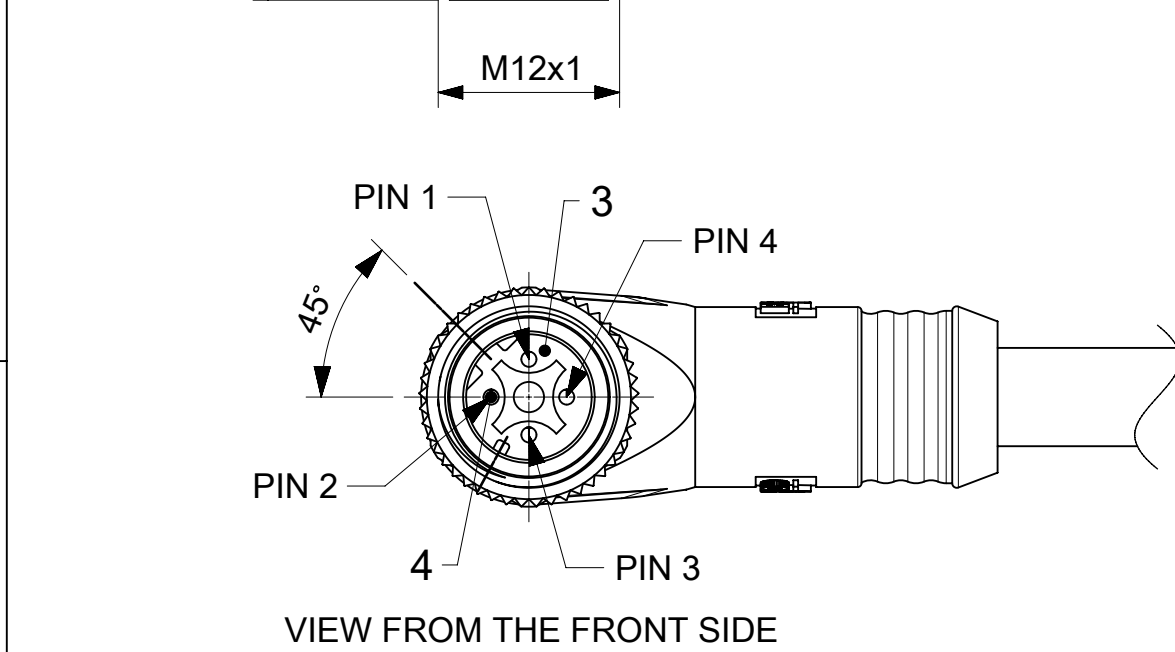
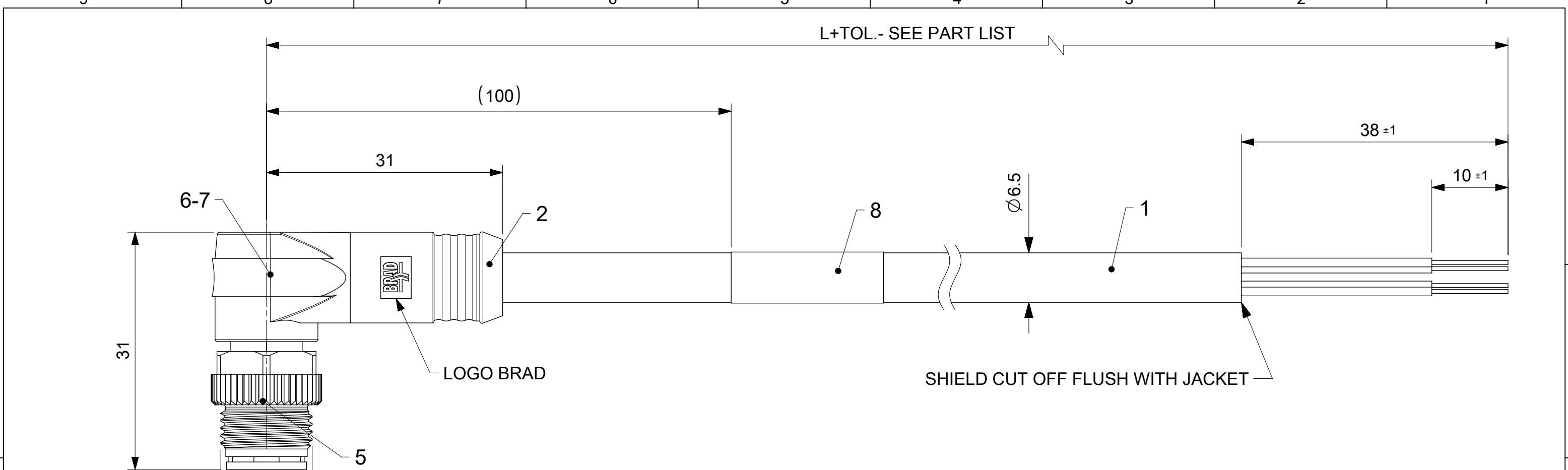




|                                |                        |
|--------------------------------|------------------------|
| CABLE:                         |                        |
| TEMPERATURE RATING (STORAGE)   | -40 / +80°C            |
| TEMPERATURE RATING (OPERATION) | -20 / +50°C            |
| WELD SLAG RESISTANCE           | YES, S-300 MOLEX TEST  |
| FREE SUBSTANCE'S               | FCKW, SILICONE, AND PB |
| FIRE PERFORMANCE               | IEC60332-1, UL1581     |
| OIL RESISTANCE                 | ISO6722, UL758/2556    |

PART LIST

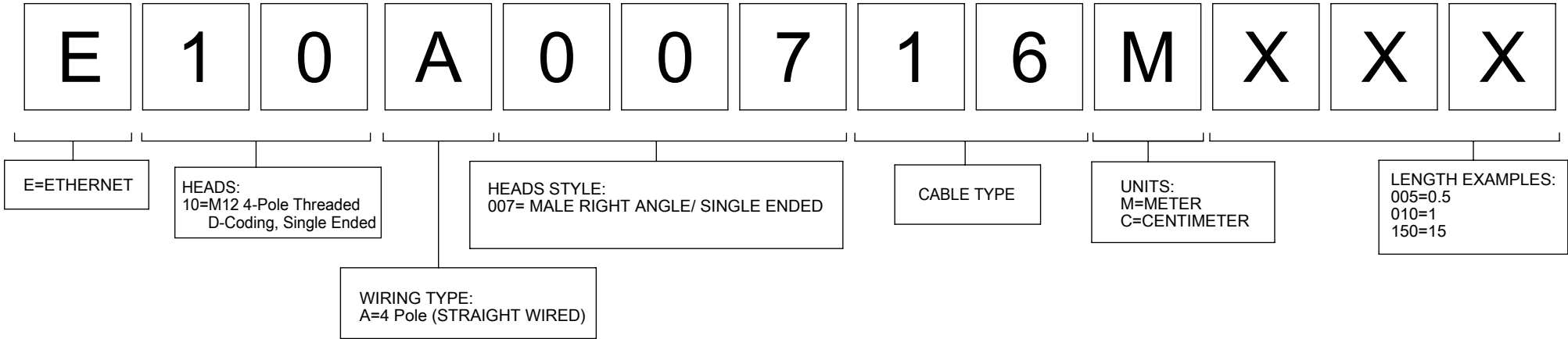
| PART NO    | ENGINEERING NO | L+TOL [mm] |
|------------|----------------|------------|
| 1201089159 | E10A00716M010  | 1000+56    |
| 1201088538 | E10A00716M020  | 2000+89    |
| 1201088788 | E10A00716M030  | 3000+89    |
| 1201088539 | E10A00716M050  | 5000+165   |
| 1201088540 | E10A00716M100  | 10000+317  |
| 1201088541 | E10A00716M200  | 20000+622  |

NOTES:  
ELECTRICAL DATA:  
VOLTAGE RATING: 125V <sup>(A1)</sup>  
AMPERAGE RATING: 1.5A  
INSULATION RESISTANCE: 10<sup>8</sup> Ω MIN.  
MATING CYCLES: MIN. 100

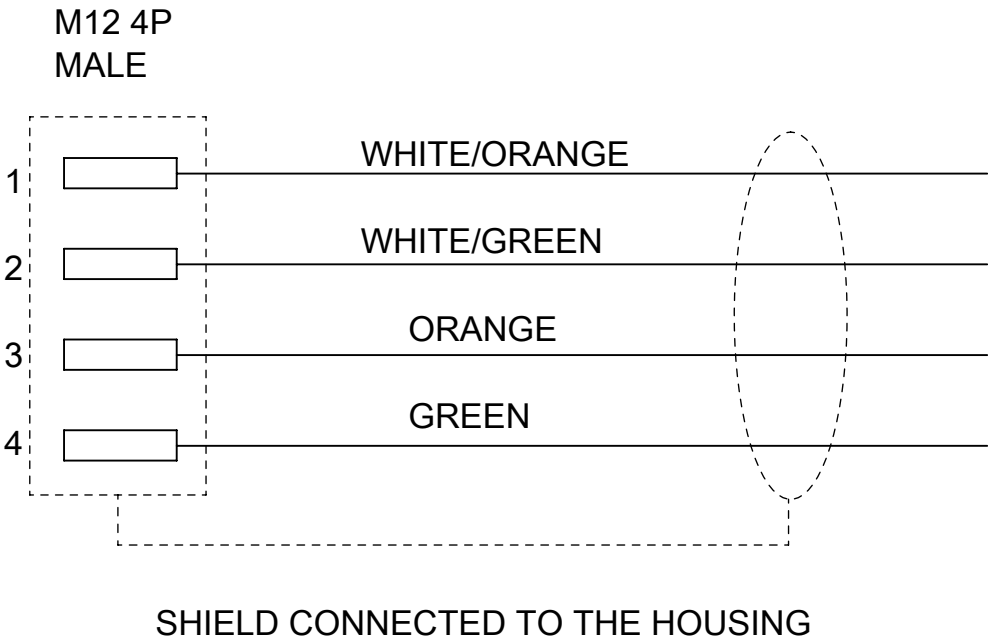
ENVIRONMENTAL:  
PROTECTION: IP67 in mated and locked position.

| SYMBOLS                                                                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |  |                                                                                       |  |         |                                                      |        |          |               |                 |                |                 |        |                |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|---------------------------------------------------------------------------------------|--|---------|------------------------------------------------------|--------|----------|---------------|-----------------|----------------|-----------------|--------|----------------|
|  = 0 | DIMENSION UNITS                                                                                                                               |  | SCALE |  | CURRENT REV DESC: UPDATED VOLTAGE & CURRENT RATINGS                                   |  |         | <div>molex</div>                                     |        |          |               |                 |                |                 |        |                |
|                                                                                           | mm                                                                                                                                            |  | 2:1   |  |                                                                                       |  |         |                                                      |        |          |               |                 |                |                 |        |                |
|  = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |       |  | EC NO: 746321                                                                         |  |         | CSE M12 ETH 4P DC MA RA<br>WSOR XM SE SHLD BK BRA AU |        |          |               |                 |                |                 |        |                |
|  = 0 |                                                                                                                                               |  |       |  |                                                                                       |  |         |                                                      |        |          |               |                 |                |                 |        |                |
|  = 0 | ANGULAR TOL ± °                                                                                                                               |  |       |  | DRWN: VHANDI 2023/04/17                                                               |  |         | PRODUCT CUSTOMER DRAWING                             |        |          |               |                 |                |                 |        |                |
|  = 0 | 4 PLACES ±                                                                                                                                    |  |       |  | CHK'D: RSILLER 2023/04/18                                                             |  |         |                                                      |        |          |               |                 |                |                 |        |                |
|  = 0 | 3 PLACES ±                                                                                                                                    |  |       |  | APPR: RSILLER 2023/04/18                                                              |  |         |                                                      |        |          |               |                 |                |                 |        |                |
|  = 0 | 2 PLACES ± 0.05                                                                                                                               |  |       |  | INITIAL REVISION:                                                                     |  |         | DOCUMENT NUMBER<br>1201088539                        |        |          |               |                 |                |                 |        |                |
|  = 0 | 1 PLACE ± 0.3                                                                                                                                 |  |       |  | DRWN: ARPITT 2023/03/17                                                               |  |         |                                                      |        |          |               | DOC TYPE<br>PSD |                | DOC PART<br>000 |        | REVISION<br>A1 |
|  = 0 | 0 PLACES ± 0.5                                                                                                                                |  |       |  | APPR: RSILLER 2023/03/23                                                              |  |         | MATERIAL NUMBER                                      |        | CUSTOMER |               | SHEET NUMBER    |                |                 |        |                |
|  = 0 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |       |  | THIRD ANGLE PROJECTION                                                                |  | DRAWING |                                                      | SERIES |          | SEE PART LIST |                 | GENERAL MARKET |                 | 1 OF 2 |                |
|  = 0 |                                                                                                                                               |  |       |  |  |  | A3-SIZE |                                                      | 120108 |          |               |                 |                |                 |        |                |

PART No MATRIX

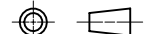


WIRING DIAGRAM

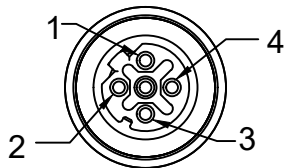


BOM

|                 |      |                            |            |                  |
|-----------------|------|----------------------------|------------|------------------|
| 8               | 1    | LABEL 50x69                | ABS        | WHITE            |
| 7               | 1    | M12 SLEEVE RA              | BRASS      | Ni-PLATED        |
| 6               | 1    | M12 SLEEVE RA              | BRASS      | Ni-PLATED        |
| 5               | 1    | M12 MALE NUT HEX           | BRASS      | Ni-PLATED        |
| 4               | 4    | CONTACT 10 MALE            | BRASS      | GOLD OVER NICKEL |
| 3               | 1    | INSERT M12 MA 4P           | PUR        | BLACK            |
| 2               | -    | MOULDING MATERIAL          | TPU        | BLACK            |
| 1               | -    | CABLE 2x2x24AWG O.D. 6.5MM | TPU        | TEAL             |
| ITEM            | QTY. | DESCRIPTION                | MATERIAL   | FINISH/COLOR     |
| DOCUMENT STATUS | P1   | RELEASE DATE               | 2023/04/18 | 06:49:27         |

| SYMBOLS                                                                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |  |                                                                                       |  |         |  |        |                                                                                                                                |                 |          |                |          |              |  |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|---------------------------------------------------------------------------------------|--|---------|--|--------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|----------------|----------|--------------|--|
|  = 0 | DIMENSION UNITS                                                                                                                               |  | SCALE |  | CURRENT REV DESC: UPDATED VOLTAGE & CURRENT RATINGS                                   |  |         |  |        | <div><div>molex</div><div>CSE M12 ETH 4P DC MA RA<br/>WSOR XM SE SHLD BK BRA AU</div><div>PRODUCT CUSTOMER DRAWING</div></div> |                 |          |                |          |              |  |
|  = 0 | mm                                                                                                                                            |  | 2:1   |  |                                                                                       |  |         |  |        |                                                                                                                                |                 |          |                |          |              |  |
|  = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |       |  | EC NO: 746321                                                                         |  |         |  |        | DOCUMENT NUMBER                                                                                                                |                 |          |                |          |              |  |
|  = 0 | ANGULAR TOL ± °                                                                                                                               |  |       |  | DRWN: VHANDI 2023/04/17                                                               |  |         |  |        |                                                                                                                                |                 |          |                |          |              |  |
|  = 0 | 4 PLACES ±                                                                                                                                    |  |       |  | CHK'D: RSILLER 2023/04/18                                                             |  |         |  |        |                                                                                                                                |                 |          |                |          |              |  |
|  = 0 | 3 PLACES ±                                                                                                                                    |  |       |  | APPR: RSILLER 2023/04/18                                                              |  |         |  |        | 1201088539                                                                                                                     |                 |          |                |          |              |  |
|  = 0 | 2 PLACES ± 0.05                                                                                                                               |  |       |  | INITIAL REVISION:                                                                     |  |         |  |        |                                                                                                                                |                 |          |                |          |              |  |
|  = 0 | 1 PLACE ± 0.3                                                                                                                                 |  |       |  | DRWN: ARPITT 2023/03/17                                                               |  |         |  |        |                                                                                                                                |                 |          |                |          |              |  |
|  = 0 | 0 PLACES ± 0.5                                                                                                                                |  |       |  | APPR: RSILLER 2023/03/23                                                              |  |         |  |        | DOC TYPE                                                                                                                       |                 | DOC PART |                | REVISION |              |  |
|  = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |  |       |  | THIRD ANGLE PROJECTION                                                                |  | DRAWING |  | SERIES |                                                                                                                                | MATERIAL NUMBER |          | CUSTOMER       |          | SHEET NUMBER |  |
|  = 0 |                                                                                                                                               |  |       |  |  |  | A3-SIZE |  | 120108 |                                                                                                                                | SEE PART LIST   |          | GENERAL MARKET |          | 2 OF 2       |  |

FRONT VIEW - MALE M12



- 1-WHITE/ORANGE  
2-WHITE/GREEN  
3-ORANGE  
4-GREEN

## PART NUMBER LEGEND

E10A00716M020

FINISHED LENGTH  
M002 - 0.2 METER  
M010 - 1 METER  
M200 - 20 METER

| A | MATERIAL NUMBER | ENGINEERING NUMBER | FINISHED LENGTH |
|---|-----------------|--------------------|-----------------|
|   | 1201088538      | E10A00716M020      | 2M [6FT 7 IN]   |
|   | 1201088540      | E10A00716M100      | 10M[32FT 10 IN] |
|   | 1201088541      | E10A00716M200      | 20M[65FT 7 IN]  |

NOTES:

1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:  
VOLTAGE: 125V  
CURRENT: 1.5A
4. PROTECTION: IP67 (WHEN MATED)
5. COUPLING THREAD: M12X1
6. ALL DIMENSIONS ARE FOR REFERENCE  
UNLESS TOLERANCED OR NOTED OTHERWISE

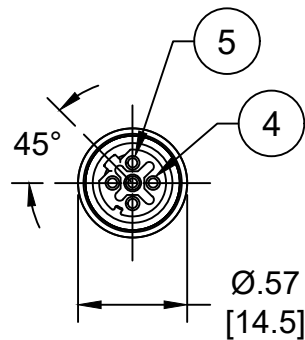
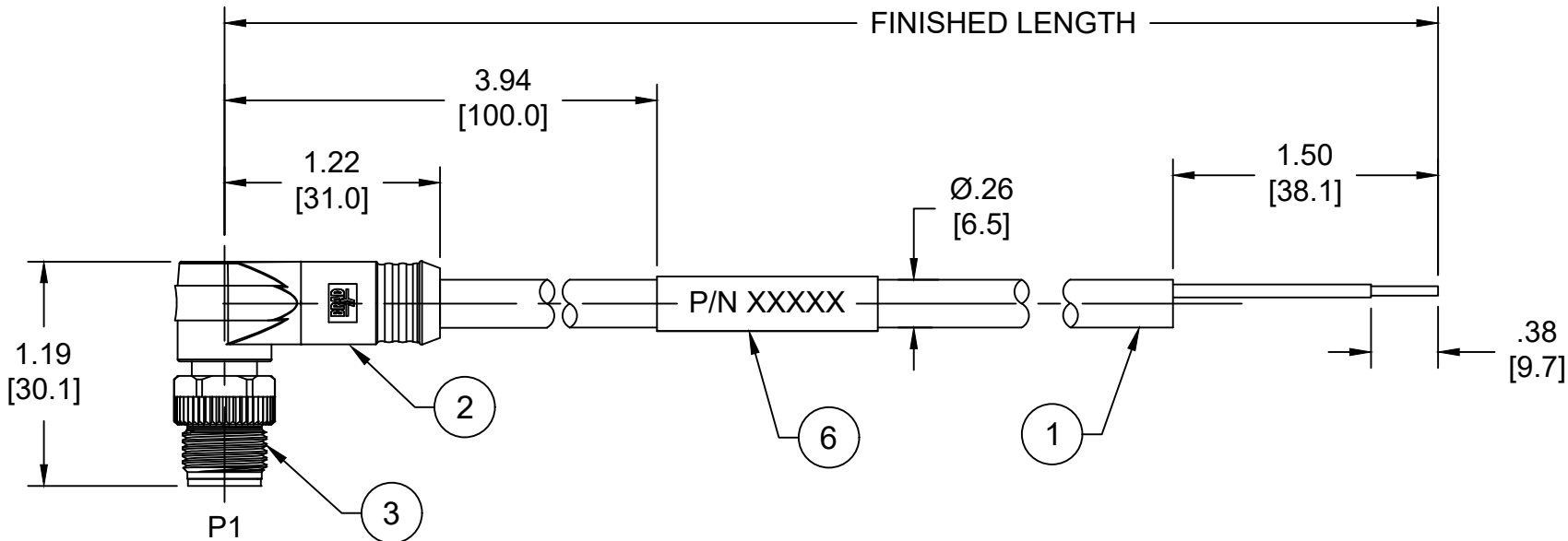
### ADDITIONAL CABLE INFORMATION

PHYSICAL CHARACTERISTICS:

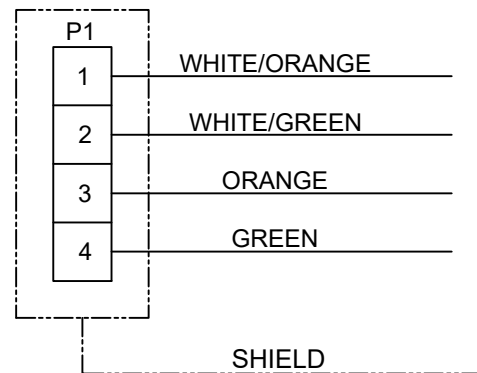
|                     |                                           |
|---------------------|-------------------------------------------|
| CONDUCTOR SIZE      | 24AWG 2 PAIR (19/0.12mm) BARE COPPER      |
| INSULATION MATERIAL | POLYOLEFIN                                |
| SHIELD/BRAID        | TINNED COPPER 85% COVERAGE                |
| JACKET MATERIAL     | TPU (TEAL)                                |
| CONDUCTOR           | ORANGE, ORANGE-WHITE & GREEN, GREEN-WHITE |
| TAPE                | ALUMINUM-POLYESTER                        |

CABLE:

|                                |                        |
|--------------------------------|------------------------|
| TEMPERATURE RATING (STORAGE)   | -40 / +80°C            |
| TEMPERATURE RATING (OPERATION) | -20 / +50°C            |
| WELD SLAG RESISTANCE           | YES, S-300 MOLEX TEST  |
| FREE SUBSTANCE'S               | FCKW, SILICONE, AND PB |
| FIRE PERFORMANCE               | IEC60332-1, UL1581     |
| OIL RESISTANCE                 | ISO6722, UL758/2556    |



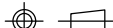
FACE VIEW - MALE



## WIRING DIAGRAM

|      |              |              |                  |
|------|--------------|--------------|------------------|
| 6    | WRAP LABEL   | VINYL        | BLACK/YELLOW     |
| 5    | INSERT       | PUR          | BLACK            |
| 4    | PIN CONTACT  | COPPER ALLOY | GOLD OVER NICKEL |
| 3    | COUPLING NUT | BRASS        | NICKEL PLATED    |
| 2    | OVERMOLD     | PUR          | BLACK            |
| 1    | CABLE #24AWG | TPU          | TEAL             |
| ITEM | DESCRIPTION  | MATERIAL     | FINISH           |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/04/18 | 21:16:40 |
|-----------------|----|--------------|------------|----------|

|                                                                                                                                                                                              |                                                                                                                                               |       |       |                                                                                       |                                                     |               |            |                                                            |     |                |          |              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|------------|------------------------------------------------------------|-----|----------------|----------|--------------|--|
| 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>F</div><div>A</div></div><div>=0</div></div><div><div><div>F</div><div>C</div></div><div>=0</div></div><div><div><div>F</div><div>D</div></div><div>=0</div></div></div> | DIMENSION UNITS                                                                                                                               |       | SCALE |                                                                                       | CURRENT REV DESC: ITEM-1 WAS PUR. MODIFIED PN CHART |               |            | <div><div><div>molex</div></div></div>                     |     |                |          |              |  |
|                                                                                                                                                                                              | INCH/MM                                                                                                                                       |       | NTS   |                                                                                       |                                                     |               |            |                                                            |     |                |          |              |  |
|                                                                                                                                                                                              | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |       |       |                                                                                       |                                                     |               |            |                                                            |     |                |          |              |  |
| DIVISIONAL SYMBOLS                                                                                                                                                                           |                                                                                                                                               |       | mm    | INCH                                                                                  | EC NO: 703079                                       |               |            | MICRO-CHANGE CORDSET, M12,<br>4 POLE, MALE, 90DEG, #24 AWG |     |                |          |              |  |
|                                                                                                                                                                                              | 4 PLACES                                                                                                                                      | ±---- | ±---- |                                                                                       | DRWN: ABENJAMINLW                                   | 2022/03/15    |            |                                                            |     |                |          |              |  |
|                                                                                                                                                                                              | 3 PLACES                                                                                                                                      | ±---- | ±---- |                                                                                       | CHK'D: RSTONE                                       | 2022/04/12    |            |                                                            |     |                |          |              |  |
|                                                                                                                                                                                              | 2 PLACES                                                                                                                                      | ±---- | ±---- |                                                                                       | APPR: BWOODMAN                                      | 2022/04/18    |            |                                                            |     |                |          |              |  |
|                                                                                                                                                                                              | PRODUCT CUSTOMER DRAWING                                                                                                                      |       |       |                                                                                       |                                                     |               |            |                                                            |     |                |          |              |  |
|                                                                                                                                                                                              | 1 PLACE                                                                                                                                       | ±---- | ±---- |                                                                                       | INITIAL REVISION:                                   |               |            | DOCUMENT NUMBER                                            |     | DOC TYPE       | DOC PART | REVISION     |  |
| 0 PLACES                                                                                                                                                                                     | ±----                                                                                                                                         | ±---- |       | DRWN: RSTONE                                                                          | 2017/08/04                                          | SD-120108-100 |            | PSD                                                        | 001 | A              |          |              |  |
| ANGULAR TOL ± ---- °                                                                                                                                                                         |                                                                                                                                               |       |       | APPR: BWOODMAN                                                                        |                                                     |               | 2017/08/11 |                                                            |     |                |          |              |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                                                                         |                                                                                                                                               |       |       | THIRD ANGLE PROJECTION                                                                |                                                     | DRAWING       | SERIES     | MATERIAL NUMBER                                            |     | CUSTOMER       |          | SHEET NUMBER |  |
|                                                                                                                                                                                              |                                                                                                                                               |       |       |  |                                                     | B-SIZE        | 120108     | SEE CHART                                                  |     | GENERAL MARKET |          | 1 OF 1       |  |