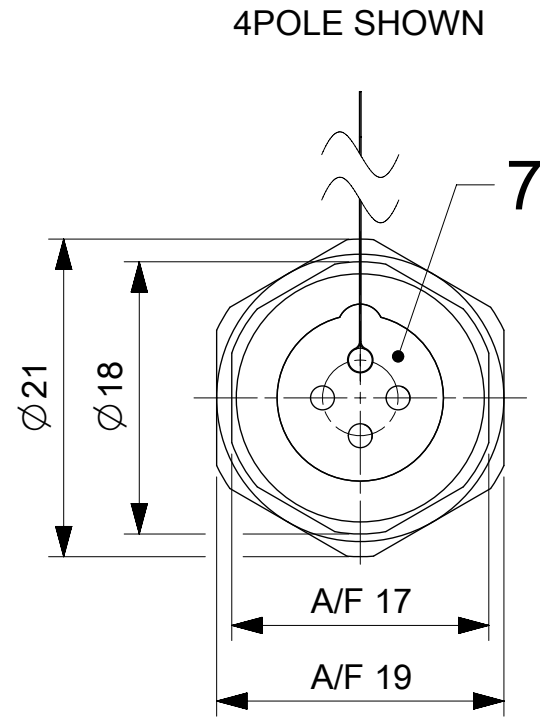
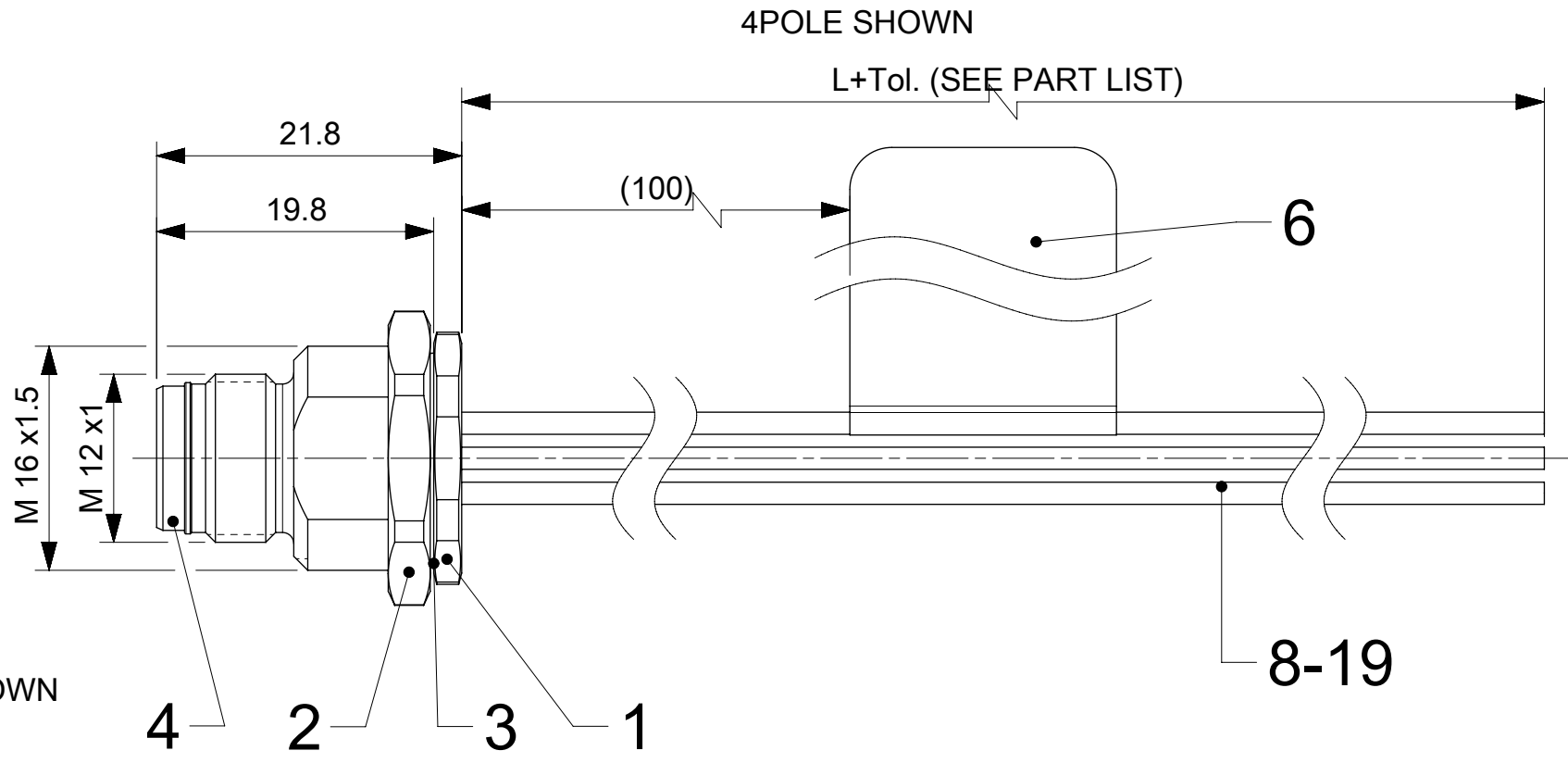
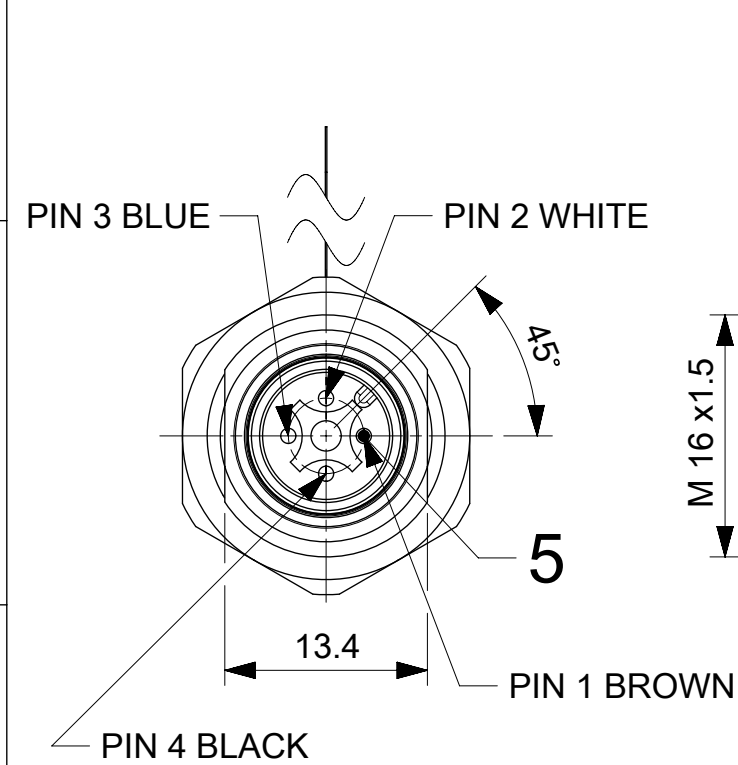
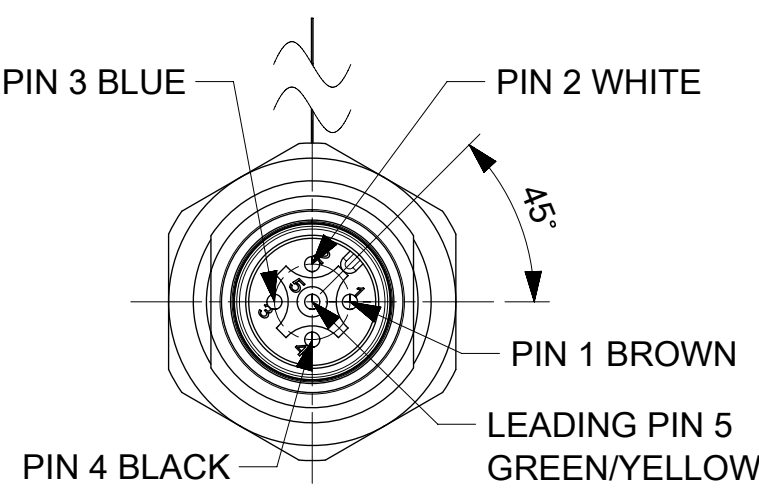


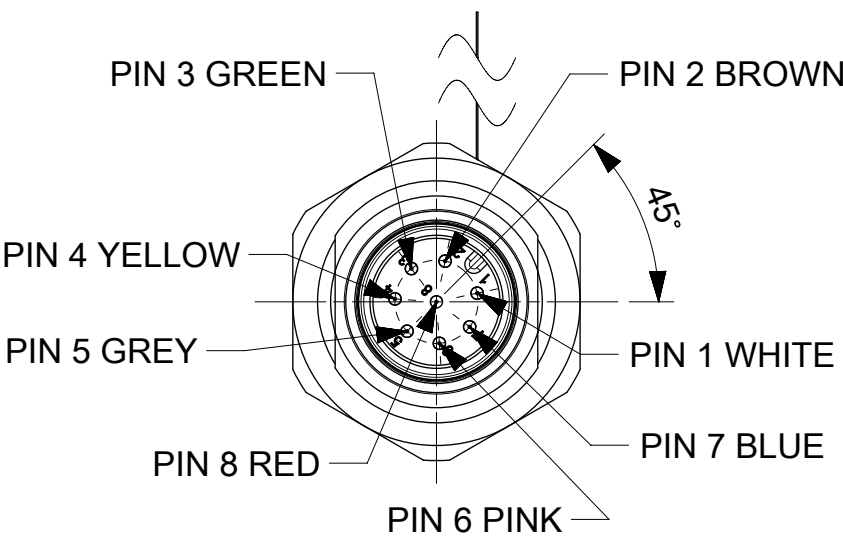
M12 4 POLE AC MALE



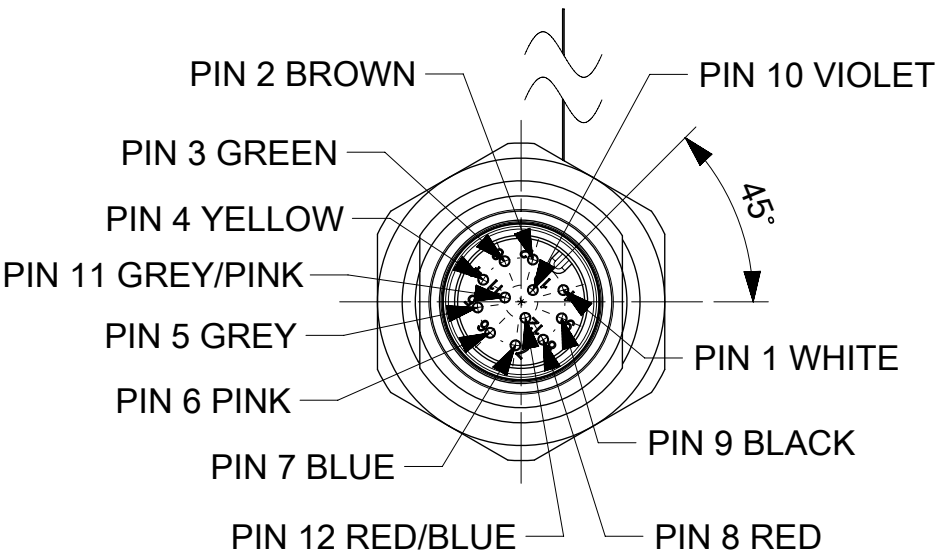
M12 5 POLE AC MALE



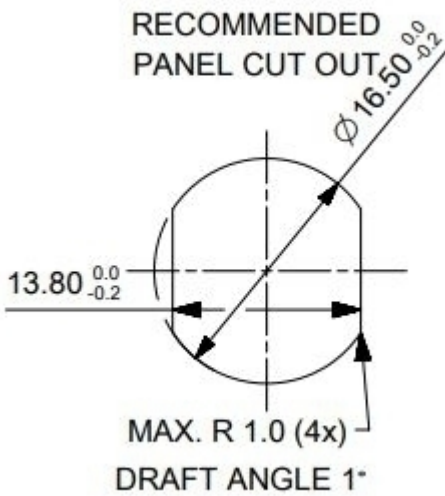
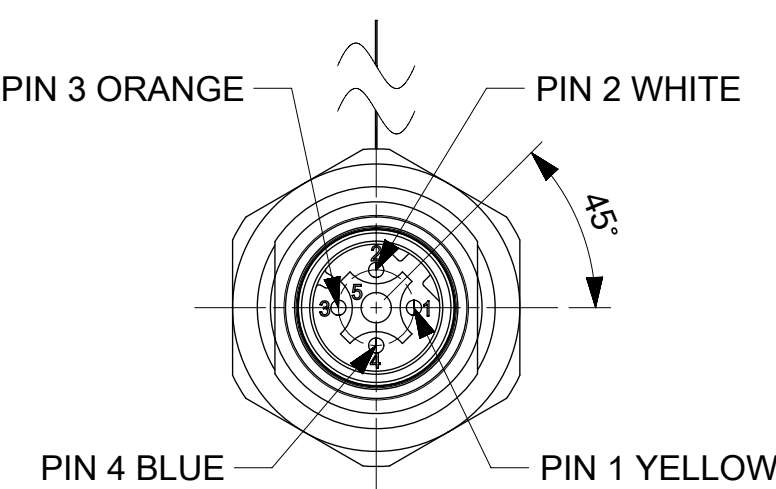
M12 8 POLE AC MALE



M12 12 POLE AC MALE



M12 4 POLE DC MALE



| 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                  |
| $\nabla A = 0$                                       | mm                                                                                                                                            | 2:1                    |
| $\nabla E = 0$                                       | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                        |
| $\nabla F = 0$                                       | ANGULAR TOL $\pm 1.0^\circ$                                                                                                                   |                        |
| DIVISIONAL SYMBOLS                                   | 4 PLACES                                                                                                                                      | $\pm$                  |
|                                                      | 3 PLACES                                                                                                                                      | $\pm$                  |
|                                                      | 2 PLACES                                                                                                                                      | $\pm 0.05$             |
|                                                      | 1 PLACE                                                                                                                                       | $\pm 0.3$              |
|                                                      | 0 PLACES                                                                                                                                      | $\pm 0.5$              |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                                                                                               | THIRD ANGLE PROJECTION |
| DRAWING                                              |                                                                                                                                               | SERIES                 |
| A3-SIZE                                              |                                                                                                                                               | 120404                 |
| MATERIAL NUMBER                                      |                                                                                                                                               | CUSTOMER               |
| SEE PART LIST                                        |                                                                                                                                               | GENERAL MARKET         |
| SHEET NUMBER                                         |                                                                                                                                               | 1 OF 3                 |

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

|                   |                   |            |
|-------------------|-------------------|------------|
| EC NO: 736602     | DRWN: RSCHIEBER   | 2023/01/30 |
| CHK'D: RSILLER    | 2023/01/31        |            |
| APPR: RSILLER     | 2023/01/31        |            |
| INITIAL REVISION: | DRWN: JELIZAINCIN | 2021/09/08 |
| APPR: RSILLER     | 2022/07/14        |            |

|                 |  |          |          |          |
|-----------------|--|----------|----------|----------|
| DOCUMENT NUMBER |  | DOC TYPE | DOC PART | REVISION |
| 1204040046      |  | PSD      | 000      | A2       |

|                                              |  |
|----------------------------------------------|--|
| molex                                        |  |
| REC U12 XP XC MA PVC XM M16 BM WIR SE BRA AU |  |
| PRODUCT CUSTOMER DRAWING                     |  |

|                                                                   |   |  |                                                          |  |                  |  |              |  |              |  |              |         |  |
|-------------------------------------------------------------------|---|--|----------------------------------------------------------|--|------------------|--|--------------|--|--------------|--|--------------|---------|--|
| 10                                                                | 9 |  | 8                                                        |  | 7                |  | 6            |  | 5            |  |              |         |  |
| POLES                                                             |   |  | 4 POLE                                                   |  | 5 POLE           |  | 8 POLE       |  | 12 POLE      |  | 4 POLE       |         |  |
| VOLTAGE RATING                                                    |   |  | 250V                                                     |  | 60V              |  | 30V          |  | 30V          |  | 250V         |         |  |
| CODING                                                            |   |  | A - Code                                                 |  | A - Code         |  | A - Code     |  | A - Code     |  | D - Code     |         |  |
| AMPERE RATING                                                     |   |  | 4A                                                       |  | 4A               |  | 2A           |  | 1.5A         |  | 4A           |         |  |
| 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 |  | 0.34 mm² PVC |         |  |
| PIN DIAMETER                                                      |   |  | 1.0 mm                                                   |  | 1.0 mm           |  | 0.8 mm       |  | 0.6 mm       |  | 1.0 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       |

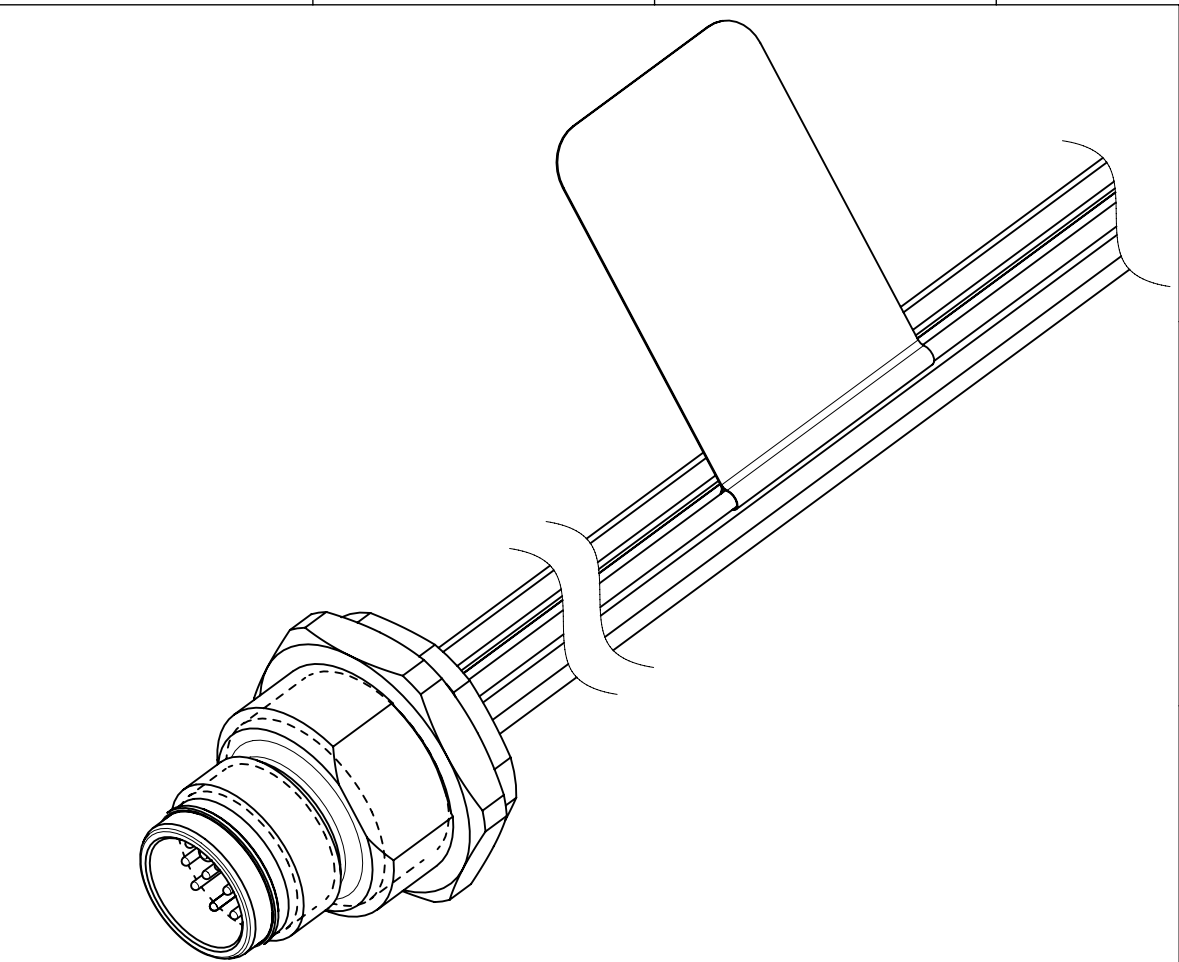
PART LIST 12P AC

|            |                    |                                          |        |           |
|------------|--------------------|------------------------------------------|--------|-----------|
| 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<br><br>DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |        |  |                                                                                                                                                                                           |  |  |         |         |  | 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> |  |  |        |              |  |     |  |    |  |
|                                              | DIMENSION UNITS                                                                                                                               |  | SCALE  |  | EC NO: 736602<br>DRWN: RSCHIEBER 2023/01/30<br>CHK'D: RSILLER 2023/01/31<br>APPR: RSILLER 2023/01/31<br><br>INITIAL REVISION:<br>DRWN: JELIZAINCIN 2021/09/08<br>APPR: RSILLER 2022/07/14 |  |  |         |         |  |                                               |        |        |  | DOCUMENT NUMBER                       |               |                 |  |  | DOC TYPE       |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | mm 2:1                                                                                                                                        |  |        |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  | GENERAL TOLERANCES (UNLESS SPECIFIED) |               |                 |  |  | 1204040046     |                                                                              |  |  |        | PSD          |  | 000 |  | A2 |  |
|                                              | ANGULAR TOL ± 1.0 °                                                                                                                           |  |        |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  |                                       |               |                 |  |  |                |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | 4 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  |                                       |               |                 |  |  |                |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | 3 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  |                                       |               |                 |  |  |                |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | 2 PLACES                                                                                                                                      |  | ± 0.05 |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  |                                       |               |                 |  |  |                |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | 1 PLACE                                                                                                                                       |  | ± 0.3  |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  |                                       |               |                 |  |  |                |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | 0 PLACES                                                                                                                                      |  | ± 0.5  |  |                                                                                                                                                                                           |  |  |         |         |  |                                               |        |        |  |                                       |               |                 |  |  |                |                                                                              |  |  |        |              |  |     |  |    |  |
|                                              | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |        |  | THIRD ANGLE PROJECTION                                                                                                                                                                    |  |  |         | DRAWING |  |                                               |        | SERIES |  |                                       |               | MATERIAL NUMBER |  |  |                | CUSTOMER                                                                     |  |  |        | SHEET NUMBER |  |     |  |    |  |
|                                              |                                                                                                                                               |  |        |  |                                                                                                                                                                                           |  |  | A3-SIZE |         |  |                                               | 120404 |        |  |                                       | SEE PART LIST |                 |  |  | GENERAL MARKET |                                                                              |  |  | 2 OF 3 |              |  |     |  |    |  |

