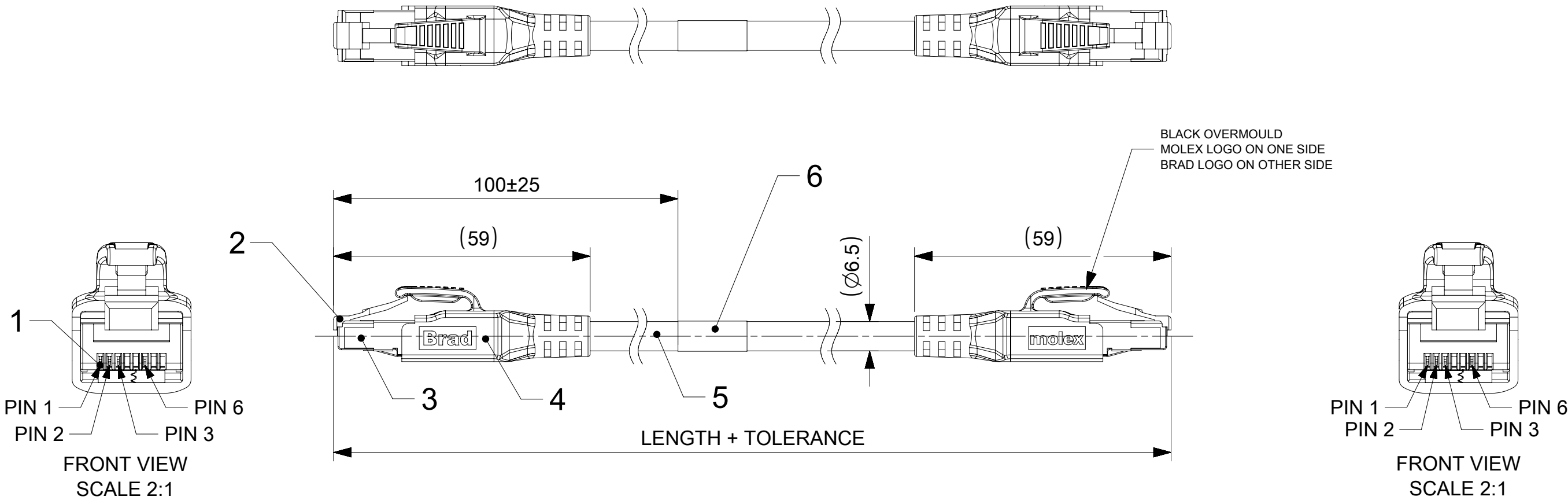
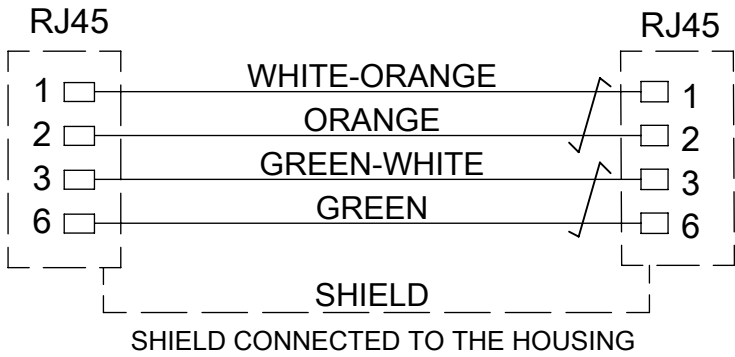


PLUG RJ45 STRAIGHT TO PLUG RJ45 STRAIGHT



WIRING DIAGRAM

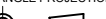


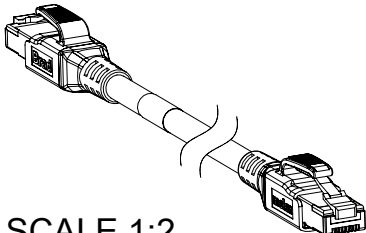
NOTES:

- 1. MATERIALS : SEE BOM TABLE
- 2. FINISHES: SEE BOM TABLE
- 3. ELECTRICAL DATA:  
MAX. VOLTAGE RATING 60 VDC  
MAX. CURRENT PER CONTACT 1.5 A
- 4. ENVIRONMENTAL PARAMETERS FOR CONNECTOR:  
STATIC OPERATING TEMP: -40°C to +85°C  
INDEX OF PROTECTION RJ45: IP20
- 5. FOR MORE INFORMATION SEE PRODUCT SPECIFICTION 1201080202 PS P00
- 6. TRANSMISSION CHARACTERISTICS ACCORDING TO ISO/IEC 11801 CATEGORY 5e  
PATCH CORD PROFINET TYPE C

BOM

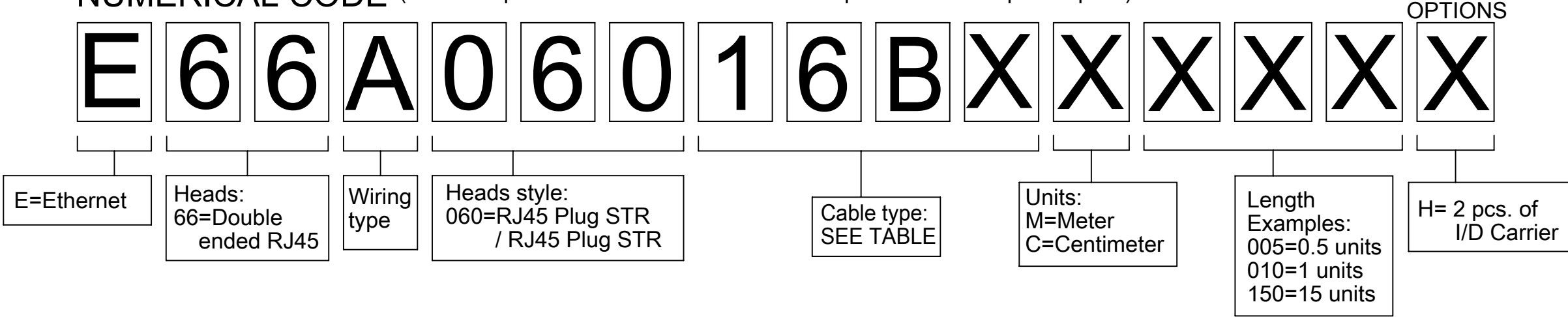
|      |         |                       |                 |                |
|------|---------|-----------------------|-----------------|----------------|
| 6    | 1       | LABEL                 | VINYL           | ---            |
| 5    | -       | CABLE                 | SEE SHEET 2     | ---            |
| 4    | -       | OVERMOULDING BLACK    | TPU             | ---            |
| 3    | 2       | SHIELD                | BRASS           | TIN            |
| 2    | 2       | PLUG RJ45 TRANSPARENT | POLYCARBONATE   | ---            |
| 1    | 8 or 16 | CONTACT RJ45 MALE     | PHOSPHOR BRONZE | SELECTIVE GOLD |
| ITEM | QTY.    | DESCRIPTION           | MATERIAL        | FINISH         |

|                                                                                                                                                                                           |  |                                                                                                                                               |  |         |  |                                                                                                                                                                                                      |  |                 |  |                |  |              |  |          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|----------------|--|--------------|--|----------|--|
| 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>FA</div><div>=</div><div>0</div></div><div><div>FE</div><div>=</div><div>0</div></div><div><div>FF</div><div>=</div><div>0</div></div></div> <div>DIVISIONAL SYMBOLS</div> |  | DIMENSION UNITS                                                                                                                               |  | SCALE   |  | CURRENT REV DESC:<br><br>EC NO: 718371<br>DRWN: MBLOESER2022/08/19<br>CHK'D: RSILLER2022/08/22<br>APPR: RSILLER2022/08/22<br><br>INITIAL REVISION:<br>DRWN: SSM2021/08/04<br>APPR: RSILLER2021/12/21 |  |                 |  |                |  |              |  |          |  |
|                                                                                                                                                                                           |  | mm                                                                                                                                            |  | 1:1     |  |                                                                                                                                                                                                      |  |                 |  |                |  |              |  |          |  |
|                                                                                                                                                                                           |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |         |  |                                                                                                                                                                                                      |  |                 |  |                |  |              |  |          |  |
|                                                                                                                                                                                           |  | ANGULAR TOL ± 1.0 °                                                                                                                           |  |         |  |                                                                                                                                                                                                      |  |                 |  |                |  |              |  |          |  |
|                                                                                                                                                                                           |  | 4 PLACES                                                                                                                                      |  | ±       |  | PRODUCT CUSTOMER DRAWING                                                                                                                                                                             |  |                 |  |                |  |              |  |          |  |
|                                                                                                                                                                                           |  | 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                                                                                                                                                                                               |  | DOCUMENT NUMBER |  | DOC TYPE       |  | DOC PART     |  | REVISION |  |
|                                                                                                                                                                                           |  |                                                          |  | A3-SIZE |  | 120108                                                                                                                                                                                               |  | 1201088967      |  | PSD            |  | 000          |  | A3       |  |
|                                                                                                                                                                                           |  |                                                                                                                                               |  |         |  |                                                                                                                                                                                                      |  | MATERIAL NUMBER |  | CUSTOMER       |  | SHEET NUMBER |  |          |  |
|                                                                                                                                                                                           |  |                                                                                                                                               |  |         |  |                                                                                                                                                                                                      |  | SEE PART LIST   |  | GENERAL MARKET |  | 1 OF 2       |  |          |  |



SCALE 1:2

NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request)



CABLE INFORMATION (for more information see Cable Data Sheet).

| CABLE TYPE | MOLEX PN   | CABLE O.D. | APPLICATION | CROSS SECTION | CABLE JACKET   | UL          | TEMP. RANGE STATIC BENDING RADIUS STATIC | CYCLES                                 | ADITIONAL INFORMATION | RJ45 MOLEX PN |
|------------|------------|------------|-------------|---------------|----------------|-------------|------------------------------------------|----------------------------------------|-----------------------|---------------|
| 16BK       | 1202098649 | 6.5mm      | -           | 24AWG         | PUR BLACK      | STYLE 21215 | -40°C to +80°C / min.6xO.D.              | 1M, min.10xO.D. / 2M min.20xO.D. @20°C | WSOR                  | 1301980179    |
| 16         | 1302110136 | 6.5mm      | -           | 24AWG         | TPU BASED TEAL | STYLE 21215 | -40°C to +80°C / min.6xO.D.              | 1M, min.10xO.D. / 2M min.20xO.D. @20°C | WSOR                  | 1301980179    |

PART LIST

| Part No.   | Engineering No. | Cable Length(m) |
|------------|-----------------|-----------------|
| 1201088967 | E66A06016BKM005 | 0,5m            |
| 1201088968 | E66A06016BKM010 | 1m              |
| 1201088969 | E66A06016BKM020 | 2m              |
| 1201088970 | E66A06016BKM030 | 3m              |
| 1201088971 | E66A06016BKM050 | 5m              |
| 1201088972 | E66A06016BKM100 | 10m             |
|            |                 |                 |
| 1201088532 | E66A06016M005   | 0.5m            |
| 1201088556 | E66A06016M003   | 0.3m            |
| 1201088557 | E66A06016M006   | 0.6m            |
| 1201088474 | E66A06016M010   | 1m              |
| 1201088475 | E66A06016M020   | 2m              |
| 1201088476 | E66A06016M030   | 3m              |
| 1201088477 | E66A06016M040   | 4m              |
| 1201088478 | E66A06016M050   | 5m              |
| 1201088479 | E66A06016M060   | 6m              |
| 1201088480 | E66A06016M080   | 8m              |
| 1201088481 | E66A06016M090   | 9m              |
| 1201088482 | E66A06016M100   | 10m             |

| Part No.   | Engineering No. | Cable Length |
|------------|-----------------|--------------|
| 1201088483 | E66A06016M120   | 12m          |
| 1201088484 | E66A06016M150   | 15m          |
| 1201088485 | E66A06016M200   | 20m          |
| 1201088486 | E66A06016M250   | 25m          |
| 1201088487 | E66A06016M300   | 30m          |
| 1201088488 | E66A06016M350   | 35m          |
| 1201088489 | E66A06016M400   | 40m          |
| 1201088490 | E66A06016M450   | 45m          |
| 1201088491 | E66A06016M500   | 50m          |
| 1201088492 | E66A06016M550   | 55m          |
| 1201088493 | E66A06016M600   | 60m          |
| 1201088494 | E66A06016M650   | 65m          |
| 1201088495 | E66A06016M700   | 70m          |
| 1201088496 | E66A06016M750   | 75m          |
| 1201088497 | E66A06016M800   | 80m          |
| 1201088528 | E66A06016M850   | 85m          |
| 1201088529 | E66A06016M900   | 90m          |

TABLE 2

| CABLE LENGTH TOLERANCES |            |
|-------------------------|------------|
| LENGTH                  | TOLERANCE  |
| 0m-1m                   | +40 mm     |
| >1m-5m                  | +60 mm     |
| >5m-10m                 | +80 mm     |
| >10m-20m                | +140 mm    |
| >20m-30m                | +160 mm    |
| >30m                    | +1% length |

| 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          |
| = 0                    | mm                                                                                                                                            | 1:1            |
| = 0                    | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                |
| = 0                    | ANGULAR TOL                                                                                                                                   | ± 1.0 °        |
| DIVISIONAL SYMBOLS     | 4 PLACES                                                                                                                                      | ±              |
|                        | 3 PLACES                                                                                                                                      | ±              |
|                        | 2 PLACES                                                                                                                                      | ± 0.05         |
|                        | 1 PLACE                                                                                                                                       | ± 0.3          |
|                        | 0 PLACES                                                                                                                                      | ± 0.5          |
|                        | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |                |
| CURRENT REV DESC:      |                                                                                                                                               |                |
| EC NO: 718371          |                                                                                                                                               |                |
| DRWN: MBLOESER         |                                                                                                                                               | 2022/08/19     |
| CHK'D: RSILLER         |                                                                                                                                               | 2022/08/22     |
| APPR: RSILLER          |                                                                                                                                               | 2022/08/22     |
| INITIAL REVISION:      |                                                                                                                                               |                |
| DRWN: SSM              |                                                                                                                                               | 2021/08/04     |
| APPR: RSILLER          |                                                                                                                                               | 2021/12/21     |
| THIRD ANGLE PROJECTION |                                                                                                                                               |                |
| DRAWING                |                                                                                                                                               | A3-SIZE        |
| SERIES                 |                                                                                                                                               | 120108         |
| DOCUMENT NUMBER        |                                                                                                                                               | 1201088967     |
| DOC TYPE               |                                                                                                                                               | PSD            |
| DOC PART               |                                                                                                                                               | 000            |
| REVISION               |                                                                                                                                               | A3             |
| MATERIAL NUMBER        |                                                                                                                                               | SEE PART LIST  |
| CUSTOMER               |                                                                                                                                               | GENERAL MARKET |
| SHEET NUMBER           |                                                                                                                                               | 2 OF 2         |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/08/22 | 07:20:41 |
|-----------------|----|--------------|------------|----------|

F

E

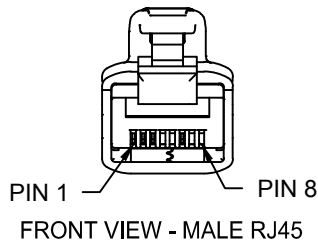
D

C

B

A

| MATERIAL NUMBER | ENG. NUMBER   | FINISHED LENGTH [M] |
|-----------------|---------------|---------------------|
| 1201088474      | E66A06016M010 | 1.0 M               |
| 1201088486      | E66A06016M250 | 25.0 M              |



NOTES:

STANDARDS:  
PROTECTION: IP20

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

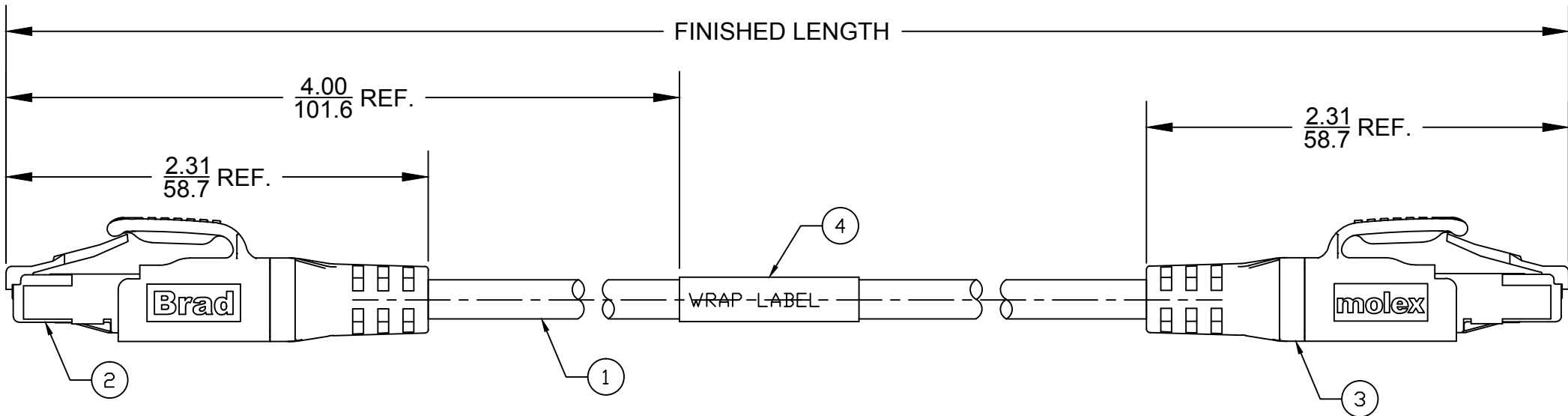
ELECTRICAL  
ACCORDING TO CAT5e  
VOLTAGE RATING: 125V AC/DC  
AMPERAGE: 1.5A

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 TAPE            | ORANGE-ORANGE-WHITE & GREEN, GREEN-WHITE |
|                           | 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    |

| 4    | LABEL         | VINYL         | BLACK/YELLOW |
|------|---------------|---------------|--------------|
| 3    | RJ45 OVERMOLD | TPU           | BLACK        |
| 2    | RJ45 PLUG     | POLYCARBONATE | CLEAR        |
| 1    | CABLE         | TPU           | TEAL         |
| ITEM | DESCRIPTION   | MATERIAL      | FINISH       |



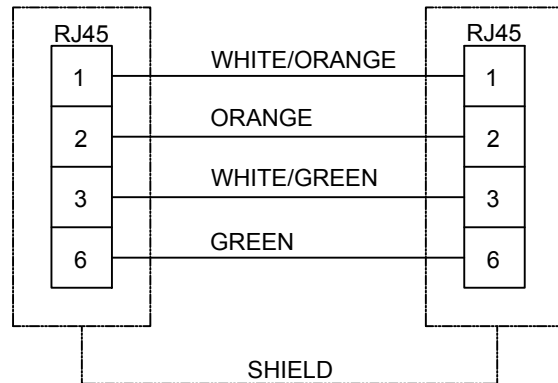
PART MATRIX

CABLE TYPE  
24 AWG TPU-TEAL

E66A06016M005

LENGTH  
M005 = 0.5M  
M050 = 5M  
M250 = 25M

| CABLE LENGTH TOLERANCES  |                        |              |
|--------------------------|------------------------|--------------|
| >.3M [1FT]:              | +19mm-0                | [+.75in-0]   |
| .3 - .9M [1 - 3FT]:      | +44.5mm-0              | [+1.75in-0]  |
| .9 - 1.8M [3 - 6FT]:     | +55.6mm-0              | [+2.19in-0]  |
| 1.8 - 3.7M [6 - 12FT]:   | +88.9mm-0              | [+3.50in-0]  |
| 3.7 - 7.3M [12 - 24FT]:  | +165.1mm-0             | [+6.50in-0]  |
| 7.3-14.6M [24 - 48FT]:   | +317.5mm-0             | [+12.50in-0] |
| 14.6 - 30.5M [48-100FT]: | +622.3mm-0             | [+24.50in-0] |
| OVER 30M [100FT]         | +2% OF FINISHED LENGTH |              |



WIRING DIAGRAM

|                                                                                                                                   |             |                                                   |                                                            |      |      |                                                                                                                                  |                    |                                                               |                      |                        |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|------------------------------------------------------------|------|------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------|----------------------|------------------------|--|--|--|
| ADD TOLERANCE BLOCK<br>EC NO: IPG2019-0328<br>DRWN: MZIELINS 2019/01/10<br>CHKD: CCHRASKT 2019/01/10<br>APPR: BWOODMAN 2015/06/03 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽C=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |      |      | DIMENSION STYLE<br>IN/MM                                                                                                         |                    | SCALE<br>NTS                                                  | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION |  |  |  |
|                                                                                                                                   |             |                                                   |                                                            | mm   | INCH | DRAWN BY<br>MZIELINS                                                                                                             | DATE<br>2015/05/05 | TITLE<br>ETHERNET<br>MALE RJ45/RJ45<br>#24-2TP TEAL PUR CAT5E |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   | 4 PLACES                                                   | ±--- | ±--- | CHECKED BY<br>BARDEN                                                                                                             | DATE<br>2015/06/04 |                                                               |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   | 3 PLACES                                                   | ±--- | ±--- | APPROVED BY<br>BWOODMAN                                                                                                          | DATE<br>2015/06/03 |                                                               |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   | 2 PLACES                                                   | ±--- | ±--- | molex MOLEX INCORPORATED                                                                                                         |                    |                                                               |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   | 1 PLACE                                                    | ±--- | ±--- |                                                                                                                                  |                    | DOCUMENT NO.<br>SD-120108-081                                 |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   | ANGULAR ±---°                                              |      |      | MATERIAL NO.<br>SEE PART MATRIX                                                                                                  |                    | SHEET NO.<br>1 OF 1                                           |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |      |      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                               |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   |                                                            |      |      |                                                                                                                                  |                    |                                                               |                      |                        |  |  |  |
|                                                                                                                                   |             |                                                   |                                                            |      |      |                                                                                                                                  |                    |                                                               |                      |                        |  |  |  |
| C                                                                                                                                 | REV         |                                                   |                                                            |      |      |                                                                                                                                  |                    |                                                               |                      |                        |  |  |  |