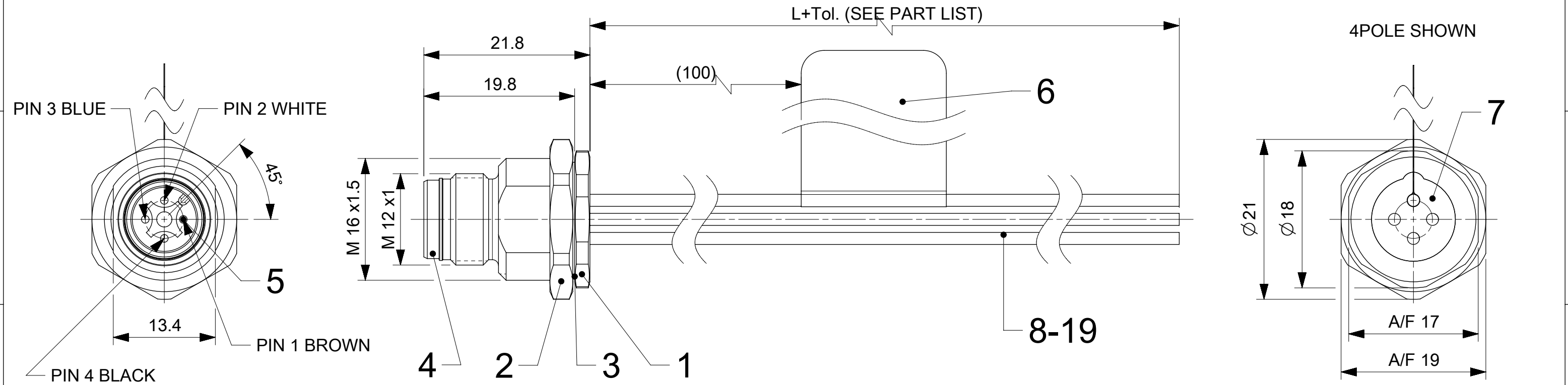
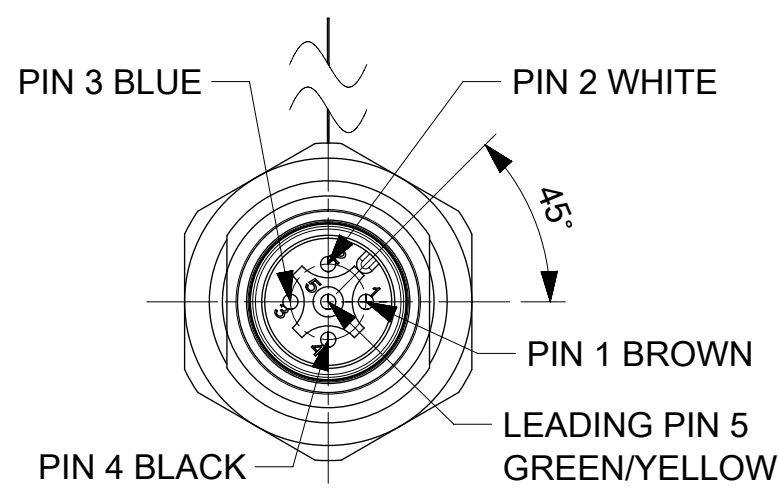


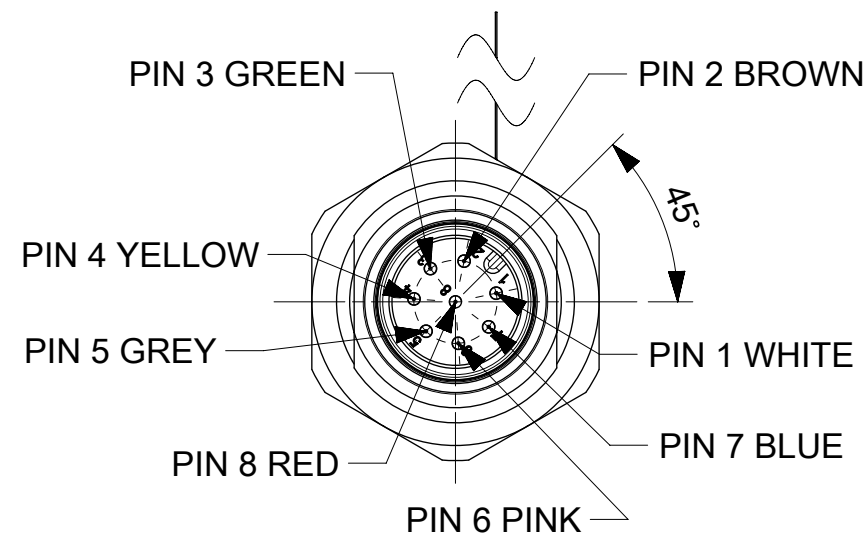
M12 4 POLE AC MALE



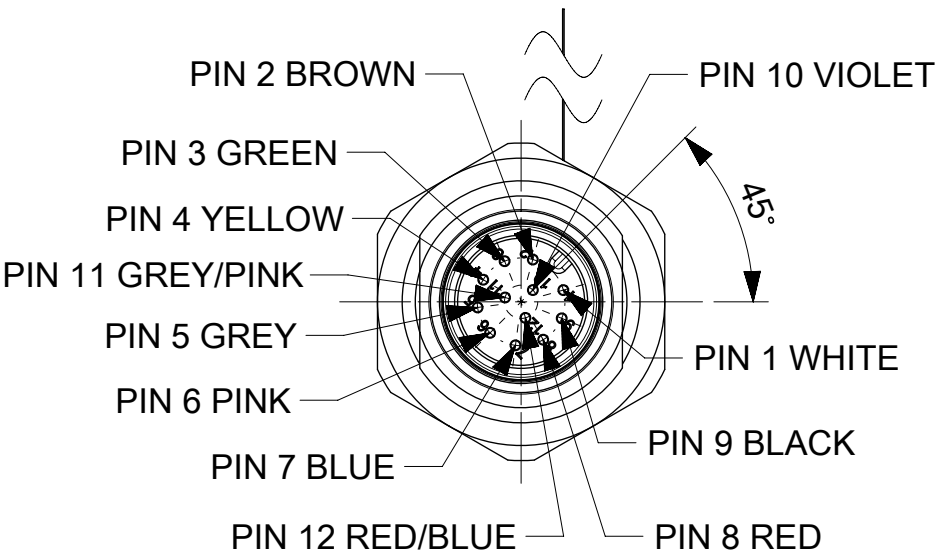
M12 5 POLE AC MALE



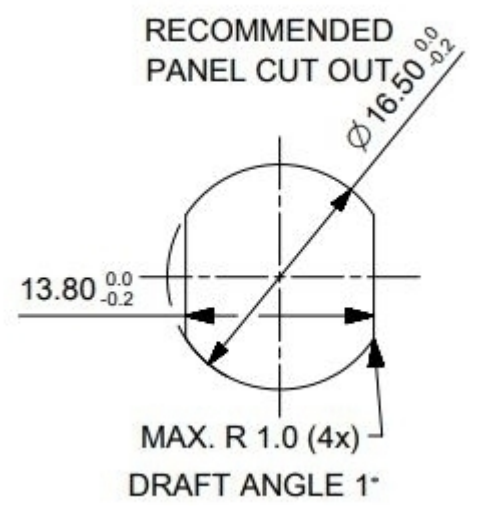
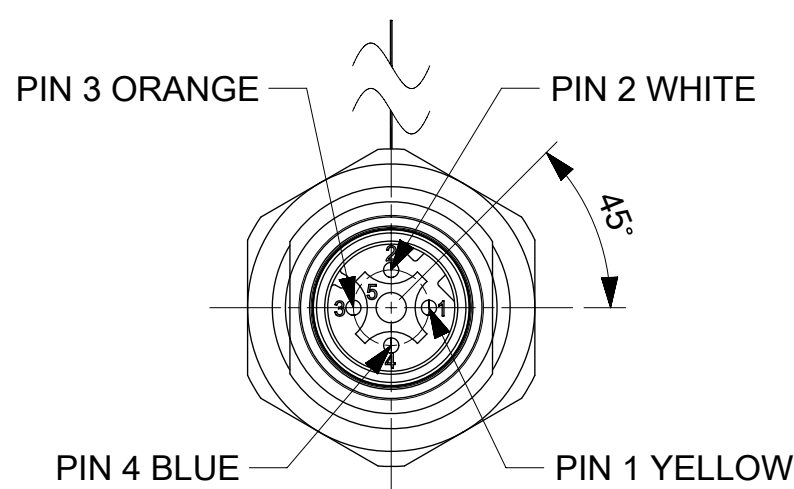
M12 8 POLE AC MALE



M12 12 POLE AC MALE



M12 4 POLE DC MALE



|                                                                                                                                               |                                                         |  |        |  |                                                                               |  |         |                                                                              |               |                |          |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--|--------|--|-------------------------------------------------------------------------------|--|---------|------------------------------------------------------------------------------|---------------|----------------|----------|-----------------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                         |  |        |  |                                                                               |  |         |                                                                              |               |                |          |                 |
| FUNCTIONAL SYMBOLS                                                                                                                            | DIMENSION UNITS                                         |  | SCALE  |  | CURRENT REV DESC: CHANGED MIN. TEMP. IN TABLE                                 |  |         | <div>molex</div> <div>REC U12 XP XC MA PVC XM M16 BM WIR SE<br/>BRA AU</div> |               |                |          |                 |
|                                                                                                                                               | mm                                                      |  | 2:1    |  |                                                                               |  |         |                                                                              |               |                |          |                 |
|                                                                                                                                               | GENERAL TOLERANCES (UNLESS SPECIFIED)                   |  |        |  |                                                                               |  |         |                                                                              |               |                |          |                 |
|                                                                                                                                               | ANGULAR TOL ± 1.0°                                      |  |        |  |                                                                               |  |         |                                                                              |               |                |          |                 |
|                                                                                                                                               | 4 PLACES                                                |  | ±      |  |                                                                               |  |         |                                                                              |               |                |          |                 |
|                                                                                                                                               | 3 PLACES                                                |  | ±      |  |                                                                               |  |         |                                                                              |               |                |          |                 |
|                                                                                                                                               | 2 PLACES                                                |  | ± 0.05 |  |                                                                               |  |         |                                                                              |               |                |          |                 |
| DIVISIONAL SYMBOLS                                                                                                                            | 1 PLACE                                                 |  | ± 0.3  |  | INITIAL REVISION:<br>DRWN: JELIZAINCIN 2021/09/08<br>APPR: RSILLER 2022/07/14 |  |         | DOCUMENT NUMBER                                                              |               | DOC TYPE       | DOC PART | REVISION        |
|                                                                                                                                               | 0 PLACES                                                |  | ± 0.5  |  |                                                                               |  |         | 1204040046                                                                   |               | PSD            | 000      | A2              |
|                                                                                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |  |        |  |                                                                               |  |         | THIRD ANGLE PROJECTION                                                       |               | DRAWING        | SERIES   | MATERIAL NUMBER |
|                                                                                                                                               |                                                         |  |        |  |                                                                               |  | A3-SIZE | 120404                                                                       | SEE PART LIST | GENERAL MARKET | 1 OF 3   |                 |

|                                                                   |   |                                                          |                  |              |              |
|-------------------------------------------------------------------|---|----------------------------------------------------------|------------------|--------------|--------------|
| 10                                                                | 9 | 8                                                        | 7                | 6            | 5            |
| POLES                                                             |   | 4 POLE                                                   | 5 POLE           | 8 POLE       | 12 POLE      |
| VOLTAGE RATING                                                    |   | 250V                                                     | 60V              | 30V          | 30V          |
| CODING                                                            |   | A - Code                                                 | A - Code         | A - Code     | A - Code     |
| AMPERE RATING                                                     |   | 4A                                                       | 4A               | 2A           | 1.5A         |
| PROTECTION CLASS<br>CONNECTOR INTERFACE<br>AND SHELL TO ENCLOSURE |   | IP 67/69K (in mated condition / when properly installed) |                  |              |              |
| OPERATING TEMP.                                                   |   | -40°C / +90°C                                            |                  |              |              |
| UL/CSA CERTIFICATION                                              |   | CSA FILE NO. LR6837, C'CSA'US MARK                       |                  |              | Pending      |
| WIRE LEAD                                                         |   | 0.34 mm² PVC                                             | 0.34/0.5 mm² PVC | 0.25 mm² PVC | 0.14 mm² PVC |
| PIN DIAMETER                                                      |   | 1.0 mm                                                   | 1.0 mm           | 0.8 mm       | 0.6 mm       |

PART LIST 4P AC

|            |                    |                                          |        |           |
|------------|--------------------|------------------------------------------|--------|-----------|
| MOLEX P/N  | ENGINEERING NUMBER | DESCRIPTION                              | L [mm] | TOL. [mm] |
| 1204040046 | YR4U46E03C300      | REC U12 4P AC MA PVC 0.3M M16 BM WIR BRA | 300    | +40       |
| 1204040050 | YR4U46E03C500      | REC U12 4P AC MA PVC 0.5M M16 BM WIR BRA | 500    | +40       |

PART LIST 5P AC

|            |                    |                                          |        |           |
|------------|--------------------|------------------------------------------|--------|-----------|
| MOLEX P/N  | ENGINEERING NUMBER | DESCRIPTION                              | L [mm] | TOL. [mm] |
| 1204040047 | YR5U46E03C300      | REC U12 5P AC MA PVC 0.3M M16 BM WIR BRA | 300    | +40       |
| 1204040051 | YR5U46E03C500      | REC U12 5P AC MA PVC 0.5M M16 BM WIR BRA | 500    | +40       |

PART LIST 8P AC

|            |                    |                                          |        |           |
|------------|--------------------|------------------------------------------|--------|-----------|
| MOLEX P/N  | ENGINEERING NUMBER | DESCRIPTION                              | L [mm] | TOL. [mm] |
| 1204040048 | YR8U46E02C300      | REC U12 8P AC MA PVC 0.3M M16 BM WIR BRA | 300    | +40       |
| 1204040052 | YR8U46E02C500      | REC U12 8P AC MA PVC 0.5M M16 BM WIR BRA | 500    | +40       |

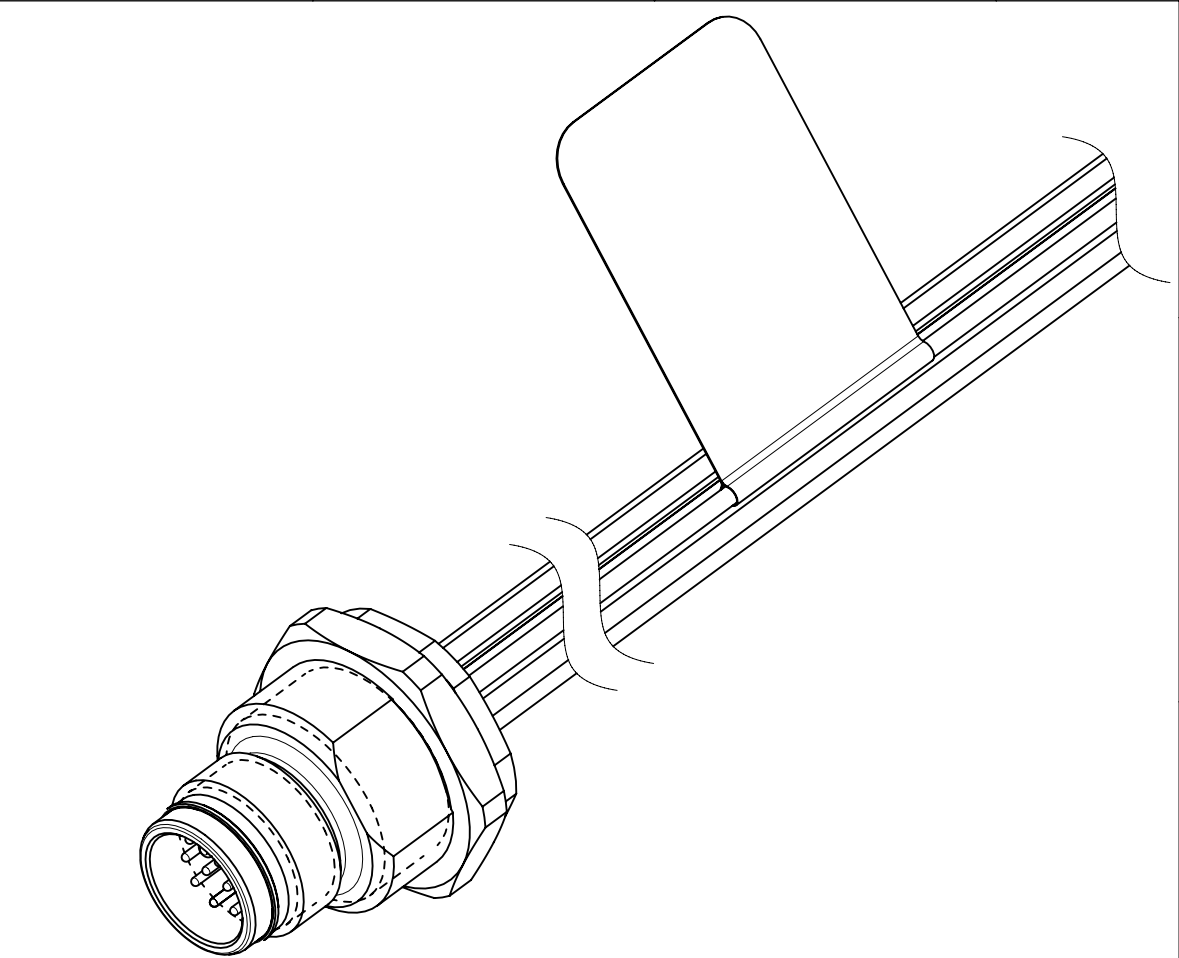
PART LIST 12P AC

|            |                    |                                          |        |           |
|------------|--------------------|------------------------------------------|--------|-----------|
| MOLEX P/N  | ENGINEERING NUMBER | DESCRIPTION                              | L [mm] | TOL. [mm] |
| 1204040049 | YRCU46E01C300      | REC U12 12P AC MA PVC 0.3M M16BM WIR BRA | 300    | +40       |
| 1204040053 | YRCU46E01C500      | REC U12 12P AC MA PVC 0.5M M16BM WIR BRA | 500    | +40       |

PART LIST 4P DC

|            |                    |                                          |        |           |
|------------|--------------------|------------------------------------------|--------|-----------|
| MOLEX P/N  | ENGINEERING NUMBER | DESCRIPTION                              | L [mm] | TOL. [mm] |
| 1204063007 | ERYA2U46E03C300    | REC U12 4P DC MA PVC 0.3M M16 BM WIR BRA | 300    | +40       |
| 1204063008 | ERYA2U46E03C500    | REC U12 4P DC MA PVC 0.5M M16 BM WIR BRA | 500    | +40       |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/01/31 | 08:21:41 |
|-----------------|----|--------------|------------|----------|



NOTES:

- PARTS ACC. TO PRODUCT SPECIFICATION 1204000001 PS P10 AND IN STYLE OF IEC-61076-2-010
- BOM: SEE SHEET 3
- FOR THE ELECTRICAL RATINGS:  
DERATING HAS TO BE CONSIDERED  
OVERVOLTAGE CATEGORY: 3  
POLLUTION DEGREE: 3, ONLY IN MATED AND LOCKED CONDITION
- MECHANICAL OPERATIONS: 100 CYCLES
- MATES WITH M12 FEMALE CORDSETS
- LABEL PRINTED WITH THE MOLEX AND ENGINEERING NUMBERS, VOLTS AND AMPERES, PRODUCTION DATE AND PRODUCTION ORDER NUMBER, UL/CSA MARKINGS AND COUNTRY OF ORIGIN LABEL APPLIED ON WHITE WIRE
- PACKAGING: SINGLE PACKED IN BAG AND THE BAGS IN MOLEX STANDARD CARTONS
- PANEL THICKNESS MAX. 6.2 mm.
- RECOMMENDED PANEL CUTOUT: SEE PICTURE IN SHEET 1

|                                                            |                                                                                                                                               |                        |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------|------------------|--|--------------------|--|------------------|--|--|
| 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: CHANGED MIN. TEMP. IN TABLE |                                                 |                                  | <div>molex</div> |  |                    |  |                  |  |  |
|                                                            | mm                                                                                                                                            |                        | 2:1                                                                                                                                                                                   |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
|                                                            | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                        | EC NO: 736602<br>DRWN: RSCHIEBER 2023/01/30<br>CHK'D: RSILLER 2023/01/31<br>APPR: RSILLER 2023/01/31<br>INITIAL REVISION:<br>DRWN: JELIZAINCIN 2021/09/08<br>APPR: RSILLER 2022/07/14 |                                                   |                                               | REC U12 XP XC MA PVC XM M16 BM WIR SE<br>BRA AU |                                  |                  |  |                    |  |                  |  |  |
|                                                            | ANGULAR TOL ± 1.0 °                                                                                                                           |                        |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
|                                                            | 4 PLACES ±                                                                                                                                    |                        |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
|                                                            | 3 PLACES ±                                                                                                                                    |                        |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
|                                                            | 2 PLACES ± 0.05                                                                                                                               |                        |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
|                                                            | DIVISIONAL SYMBOLS                                                                                                                            | 1 PLACE ± 0.3          |                                                                                                                                                                                       | DOCUMENT NUMBER<br>1204040046<br>PSD<br>000<br>A2 |                                               |                                                 | DOC TYPE<br>DOC PART<br>REVISION |                  |  |                    |  |                  |  |  |
|                                                            |                                                                                                                                               | 0 PLACES ± 0.5         |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                               | THIRD ANGLE PROJECTION |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  | DRAWING<br>A3-SIZE |  | SERIES<br>120404 |  |  |
|                                                            |                                                                                                                                               |                        |                                                                                                                                                                                       |                                                   |                                               |                                                 |                                  |                  |  |                    |  |                  |  |  |

