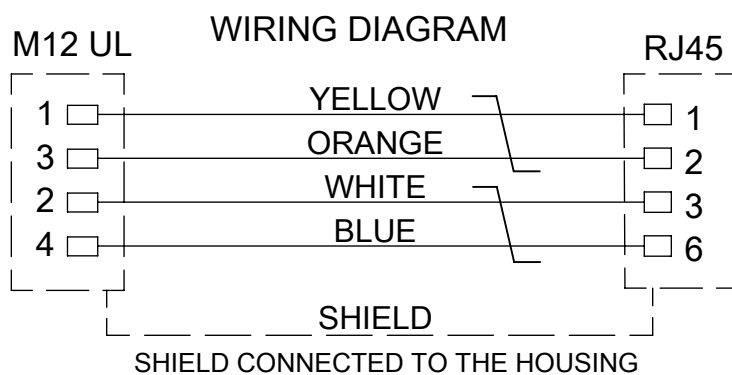
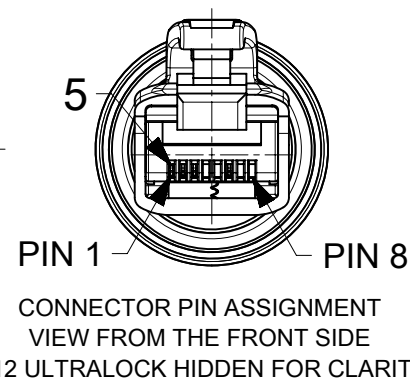
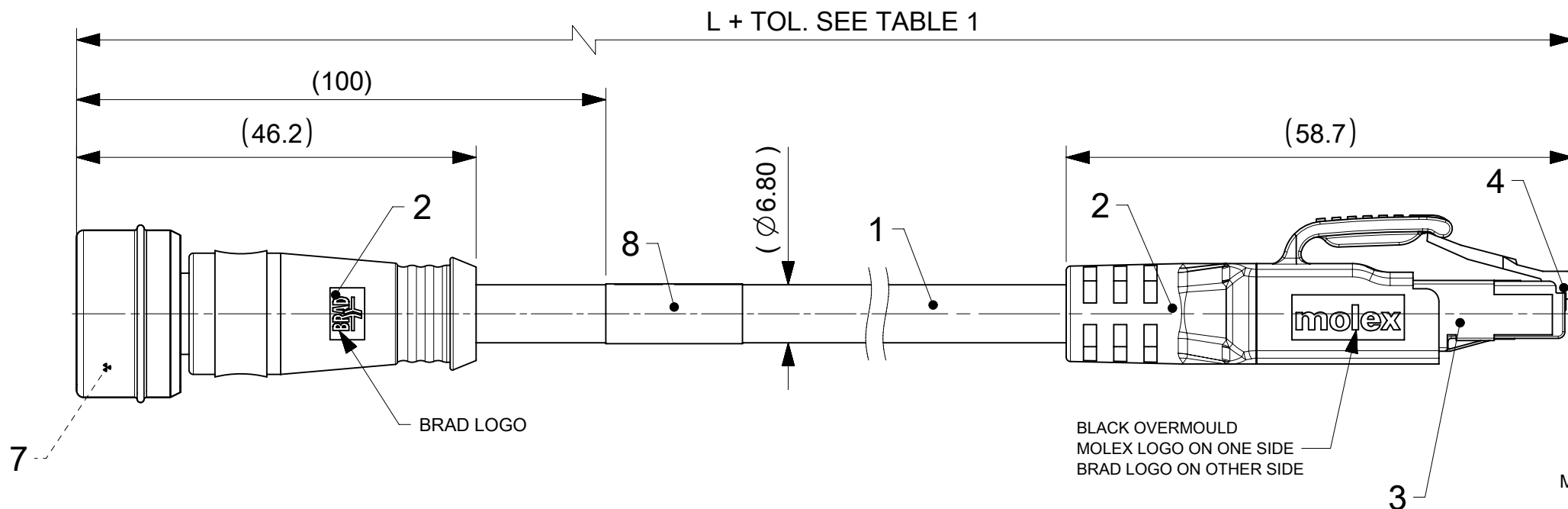
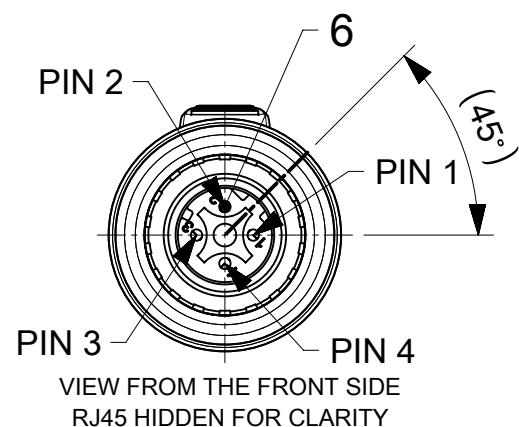
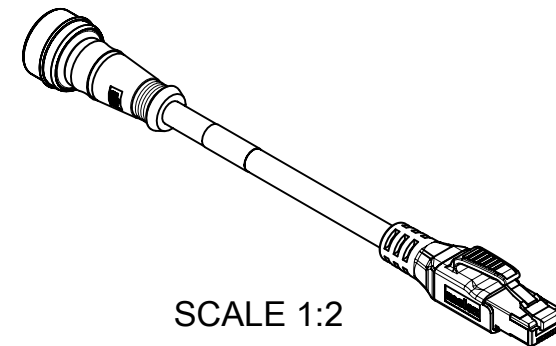


## PART No. MATRIX

|                                           |                                                      |   |                                           |   |   |   |                          |   |                                   |   |                                                                    |   |   |                          |
|-------------------------------------------|------------------------------------------------------|---|-------------------------------------------|---|---|---|--------------------------|---|-----------------------------------|---|--------------------------------------------------------------------|---|---|--------------------------|
| E                                         | W                                                    | 6 | A                                         | 0 | 6 | 0 | 1                        | 2 | M                                 | X | X                                                                  | X | X |                          |
| E=ETHERNET                                | HEADS:<br>1 = M12 Ultra lock<br>D-Coding<br>6 = RJ45 |   | HEADS STYLE:<br>060 = MALE STR / MALE STR |   |   |   | CABLE TYPE :<br>CABLE 12 |   | UNITS:<br>M= METER<br>T=10x METER |   | LENGTH EXAMPLES:<br>005=0.5 m<br>010=1 m<br>150=15 m<br>T100=100 m |   |   | H= 2 PCS. OF I/D Carrier |
| WIRING TYPE:<br>A=4 Pole (STRAIGHT WIRED) |                                                      |   |                                           |   |   |   |                          |   |                                   |   |                                                                    |   |   |                          |

SCALE 1:2



**TECHNICAL DATA :**  
M12 Ultralock D-Coded to RJ45 CAT5e Cordset  
AWG22 straight green inline 360° shielded.

Poles : 4  
Max. Voltage : 30V A.C. or 42V D.C.  
Max. Current : 1.5A  
Contact resistance :  $\leq 10 \text{ m}\Omega$   
Insulation Withstand :  $> 100 \text{ M}\Omega$   
Protection M12 Ultralock / RJ45 : IP69K / IP20  
Temperature range : -25°C to 85°C

Transmission characteristics  
ACCORDING TO ISO 11801 CATEGORY 5e  
PATCH CORD PROFINET TYPE C

Packaging :  
The cordsets are packed in a polybag.

## BOM

| ITEM | QTY | DESCRIPTION                       | MMATERIAL | FINISH/COLOR     |
|------|-----|-----------------------------------|-----------|------------------|
| 8    | 1   | LABEL                             | VINYL     | YELLOW           |
| 7    | 1   | ULTRALOCK ASSEMBLY                | -         | -                |
| 6    | 4   | CONTACT 10 MALE                   | COPPER    | GOLD OVER NICKEL |
| 5    | 4   | RJ45 CONTACT                      | PB        | SELECTIVE GOLD   |
| 4    | 1   | RJ45 PLUG TRANSPARENT             | PC        | -                |
| 3    | 1   | RJ45 PLUG SHIELD                  | BRASS     | TIN              |
| 2    | -   | MOULDING MATERIAL                 | TPU       | BLACK            |
| 1    | -   | CABLE ProFINET 2x2x#22 WSOR GN SH | TPU       | GREEN            |

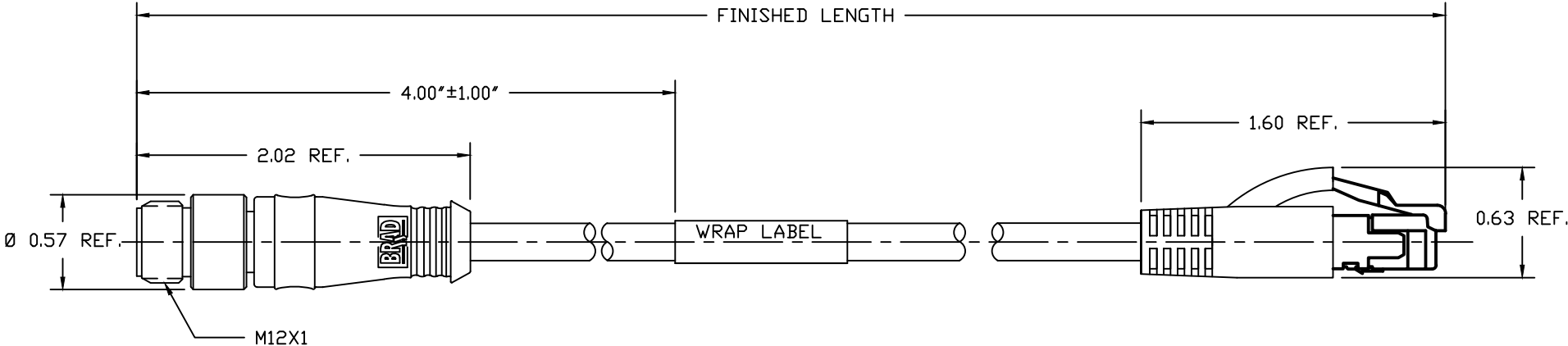
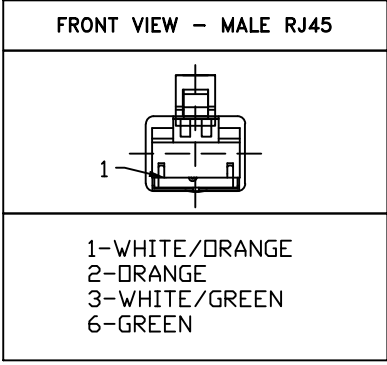
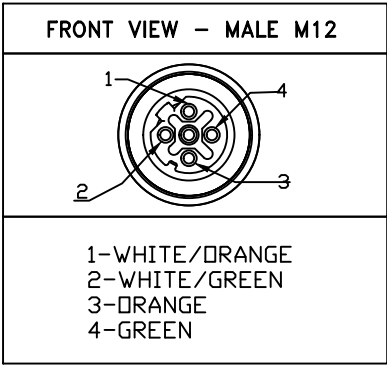
TABLE 1

| MOLEX PN   | ENGINEERING NO | L (m) |
|------------|----------------|-------|
| 1201080679 | EW6A06012M020  | 2     |
| 1201080680 | EW6A06012M050  | 5     |
| 1201080681 | EW6A06012M100  | 10    |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/04/14 | 13:32:12 |
|-----------------|----|--------------|------------|----------|

| TABLE OF LENGHT TOLERANCES (mm) |                     |               |
|---------------------------------|---------------------|---------------|
| OVER                            | UP TO AND INCLUDING | TOLERANCE     |
| 0                               | 305                 | +19           |
| 305                             | 915                 | +45           |
| 915                             | 1830                | +56           |
| 1830                            | 3660                | +89           |
| 3660                            | 7320                | +165          |
| 7320                            | 14640               | +317          |
| 14640                           | 30500               | +610          |
| 30500                           | >                   | +2% OF LENGTH |

| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | SCALE | CURRENT REV DESC:                                                                                                                                                                                                                                                         |         |        |  |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--|
| $\nabla/A = 0$     | mm                                                                                                                                            | 3:2   | <b>molex</b><br>CSE U12 ETH 4P DC MA STR WSOR RJ45<br>XM DE SHLD D6.8 GN<br>PRODUCT CUSTOMER DRAWING<br>DOCUMENT NUMBER: 1201080679<br>DOC TYPE: PSD<br>DOC PART: 000<br>REVISION: C2<br>MATERIAL NUMBER: SEE TABLE 1<br>CUSTOMER: GENERAL MARKET<br>SHEET NUMBER: 1 OF 1 |         |        |  |
| $\nabla/E = 0$     | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |       |                                                                                                                                                                                                                                                                           |         |        |  |
| $\nabla/F = 0$     | ANGULAR TOL                                                                                                                                   | ± °   |                                                                                                                                                                                                                                                                           |         |        |  |
| DIVISIONAL SYMBOLS | 4 PLACES                                                                                                                                      | ±     |                                                                                                                                                                                                                                                                           |         |        |  |
|                    | 3 PLACES                                                                                                                                      | ±     |                                                                                                                                                                                                                                                                           |         |        |  |
|                    | 2 PLACES                                                                                                                                      | ±     | INITIAL REVISION:                                                                                                                                                                                                                                                         |         |        |  |
|                    | 1 PLACE                                                                                                                                       | ±     | DRWN: MZIELINSKI 2018/04/26                                                                                                                                                                                                                                               |         |        |  |
|                    | 0 PLACES                                                                                                                                      | ±     | APPR: BWOODMAN 2018/05/10                                                                                                                                                                                                                                                 |         |        |  |
|                    | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |       | THIRD ANGLE PROJECTION                                                                                                                                                                                                                                                    | DRAWING | SERIES |  |
|                    |                                                                                                                                               |       |                                                                                                                                                                                                                                                                           | A3-SIZE | 120108 |  |



NOTES:

MECHANICAL

RJ45  
PLUG: CLEAR POLYCARBONATE  
BOOT: BLACK PVC

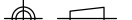
M12 CONNECTOR  
INSERT: BLACK PUR  
CONTACT: GOLD/NICKEL OVER COPPER ALLOY  
COUPLING NUT: NICKEL PLATED BRASS  
MOLDED BODY: BLACK PUR

CABLE: 24 AWG 2 PAIR CONDUCTORS BLUE TPE JACKET  
UL LISTED: CMR  
CSA LISTED: CMG  
BELDEN P/N: YM53146006R

WRAP LABEL: MARKED WITH P/N, DATE CODE,  
VOLTAGE & AMPERAGE

ELECTRICAL

ACCORDING TO CAT5e  
VOLTAGE RATING: 30V AC/DC  
AMPERAGE: 1.5A

|                                                  |                                                                                                                                               |                                                      |        |                                                                                       |                                                                    |                   |  |                     |  |                 |                                           |                |  |              |  |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------|--|---------------------|--|-----------------|-------------------------------------------|----------------|--|--------------|--|
| 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: UPDATED BORDER, ADDED NEW PNS, CLEANED UP COLORS |                   |  | <div>molex</div>    |  |                 |                                           |                |  |              |  |
|                                                  | INCH                                                                                                                                          |                                                      | 1:1    |                                                                                       |                                                                    |                   |  |                     |  |                 |                                           |                |  |              |  |
|                                                  | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                                                      |        |                                                                                       |                                                                    |                   |  |                     |  |                 |                                           |                |  |              |  |
| <div><div>F</div><div>A</div><div>=0</div></div> |                                                                                                                                               |                                                      |        |                                                                                       | EC NO: 759239                                                      |                   |  | M12 TO RJ45 CORDSET |  |                 |                                           |                |  |              |  |
| <div><div>F</div><div>C</div><div>=0</div></div> |                                                                                                                                               |                                                      |        |                                                                                       |                                                                    |                   |  |                     |  |                 | 4P MALE M12/RJ45 ST #24-2P BLUE TPE CAT5E |                |  |              |  |
| <div><div>F</div><div>P</div><div>=0</div></div> |                                                                                                                                               |                                                      |        |                                                                                       | 2023/08/09                                                         |                   |  | 2023/08/15          |  |                 |                                           |                |  |              |  |
| DIVISIONAL SYMBOLS                               | 4 PLACES                                                                                                                                      |                                                      | ± ---- | mm                                                                                    |                                                                    |                   |  |                     |  |                 | INCH                                      | DRWN: HENRYB1  |  |              |  |
|                                                  | 3 PLACES                                                                                                                                      |                                                      | ± ---- | ± 0.005                                                                               |                                                                    | CHK'D: RSTONE     |  |                     |  |                 |                                           |                |  |              |  |
|                                                  | 2 PLACES                                                                                                                                      |                                                      | ± 0.13 | ± 0.01                                                                                |                                                                    | APPR: BWOODMAN    |  |                     |  |                 |                                           |                |  |              |  |
|                                                  | 1 PLACE                                                                                                                                       |                                                      | ± 0.25 | ± 0.02                                                                                |                                                                    | INITIAL REVISION: |  |                     |  |                 |                                           |                |  |              |  |
|                                                  | 0 PLACES                                                                                                                                      |                                                      | ± ---- | ± ----                                                                                |                                                                    | DRWN: BARDEN      |  | 2013/02/15          |  |                 |                                           |                |  |              |  |
|                                                  |                                                                                                                                               | ANGULAR TOL ± 0.5 °                                  |        |                                                                                       |                                                                    | APPR: JFMURPHY    |  | 2013/04/18          |  |                 |                                           |                |  |              |  |
|                                                  |                                                                                                                                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | THIRD ANGLE PROJECTION                                                                |                                                                    | DRAWING           |  | SERIES              |  | MATERIAL NUMBER |                                           | CUSTOMER       |  | SHEET NUMBER |  |
|                                                  |                                                                                                                                               |                                                      |        |  |                                                                    | A-SIZE            |  | 120108              |  | SEE SHEET 2     |                                           | GENERAL MARKET |  | 1 OF 2       |  |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/08/15 | 19:11:16 |
|-----------------|----|--------------|------------|----------|

| MATERIAL NO. | ENGINEERING NO. |
|--------------|-----------------|
| 1201088184   | E16A06006M005   |
| 1201088148   | E16A06006M010   |
| 1201088149   | E16A06006M020   |
| 1201088150   | E16A06006M030   |
| 1201088151   | E16A06006M040   |
| 1201088152   | E16A06006M050   |
| 1201088153   | E16A06006M060   |
| 1201088154   | E16A06006M070   |
| 1201088155   | E16A06006M080   |
| 1201088156   | E16A06006M090   |
| 1201088157   | E16A06006M100   |
| 1201088158   | E16A06006M120   |
| 1201088185   | E16A06006M140   |
| 1201088159   | E16A06006M150   |
| 1201088160   | E16A06006M180   |
| 1201088161   | E16A06006M200   |
| 1201088162   | E16A06006M250   |
| 1201088163   | E16A06006M300   |
| 1201080681   | E16A06006M350   |
| 1201088164   | E16A06006M400   |
| 1201080682   | E16A06006M450   |
| 1201088165   | E16A06006M500   |
| 1201080683   | E16A06006M550   |
| 1201080779   | E16A06006M650   |
| 1201080780   | E16A06006M700   |
| 1201080781   | E16A06006M750   |
| 1201080782   | E16A06006M800   |

Ⓓ

PART NUMBER LEGEND  
E16A06006MXXX

↓  
LENGTH  
M010 - 1 Meters  
M050 - 5 Meters  
M200 - 20 Meters

|                                                                                                                                                                                                                     |                                                                                                                                               |       |        |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|--|----------------------------------------------------------------------------------------------------|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------|--|------------------------|----------|----------|
| FUNCTIONAL SYMBOLS<br><div><div><div><div><div></div></div><div>=0</div></div><div><div><div></div></div><div>=0</div></div><div><div><div></div></div><div>=0</div></div></div><div>DIVISIONAL SYMBOLS</div></div> | 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: UPDATED BORDER, ADDED NEW PNS, CLEANED UP COLORS                                 |  |  |  |  | <div><div><div>molex</div><div>M12 TO RJ45 CORDSET</div><div>4P MALE M12/RJ45 ST #24-2P BLUE TPE CAT5E</div></div></div> |  |                        |          |          |
|                                                                                                                                                                                                                     | INCH                                                                                                                                          |       | 1:1    |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |
|                                                                                                                                                                                                                     | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |       |        |  | EC NO: 759239<br>DRWN: HENRYB1 2023/08/09<br>CHK'D: RSTONE 2023/08/15<br>APPR: BWOODMAN 2023/08/15 |  |  |  |  | PRODUCT CUSTOMER DRAWING                                                                                                 |  |                        |          |          |
|                                                                                                                                                                                                                     |                                                                                                                                               | mm    | INCH   |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |
|                                                                                                                                                                                                                     | 4 PLACES                                                                                                                                      | ±---- | ±----  |  | INITIAL REVISION:<br>DRWN: BARDEN 2013/02/15<br>APPR: JFMURPHY 2013/04/18                          |  |  |  |  | DOCUMENT NUMBER                                                                                                          |  | DOC TYPE               | DOC PART | REVISION |
|                                                                                                                                                                                                                     | 3 PLACES                                                                                                                                      | ±---- | ±0.005 |  |                                                                                                    |  |  |  |  | SD-120108-053                                                                                                            |  | PSD                    | 001      | D        |
|                                                                                                                                                                                                                     | 2 PLACES                                                                                                                                      | ±0.13 | ±0.01  |  | MATERIAL NUMBER<br>SEE PN LEGEND                                                                   |  |  |  |  | CUSTOMER<br>GENERAL MARKET                                                                                               |  | SHEET NUMBER<br>2 OF 2 |          |          |
|                                                                                                                                                                                                                     | 1 PLACE                                                                                                                                       | ±0.25 | ±0.02  |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |
|                                                                                                                                                                                                                     | 0 PLACES                                                                                                                                      | ±---- | ±----  |  | THIRD ANGLE PROJECTION<br><div><div><div></div></div><div><div></div></div></div>                  |  |  |  |  | A-SIZE                                                                                                                   |  |                        |          |          |
| ANGULAR TOL ± 0.5 °                                                                                                                                                                                                 |                                                                                                                                               |       |        |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                                                                                                |                                                                                                                                               |       |        |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |
|                                                                                                                                                                                                                     |                                                                                                                                               |       |        |  |                                                                                                    |  |  |  |  |                                                                                                                          |  |                        |          |          |