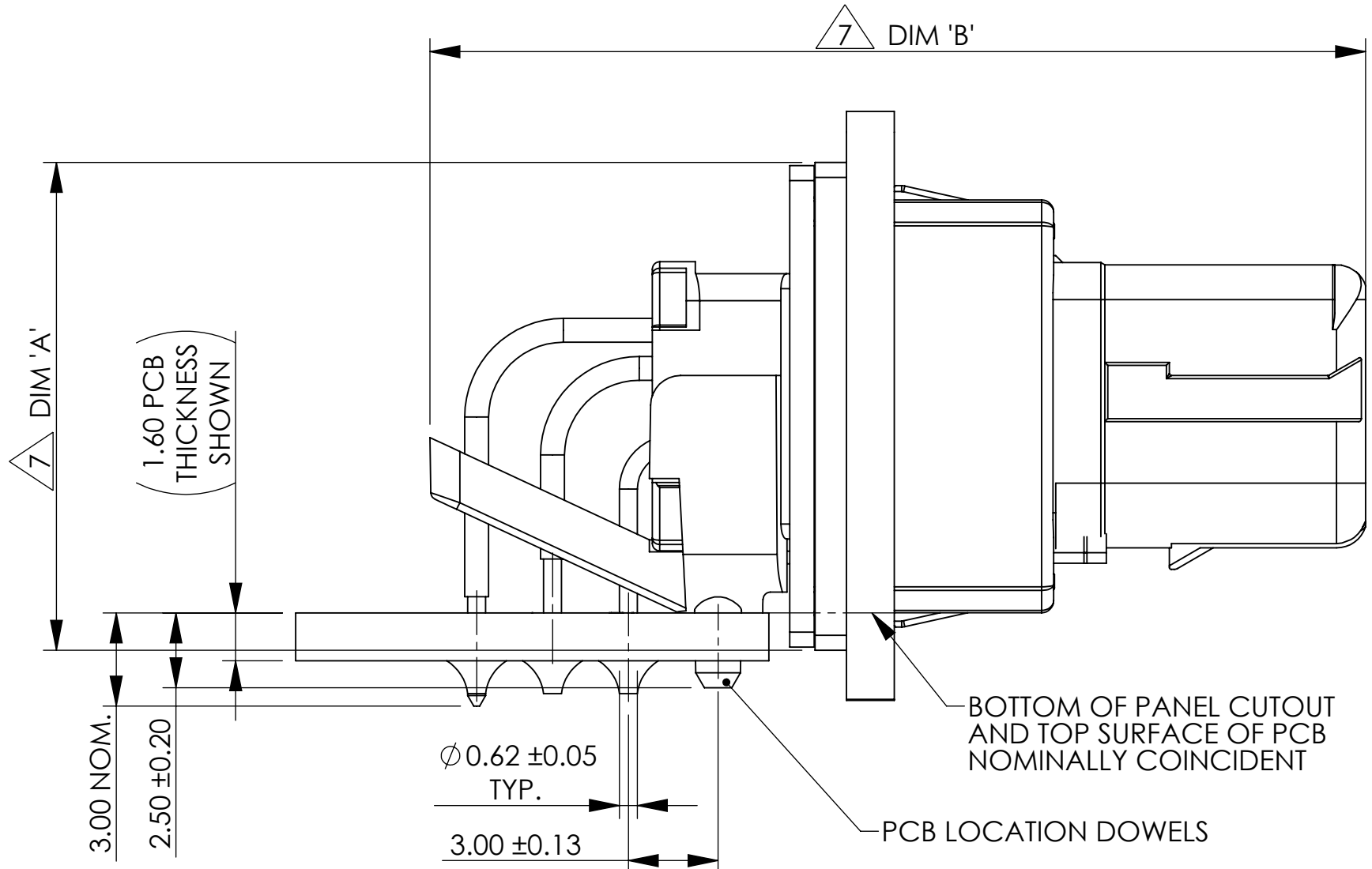
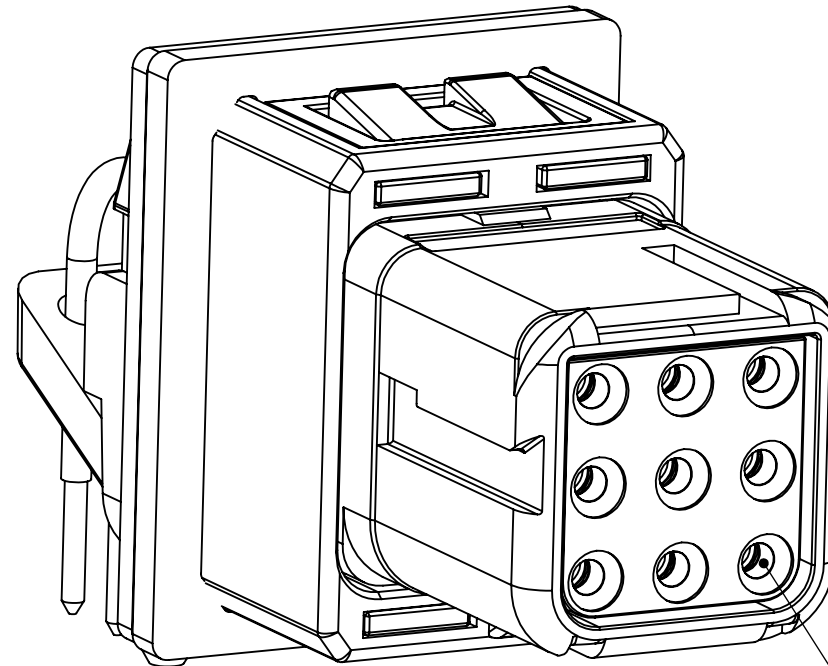
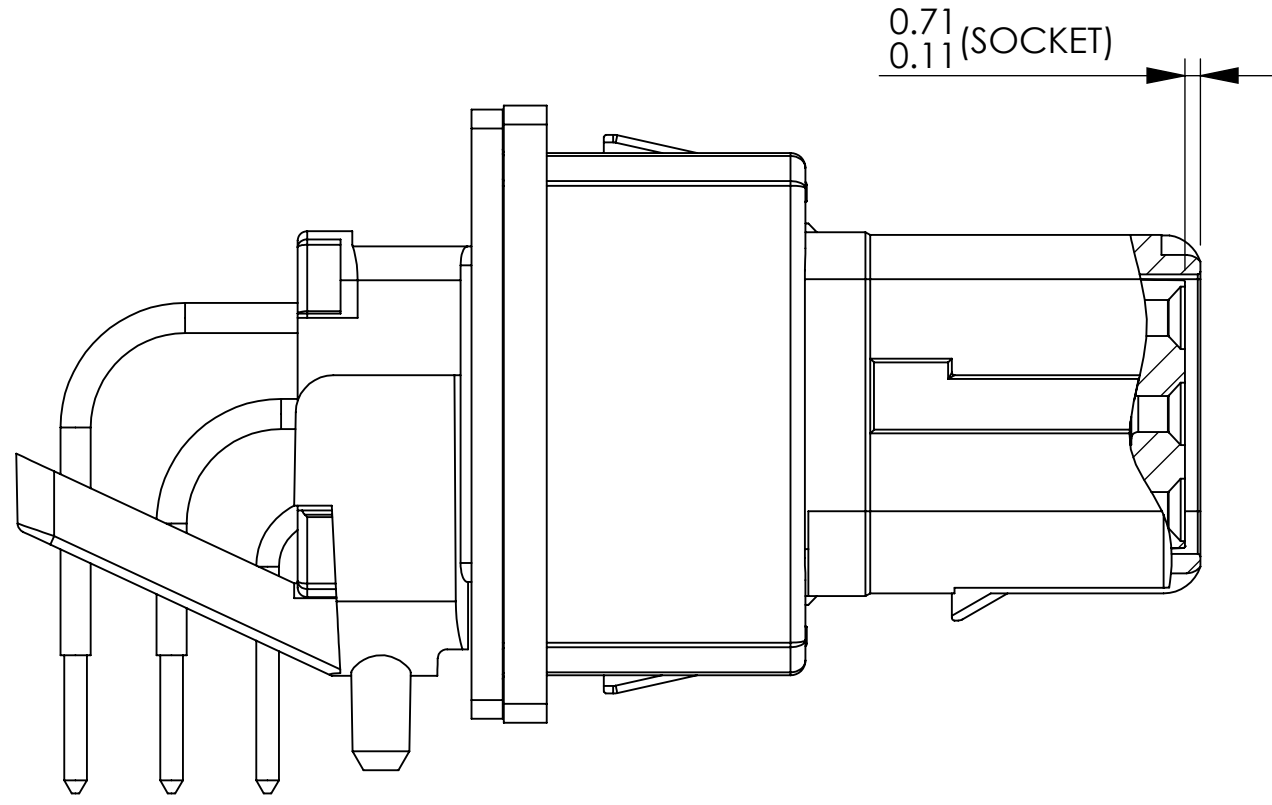
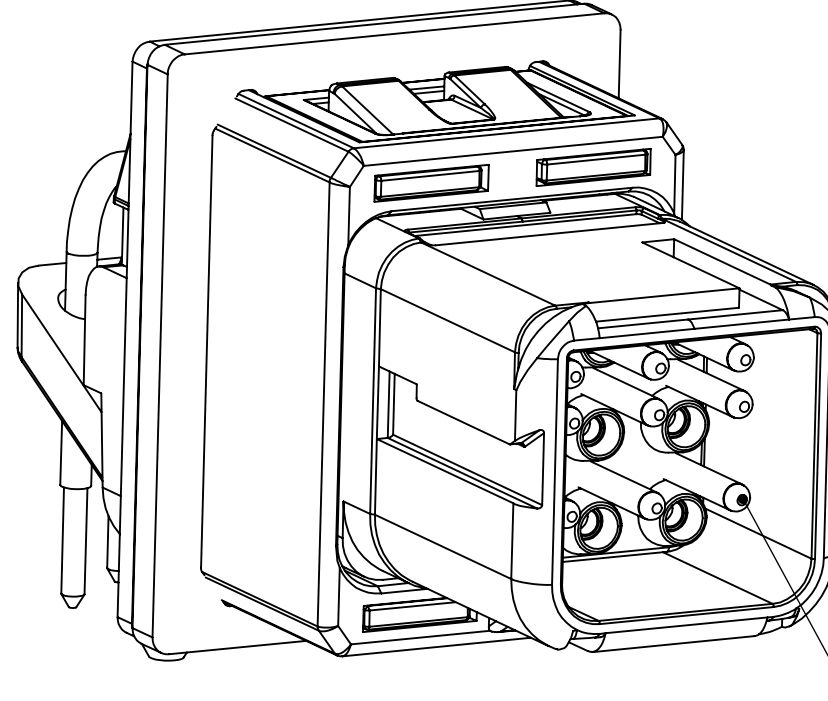
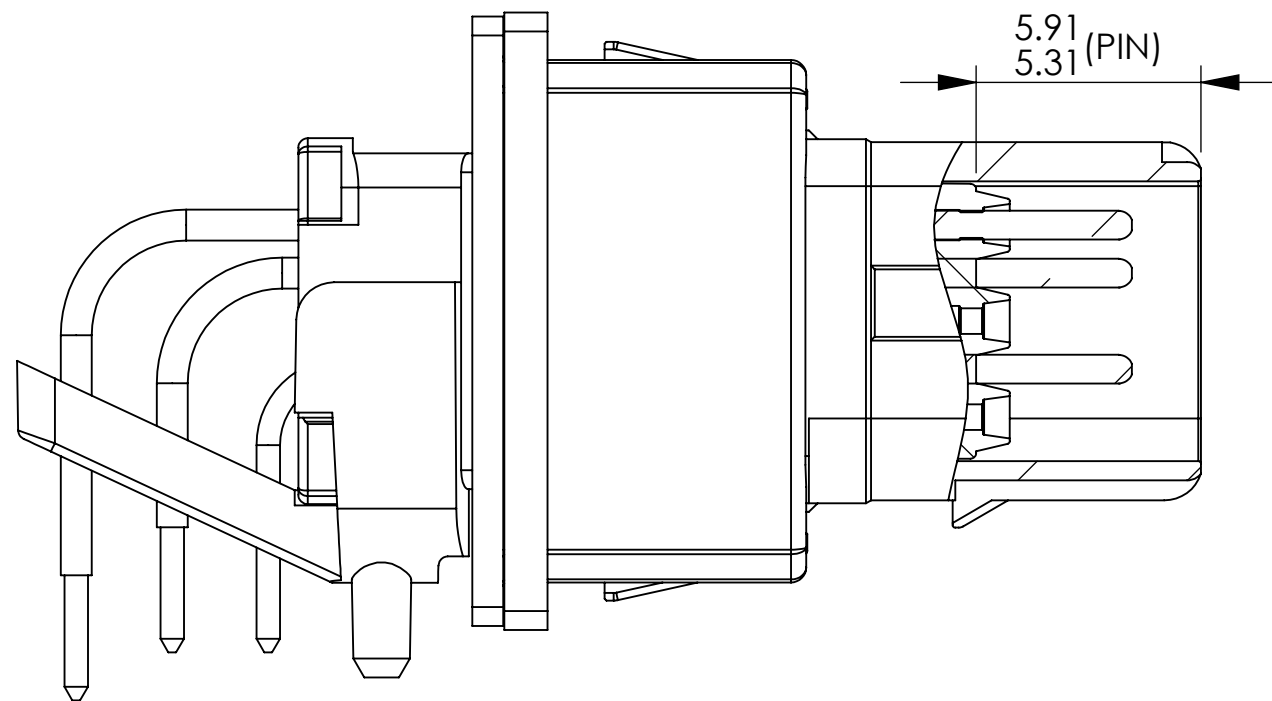
90° PCB TAIL CONTACTS

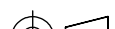
PANEL GASKET

ORIENTATION KEYWAYS ('N' SHOWN)

PIN/MALE CONTACTS

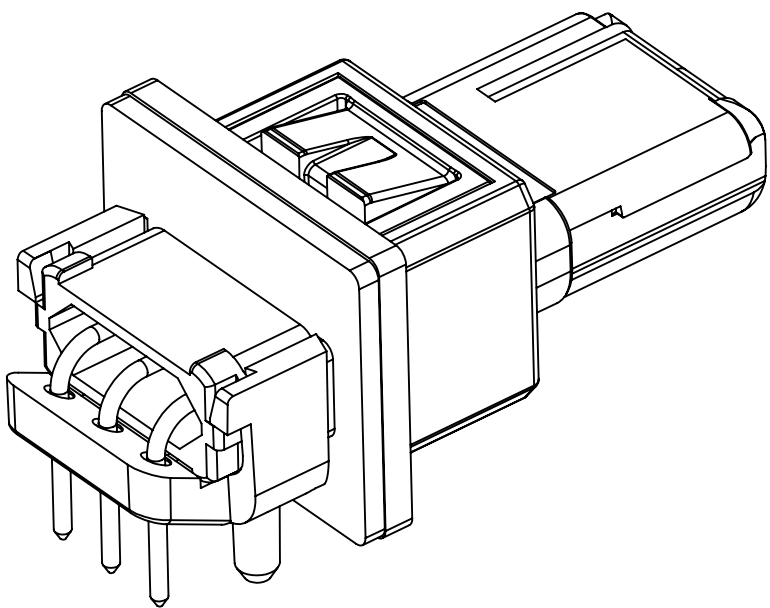
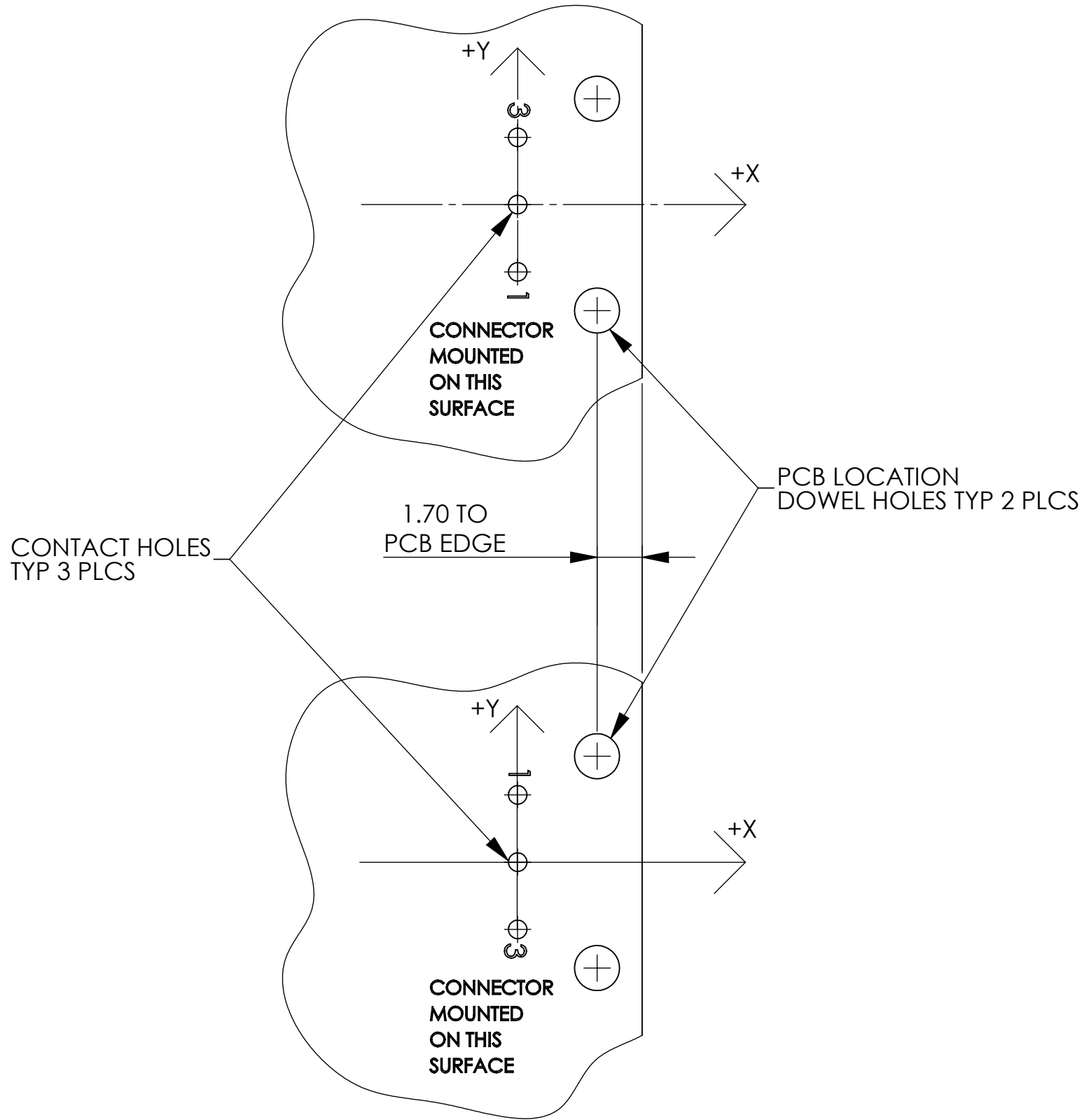
SOCKET/FEMALE CONTACTS



|                                                                                                              |  |                                                           |                      |                                      |  |                                                                                       |                     |
|--------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|----------------------|--------------------------------------|--|---------------------------------------------------------------------------------------|---------------------|
| BS8888                                                                                                       |  | MATERIAL:<br><b>SEE NOTES</b>                             |                      | FINISH:                              |  |  |                     |
| THIRD ANGLE PROJECTION  |  |                                                           |                      |                                      |  | DEUTSCH                                                                               |                     |
| UNLESS OTHERWISE STATED:<br>DIMENSIONS: mm [INCHES]                                                          |  | TITLE:<br><b>D369 SHIELDED PANEL MOUNT PCB RECEPTACLE</b> |                      |                                      |  | TE CONNECTIVITY UK LTD.,<br>ST. LEONARDS-ON-SEA,<br>TN38 9RF, UK.                     |                     |
| IF IN DOUBT, ASK                                                                                             |  | SIZE:<br><b>A1</b>                                        | SCALE:<br><b>5:1</b> | DRAWING NUMBER:<br><b>612849-ENV</b> |  | SHEET:<br><b>1 OF 2</b>                                                               | ISSUE:<br><b>01</b> |

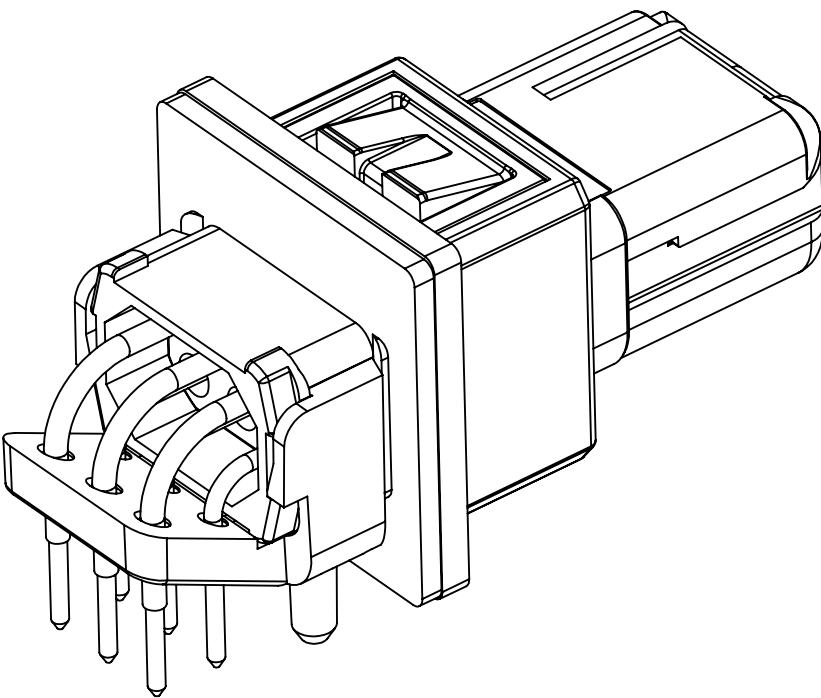
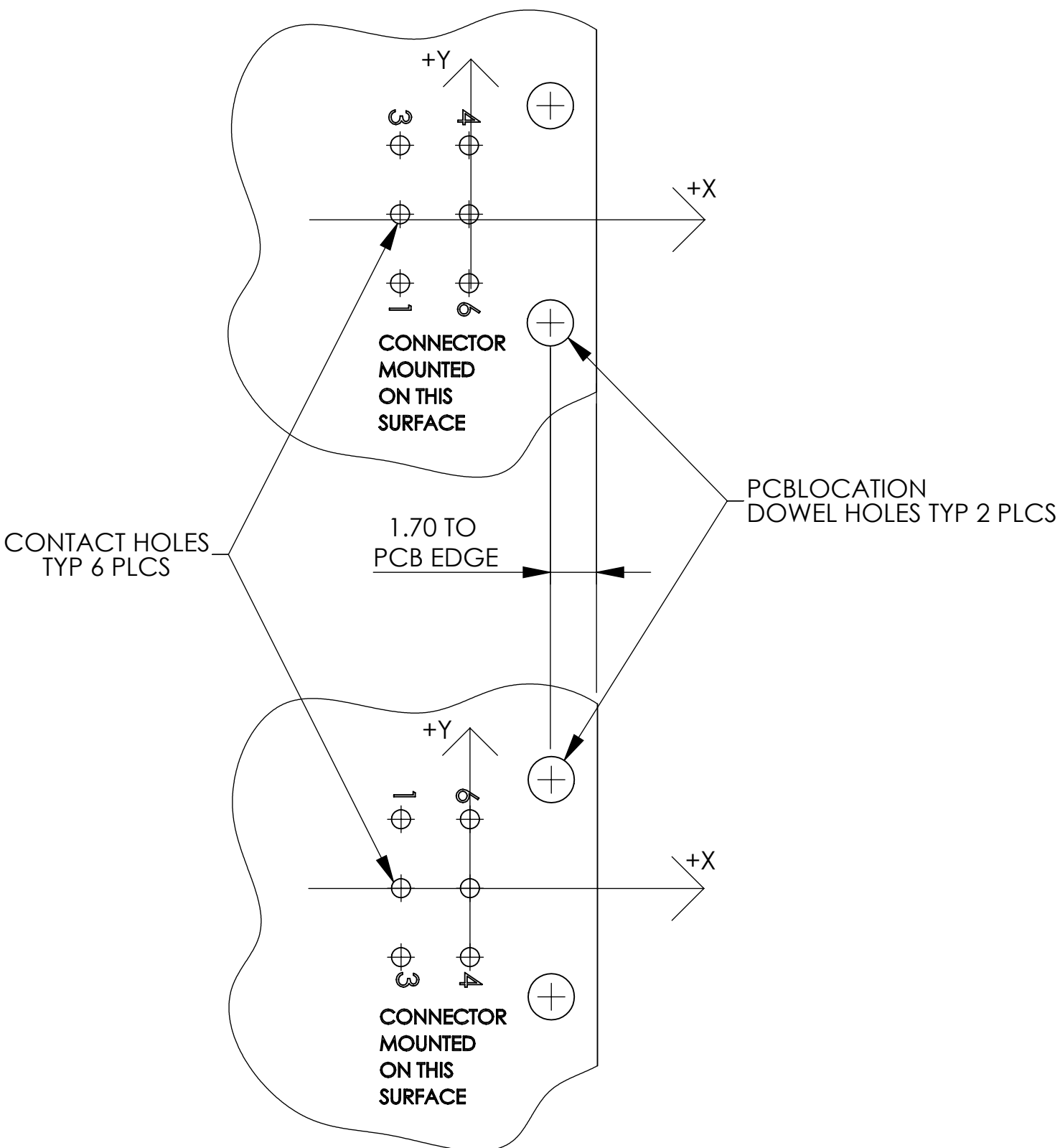
3 WAY CONNECTOR

| HOLE TABLE         |          |                   |           |           |           |                                                                                                   |
|--------------------|----------|-------------------|-----------|-----------|-----------|---------------------------------------------------------------------------------------------------|
| HOLE TYPE          |          | CO-ORDINATES (mm) |           |           |           | HOLE POSITION TOLERANCE                                                                           |
|                    |          | PIN               |           | SOCKET    |           |                                                                                                   |
|                    |          | X AXIS            | Y AXIS    | X AXIS    | Y AXIS    |                                                                                                   |
| PCB LOCATION HOLES |          | +3.00 REF         | +4.00 REF | +3.00 REF | +4.00 REF | Ø 0.10                                                                                            |
|                    |          | +3.00 REF         | -4.00 REF | +3.00 REF | -4.00 REF |                                                                                                   |
| CONTACT TAIL HOLES | LOCATION | -                 | -         | -         | -         | HOLE DIAMETERS AND TOLERANCES AND HOLE POSITION TOLERANCES TO SUIT CUSTOMER PCB DESIGN GUIDELINES |
|                    | 1        | 0                 | -2.54     | 0         | +2.54     |                                                                                                   |
|                    | 2        | 0                 | 0         | 0         | 0         |                                                                                                   |
|                    | 3        | 0                 | +2.54     | 0         | -2.54     |                                                                                                   |



6 WAY CONNECTOR

| HOLE TABLE            |          |                   |           |           |           |                                                                                                               |
|-----------------------|----------|-------------------|-----------|-----------|-----------|---------------------------------------------------------------------------------------------------------------|
| HOLE TYPE             |          | CO-ORDINATES (mm) |           |           |           | HOLE POSITION TOLERANCE                                                                                       |
|                       |          | PIN               |           | SOCKET    |           |                                                                                                               |
|                       |          | 'X'               | 'Y'       | 'X'       | 'Y'       |                                                                                                               |
| PCB LOCATION HOLES    |          | +3.00 REF         | +4.00 REF | +3.00 REF | +4.00 REF | Ø 0.10                                                                                                        |
|                       |          | +3.00 REF         | -4.00 REF | +3.00 REF | -4.00 REF |                                                                                                               |
| CONTACT<br>TAIL HOLES | LOCATION | -                 | -         | -         | -         | HOLE DIAMETERS AND<br>TOLERANCES AND HOLE<br>POSITION TOLERANCES TO<br>SUIT CUSTOMER PCB<br>DESIGN GUIDELINES |
|                       | 1        | -2.54             | -2.54     | -2.54     | +2.54     |                                                                                                               |
|                       | 2        | -2.54             | 0         | -2.54     | 0         |                                                                                                               |
|                       | 3        | -2.54             | +2.54     | -2.54     | -2.54     |                                                                                                               |
|                       | 4        | 0                 | +2.54     | 0         | -2.54     |                                                                                                               |
|                       | 5        | 0                 | 0         | 0         | 0         |                                                                                                               |
|                       | 6        | 0                 | -2.54     | 0         | +2.54     |                                                                                                               |



9 WAY CONNECTOR

| HOLE TABLE         |          |                   |           |           |           |                                                                                                   |
|--------------------|----------|-------------------|-----------|-----------|-----------|---------------------------------------------------------------------------------------------------|
| HOLE TYPE          |          | CO-ORDINATES (mm) |           |           |           | HOLE POSITION TOLERANCE                                                                           |
|                    |          | PIN               |           | SOCKET    |           |                                                                                                   |
|                    |          | 'X'               | 'Y'       | 'X'       | 'Y'       |                                                                                                   |
| PCB LOCATION HOLES |          | +3.00 REF         | +4.00 REF | +3.00 REF | +4.00 REF | Ø 0.10                                                                                            |
|                    |          | +3.00 REF         | -4.00 REF | +3.00 REF | -4.00 REF |                                                                                                   |
| CONTACT TAIL HOLES | LOCATION | -                 | -         | -         | -         | HOLE DIAMETERS AND TOLERANCES AND HOLE POSITION TOLERANCES TO SUIT CUSTOMER PCB DESIGN GUIDELINES |
|                    | 1        | -5.08             | -2.54     | -5.08     | +2.54     |                                                                                                   |
|                    | 2        | -5.08             | 0         | -5.08     | 0         |                                                                                                   |
|                    | 3        | -5.08             | +2.54     | -5.08     | -2.54     |                                                                                                   |
|                    | 4        | -2.54             | +2.54     | -2.54     | -2.54     |                                                                                                   |
|                    | 5        | -2.54             | 0         | -2.54     | 0         |                                                                                                   |
|                    | 6        | -2.54             | -2.54     | -2.54     | +2.54     |                                                                                                   |
|                    | 7        | 0                 | -2.54     | 0         | +2.54     |                                                                                                   |
|                    | 8        | 0                 | 0         | 0         | 0         |                                                                                                   |
|                    | 9        | 0                 | +2.54     | 0         | -2.54     |                                                                                                   |

