

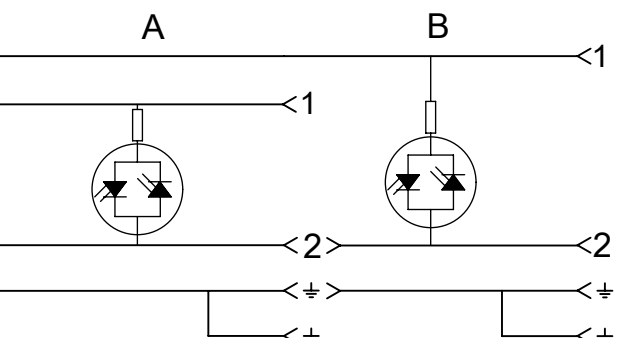
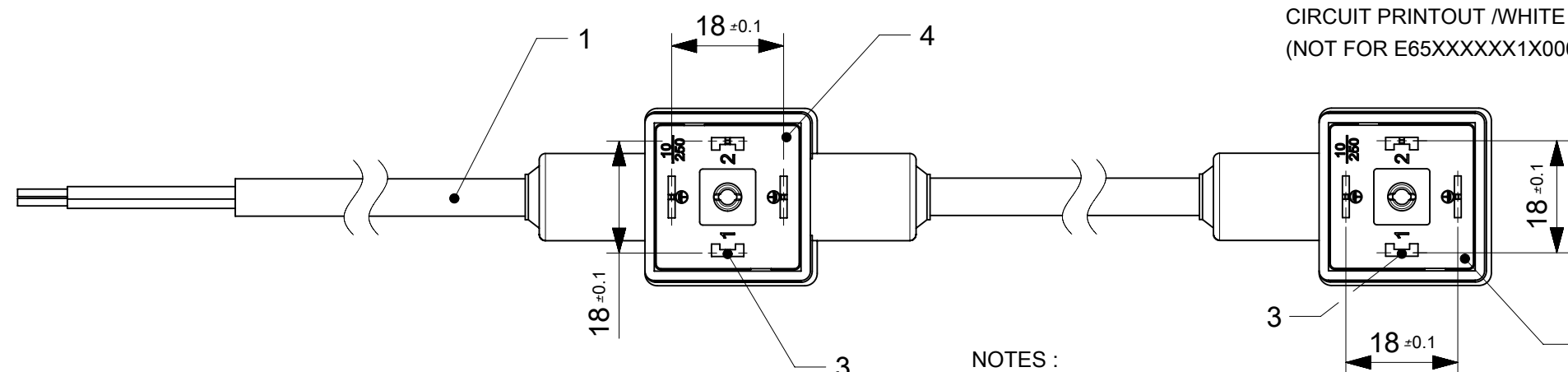


Diagram illustrating a quantum circuit with two qubits, A and B. The circuit consists of four gates: a CNOT gate with control on A and target on B, followed by a CNOT gate with control on B and target on A, then another CNOT gate with control on A and target on B, and finally a CNOT gate with control on B and target on A. The output of the circuit shows qubit A with a value of 1 and qubit B with a value of 1.

Technical drawing of a cable assembly with two connectors, A and B. The drawing shows a cable with "TINNED ENDS" and dimensions for length (L, L1), diameters (8±1, 35±3), and connector dimensions (60.6, 44, 28). Callouts 1-6 identify specific parts. A note specifies "IN CASE OF E65XXXXXXXXX1X000, WITHOUT LED".



IN CASE OF E65XXXXXXXX1X000,  
WITHOUT LED

CIRCUIT PRINTOUT /WHITE  
(NOT FOR E65XXXXXX1X000)

## BILL OF MATERIALS

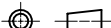
|      |      |                     |              |        |
|------|------|---------------------|--------------|--------|
| 12   | 0/2  | INTEGRATED GASKET   | NBR          | -      |
| 11   | 0/2  | WASHER              | NBR          | -      |
| 10   | 0/2  | SCREW M3x27         | STEEL        | ZINC   |
| 9    | 0/2  | FLAT GASKET         | NBR/SILICONE | -      |
| 8    | 0/2  | PROFILE GASKET      | NBR/SILICONE | -      |
| 7    | 0/2  | SCREW M3x25         | STEEL        | ZINC   |
| 6    | 2    | LABEL WHITE         | ABS          | -      |
| 5    | 0/2  | PCB                 | -            | -      |
| 4    | 2    | INSERT DIN A        | PA66+25%G V0 | -      |
| 3    | 8    | CONTACT DIN         | BRASS        | SILVER |
| 2    | -    | MOULDING MATERIAL   | PP           | -      |
| 1    | -    | CABLE (SEE SHEET 3) | -            | -      |
| ITEM | QTY. | DESCRIPTION         | MATERIAL     | FINISH |

NOTES :

ELECTRICAL - CURRENT : MAX. 5.0A  
CONTACT RESISTANCE : ≤15 milliohms MAX.  
INSULATION RESISTANCE : 100 Megaohms MIN.

PHYSICAL - OPERATING TEMPERATURE WITH :  
NITRILE RUBBER (NBR) GASKET : -40°C TO +90°C  
LIVE CONTACT DISTANCE :  
FORM A - 18.00mm

ENVIRONMENTAL - IP65 SEALING PROTECTION(FIXING SCREW)

|                                                                                                                                               |  |                                                                                       |  |                                                                       |  |        |  |                                                                                           |  |                |          |                          |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|--------|--|-------------------------------------------------------------------------------------------|--|----------------|----------|--------------------------|--|
| 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: OBSOLETE PART NUMBERS                               |  |        |  | <div>molex</div>                                                                          |  |                |          |                          |  |
| mm                                                                                                                                            |  | 1:1                                                                                   |  |                                                                       |  |        |  |                                                                                           |  |                |          |                          |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |                                                                                       |  |                                                                       |  |        |  |                                                                                           |  |                |          |                          |  |
| ANGULAR TOL ± 1.0 °                                                                                                                           |  |                                                                                       |  |                                                                       |  |        |  |                                                                                           |  |                |          |                          |  |
| 4 PLACES ±                                                                                                                                    |  |                                                                                       |  |                                                                       |  |        |  | EC NO: 650268<br>DRWN: SUGEEB 2020/10/29<br>CHK'D: GGA 2020/12/18<br>APPR: GGA 2020/12/18 |  |                |          | STANDARD E653 DIN FORM A |  |
| 3 PLACES ±                                                                                                                                    |  |                                                                                       |  |                                                                       |  |        |  |                                                                                           |  |                |          |                          |  |
| 2 PLACES ± 0.05                                                                                                                               |  |                                                                                       |  |                                                                       |  |        |  |                                                                                           |  |                |          |                          |  |
| 1 PLACE ± 0.3                                                                                                                                 |  |                                                                                       |  | INITIAL REVISION:<br>DRWN: SSM 2020/07/31<br>APPR: RSILLER 2020/09/04 |  |        |  | DOCUMENT NUMBER                                                                           |  | DOC TYPE       | DOC PART | REVISION                 |  |
| 0 PLACES ± 0.5                                                                                                                                |  |                                                                                       |  |                                                                       |  |        |  | 1210550038                                                                                |  | PSD            | 000      | A1                       |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  | THIRD ANGLE PROJECTION                                                                |  |                                                                       |  |        |  | DRAWING                                                                                   |  | SERIES         |          | MATERIAL NUMBER          |  |
|                                                                                                                                               |  |  |  | A3-SIZE                                                               |  | 121055 |  | SEE SHEET 4                                                                               |  | GENERAL MARKET |          | 1 OF 4                   |  |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E | 6 | 5 | 3 | X | X | X | X | X | X | 1 | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Type of Gasket and Screw:</p> <p>1 = NBR Profile Gasket + Fixing Screw M3x25mm</p> <p>2 = NBR Flat Gasket + Fixing Screw M3x25mm</p> <p>3 = Silicone Profile Gasket + Fixing Screw M3x25mm</p> <p>4 = Silicone Flat Gasket + Fixing Screw M3x25mm</p> <p>P = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm Assembled on Connector</p> <p>R = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm NOT Assembled on Connector</p> <p>T = NBR Profile Gasket + Fixing Screw with Washer M3x27mm</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

G= 12V  
H= 24V  
K= 48V  
L= 115V  
M= 230V

YELLOW LED

FORMAT: master-tb-prod-A3  
REVISION: J  
DATE: 2020/01/14

TABLE 1 - CABLES

| mPm | Code | Wires | Cross Section        | Material             | Colour       | Diameter $\varnothing$ |
|-----|------|-------|----------------------|----------------------|--------------|------------------------|
| I   | 0    | 3     | 1 mm <sup>2</sup>    | PVC CEI 2022 II O.R. | Grey RAL7035 | 6.4±0.2 mm             |
| A   | 2    | 2     | 20 AWG               | PVC CSA/UL 2661      | Black        | 5.4±0.2 mm             |
| A   | 2    | 3     | 20 AWG               | PVC CSA/UL 2661      | Black        | 5.6±0.2 mm             |
| A   | 2    | 4     | 20 AWG               | PVC CSA/UL 2661      | Black        | 6.2±0.25 mm            |
| A   | 2    | 5     | 20 AWG               | PVC CSA/UL 2661      | Black        | 7±0.2 mm               |
| B   | 2    | 2     | 20 AWG               | PUR CSA/UL 20668     | Black        | 5.6±0.2 mm             |
| B   | 2    | 3     | 20 AWG               | PUR CSA/UL 20668     | Black        | 5.6±0.2 mm             |
| B   | 2    | 4     | 20 AWG               | PUR CSA/UL 20668     | Black        | 6.2±0.2 mm             |
| B   | 2    | 5     | 20 AWG               | PUR CSA/UL 20668     | Black        | 7±0.2 mm               |
| D   | 2    | 3     | 0.5 mm <sup>2</sup>  | PVC TI2 CEI 20-20    | Grey         | 5.5±0.2 mm             |
| F   | 2    | 3     | 0.5 mm <sup>2</sup>  | CNEOMO               | Grey RAL7000 | 5.5±0.2 mm             |
| I   | 2    | 2     | 0.5 mm <sup>2</sup>  | PVC CEI 2022 II O.R. | Grey RAL7035 | 5.5+0.3/-0 mm          |
| I   | 2    | 3     | 0.5 mm <sup>2</sup>  | PVC CEI 2022 II O.R. | Grey RAL7035 | 5.5+0.3/-0 mm          |
| I   | 2    | 4     | 0.5 mm <sup>2</sup>  | PVC CEI 2022 II O.R. | Grey RAL7035 | 6.5±0.2 mm             |
| I   | 2    | 5     | 0.5 mm <sup>2</sup>  | PVC CEI 2022 II O.R. | Grey RAL7035 | 7±0.2 mm               |
| N   | 2    | 2     | 0.5 mm <sup>2</sup>  | PVCH03               | Black        | 5.2±0.2 mm             |
| N   | 2    | 3     | 0.5 mm <sup>2</sup>  | PVCH03               | Black        | 5.5±0.2 mm             |
| N   | 2    | 4     | 0.5 mm <sup>2</sup>  | PVCH03               | Black        | 6.9 mm max             |
| P   | 2    | 2     | 0.5 mm <sup>2</sup>  | PUR-BLEND            | Black        | 5.5±0.2 mm             |
| P   | 2    | 3     | 0.5 mm <sup>2</sup>  | PUR-BLEND            | Black        | 5.5+0.3/-0 mm          |
| P   | 2    | 4     | 0.5 mm <sup>2</sup>  | PUR-BLEND            | Black        | 6.5±0.2 mm             |
| P   | 2    | 5     | 0.5 mm <sup>2</sup>  | PUR-BLEND            | Black        | 7+0.3/-0.1 mm          |
| A   | 3    | 2     | 18 AWG               | PVC CSA/UL 2661      | Black        | 6.5±0.25 mm            |
| A   | 3    | 3     | 18 AWG               | PVC CSA/UL 2661      | Black        | 6.5±0.25 mm            |
| A   | 3    | 4     | 18 AWG               | PVC CSA/UL 2661      | Black        | 7±0.3 mm               |
| A   | 3    | 5     | 18 AWG               | PVC CSA/UL 2661      | Black        | 7.8±0.25 mm            |
| B   | 3    | 2     | 18 AWG               | PUR CSA/UL 20668     | Black        | 6.8±0.2 mm             |
| B   | 3    | 3     | 18 AWG               | PUR CSA/UL 20668     | Black        | 6.5±0.2 mm             |
| B   | 3    | 4     | 18 AWG               | PUR CSA/UL 20668     | Black        | 7±0.2 mm               |
| B   | 3    | 5     | 18 AWG               | PUR CSA/UL 20668     | Black        | 7.8±0.2 mm             |
| D   | 3    | 3     | 0.75 mm <sup>2</sup> | PVC TI2 CEI 20-20    | Grey         | 6.5±0.2 mm             |
| D   | 3    | 4     | 0.75 mm <sup>2</sup> | PVC TI2 CEI 20-20    | Grey         | 7.1±0.2 mm             |
| I   | 3    | 2     | 0.75 mm <sup>2</sup> | PVC CEI 2022 II O.R. | Grey RAL7001 | 5.5±0.2 mm             |
| I   | 3    | 3     | 0.75 mm <sup>2</sup> | PVC CEI 2022 II O.R. | Grey RAL7035 | 6±0.2 mm               |
| I   | 3    | 4     | 0.75 mm <sup>2</sup> | PVC CEI 2022 II O.R. | Grey RAL7035 | 7±0.2 mm               |
| N   | 3    | 2     | 0.75 mm <sup>2</sup> | PVCH05               | Black        | 6.2±0.2 mm             |
| N   | 3    | 3     | 0.75 mm <sup>2</sup> | PVCH05               | Black        | 6.5±0.2 mm             |
| N   | 3    | 4     | 0.75 mm <sup>2</sup> | PVCH05               | Black        | 7.1±0.2 mm             |
| N   | 3    | 5     | 0.75 mm <sup>2</sup> | PVCH05               | Black        | 8.0+0.2/-0 mm          |
| P   | 3    | 2     | 0.75 mm <sup>2</sup> | PUR-BLEND            | Black        | 6.5±0.2 mm             |

| mPm | Code | Wires | Cross Section        | Material             | Colour       | Diameter $\varnothing$ |
|-----|------|-------|----------------------|----------------------|--------------|------------------------|
| P   | 3    | 3     | 0.75 mm <sup>2</sup> | PUR-BLEND            | Black        | 6.5±0.2 mm             |
| P   | 3    | 4     | 0.75 mm <sup>2</sup> | PUR-BLEND            | Black        | 7±0.2 mm               |
| R   | 3    | 3     | 0.75 mm <sup>2</sup> | TPR HAL. FREE        | Black        | 6.5±0.2 mm             |
| T   | 3    | 3     | 0.75 mm <sup>2</sup> | PUR CSA/UL           | Yellow       | 6.5±0.2 mm             |
| Y   | 3    | 3     | 0.75 mm <sup>2</sup> | SIL/0300             | Red          | 6.5±0.2 mm             |
| F   | 4    | 3     | 1 mm <sup>2</sup>    | CNEOMO               | Grey RAL7000 | 7.1+0.2/-0 mm          |
| F   | 4    | 4     | 1 mm <sup>2</sup>    | CNEOMO               | Grey RAL7000 | 7.1+0.2/-0 mm          |
| I   | 4    | 2     | 1 mm <sup>2</sup>    | PVC CEI 2022 II O.R. | Grey RAL7035 | 7.1+0.2/-0 mm          |
| I   | 4    | 3     | 1 mm <sup>2</sup>    | PVC CEI 2022 II O.R. | Grey RAL7035 | 7.1+0.2/-0 mm          |
| N   | 4    | 2     | 1 mm <sup>2</sup>    | PVCH05               | Black        | 6.5±0.2 mm             |
| N   | 4    | 3     | 1 mm <sup>2</sup>    | PVCH05               | Black        | 6.9±0.2 mm             |
| R   | 4    | 3     | 1 mm <sup>2</sup>    | TPR HAL. FREE        | Black        | 7.1±0.2 mm             |
| N   | 5    | 3     | 1.5 mm <sup>2</sup>  | PVCH05               | Black        | 8.3+0.2/-0 mm          |
| I   | 6    | 2     | 0.35 mm <sup>2</sup> | PVC CEI 2022 II O.R. | Grey RAL7035 | 4.8±0.2 mm             |
| A   | 7    | 3     | 20 AWG               | PVC CSA/UL 2661      | Yellow       | 5.6±0.2 mm             |
| I   | 9    | 4     | 0.75 mm <sup>2</sup> | PVC CEI 2022 II O.R. | Grey RAL7035 | 7.3±0.2 mm             |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

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: OBSOLETE PART NUMBERS

EC NO: 650268

DRWN: SUGEEB

CHK'D: GGA

APPR: RSILLER

2020/10/29

2020/12/18

2020/12/18

2020/07/31

2020/09/04

STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1210550038

DOC TYPE

PSD

DOC PART

000

REVISION

A1

THIRD ANGLE PROJECTION

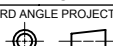
DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER



A3-SIZE

121055

SEE SHEET 4

GENERAL MARKET

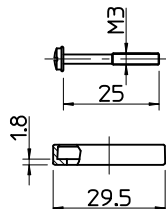
3 OF 4

|           |            |                 |        |            |                 |        |            |                 |   |
|-----------|------------|-----------------|--------|------------|-----------------|--------|------------|-----------------|---|
| 10        | 9          | 8               | 7      | 6          | 5               | 4      | 3          | 2               | 1 |
| PART LIST |            |                 |        |            |                 |        |            |                 |   |
| SL No.    | MOLEX P/N  | ENGINEERING No. | SL No. | MOLEX P/N  | ENGINEERING No. | SL No. | MOLEX P/N  | ENGINEERING No. |   |
| 1         | 1210503245 | E653P3NL201PC45 | 41     | 1210550169 | E653P3NA131PC3H | 81     | 1210550337 | E653B3AE1411C4H |   |
| 2         | 1210503246 | E653P3NK201PC45 | 42     | 1210550171 | E653P3NC131PC3B | 82     | 1210550338 | E653P3NL131PC44 |   |
| 3         | 1210503247 | E653P3NW201PC45 | 43     | 1210550174 | E653P3NL2011C4H | 83     | 1210550357 | E653A3AB1513C4H |   |
| 4         | 1210503402 | E653P3NL2011C4L | 44     | 1210550175 | E653P3NC131P000 | 84     | 1210550358 | E653P3NG131PC4H |   |
| 5         | 1210503500 | E653B2AE131PC4H | 45     | 1210550181 | E653P3NE1311S0H |        |            |                 |   |
| 6         | -          | -               | 46     | 1210550182 | E653P3NN1511C42 |        |            |                 |   |
| 7         | 1210503502 | E653B2AK131PC4H | 47     | 1210550186 | E653P3NC4014C4H |        |            |                 |   |
| 8         | -          | -               | 48     | 1210550189 | E653N3NE2211C42 |        |            |                 |   |
| 9         | 1210503504 | E653B2AL131PC4H | 49     | 1210550253 | E653N3NA5011000 |        |            |                 |   |
| 10        | -          | -               | 50     | 1210550255 | E653P3NB201PS0H |        |            |                 |   |
| 11        | 1210550038 | E653P3NE1311C4H | 51     | 1210550256 | E653P3NC151PS0H |        |            |                 |   |
| 12        | 1210550048 | E653P3NL2011000 | 52     | 1210550258 | E653P3NA131PC4H |        |            |                 |   |
| 13        | 1210550055 | E653N3NA3011000 | 53     | 1210550261 | E653P3NA1311C71 |        |            |                 |   |
| 14        | 1210550063 | E653I3NE1411C4H | 54     | 1210550266 | E653B3AL2111C4H |        |            |                 |   |
| 15        | 1210550065 | E653I3NL1411C4H | 55     | 1210550268 | E653P3NK2011C4H |        |            |                 |   |
| 16        | 1210550067 | E653I3NL1611C4H | 56     | 1210550269 | E653P3NB1311C31 |        |            |                 |   |
| 17        | 1210550079 | E653P3NC1312C3B | 57     | 1210550273 | E653P3NL5011C3H |        |            |                 |   |
| 18        | 1210550080 | E653B3AE1311C4H | 58     | 1210550277 | E653P3NU201PC4H |        |            |                 |   |
| 19        | 1210550082 | E653B3AE2111C4H | 59     | 1210550280 | E653P3NA151PS0H |        |            |                 |   |
| 20        | 1210550083 | E653N3NC8011000 | 60     | 1210550282 | E653P3NB131PC31 |        |            |                 |   |
| 21        | 1210550086 | E653P3NL1511C42 | 61     | 1210550283 | E653N3NS2811000 |        |            |                 |   |
| 22        | 1210550089 | E653P3NC1311000 | 62     | 1210550284 | E653N3NP2221C4H |        |            |                 |   |
| 23        | 1210550091 | E653P3NE1611C4H | 63     | 1210550285 | E653N3NP2221C4L |        |            |                 |   |
| 24        | 1210550098 | E653P3NE201TS0H | 64     | 1210550286 | E653N3NP221000  |        |            |                 |   |
| 25        | 1210550120 | E653N3NA2011A1B | 65     | 1210550287 | E653N3NP1321C4H |        |            |                 |   |
| 26        | 1210550125 | E653I3NK1411C4H | 66     | 1210550288 | E653N3NP1321C4L |        |            |                 |   |
| 27        | 1210550126 | E653P3NA1511C4G | 67     | 1210550289 | E653N3NP1321000 |        |            |                 |   |
| 28        | 1210550140 | E653B3NL1311C4H | 68     | 1210550290 | E653P3NL201PC4H |        |            |                 |   |
| 29        | 1210550142 | E653N3NM1311C4H | 69     | 1210550291 | E653P3NL251PC4H |        |            |                 |   |
| 30        | 1210550143 | E653P3NL201PS0B | 70     | 1210550298 | E653P3NL251PC4M |        |            |                 |   |
| 31        | 1210550147 | E653P3NL1511C4H | 71     | 1210550299 | E653N3NA201PA1B |        |            |                 |   |
| 32        | 1210550148 | E653P3NE201PS0B | 72     | 1210550311 | E653A3AA161PC31 |        |            |                 |   |
| 33        | 1210550149 | E653N3NL1361C4H | 73     | 1210550312 | E653A3AA161PC3A |        |            |                 |   |
| 34        | 1210550156 | E653P2NB3011C4B | 74     | 1210550313 | E653A3AA161PC3G |        |            |                 |   |
| 35        | 1210550157 | E653P3NE2011C4H | 75     | 1210550315 | E653P3NE501PC4H |        |            |                 |   |
| 36        | 1210550159 | E653P3NE1511C4H | 76     | 1210550317 | E653B3AK1311C4H |        |            |                 |   |
| 37        | 1210550161 | E653P3NA1311C4H | 77     | 1210550318 | E653B3AK2111C4H |        |            |                 |   |
| 38        | 1210550163 | E653P3NE5011C4H | 78     | 1210550322 | E653P3NC4014000 |        |            |                 |   |
| 39        | 1210550167 | E653P3NL1311S0H | 79     | 1210550324 | E653P3NK201PS0B |        |            |                 |   |
| 40        | 1210550168 | E653P3NA3211C4H | 80     | 1210550330 | E653P3NL131PC35 |        |            |                 |   |

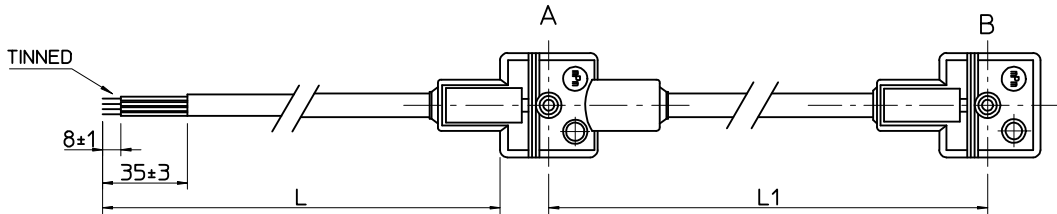
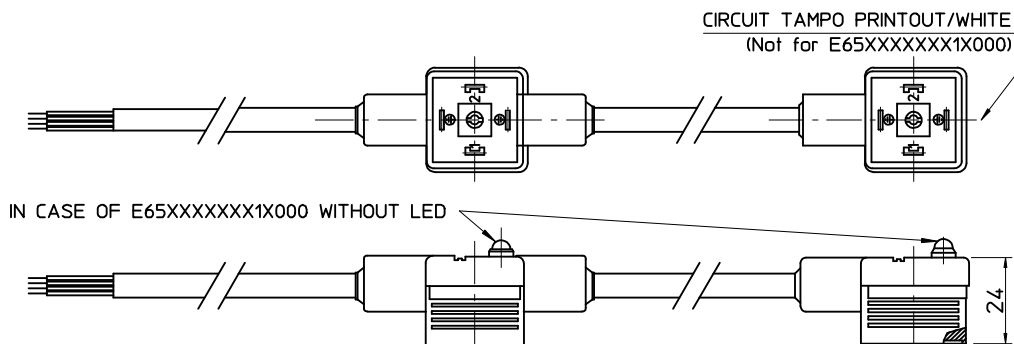
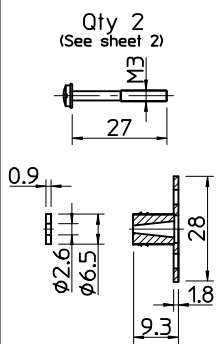
|                                                                                                                                               |  |        |  |                                                                                                                                                                                                                          |  |         |  |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|--------------|--|
| 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: OBSOLETE PART NUMBERS                                                                                                                                                                                  |  |         |  |              |  |
| mm                                                                                                                                            |  | 1:1    |  | <div>EC NO: 650268</div> <div>DRWN: SUGEEB2020/10/29</div> <div>CHK'D: GGA2020/12/18</div> <div>APPR: GGA2020/12/18</div> <div>INITIAL REVISION:</div> <div>DRWN: SSM2020/07/31</div> <div>APPR: RSILLER2020/09/04</div> |  |         |  |              |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |        |  |                                                                                                                                                                                                                          |  |         |  |              |  |
| ANGULAR TOL ± 1.0 °                                                                                                                           |  |        |  |                                                                                                                                                                                                                          |  |         |  |              |  |
| 4 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                                                          |  |         |  |              |  |
| 3 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                                                          |  |         |  |              |  |
| 2 PLACES                                                                                                                                      |  | ± 0.05 |  | DOCUMENT NUMBER1210550038DOC TYPEPSDDOC PART000REVISIONA1                                                                                                                                                                |  |         |  |              |  |
| 1 PLACE                                                                                                                                       |  | ± 0.3  |  |                                                                                                                                                                                                                          |  |         |  |              |  |
| 0 PLACES                                                                                                                                      |  | ± 0.5  |  |                                                                                                                                                                                                                          |  |         |  |              |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |  |        |  | THIRD ANGLE PROJECTION                                                                                                                                                                                                   |  | DRAWING |  | SHEET NUMBER |  |
|                                                                                                                                               |  |        |  |                                                                                                                                                                                                                          |  | A3-SIZE |  | 4 OF 4       |  |

|                          |  |    |              |            |          |
|--------------------------|--|----|--------------|------------|----------|
| DOCUMENT STATUS          |  | P1 | RELEASE DATE | 2020/12/18 | 11:23:38 |
| FORMAT: master-B-prod-A3 |  | 9  |              | 8          |          |
| REVISION: J              |  | 7  |              | 6          |          |
|                          |  | 5  |              | 4          |          |
|                          |  | 3  |              | 2          |          |
|                          |  | 1  |              |            |          |

Screw M3x25  
and Profile Gasket  
Qty 2  
(See sheet 2)

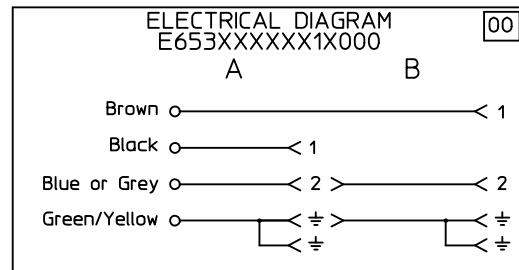
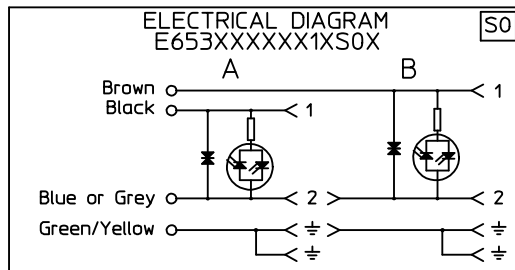
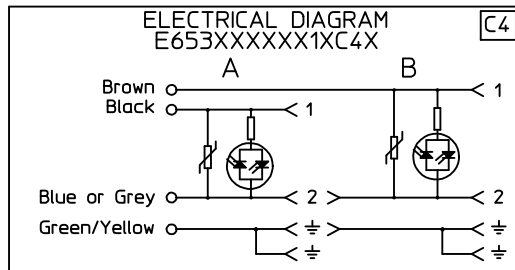
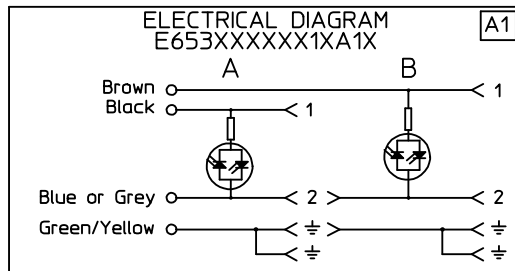
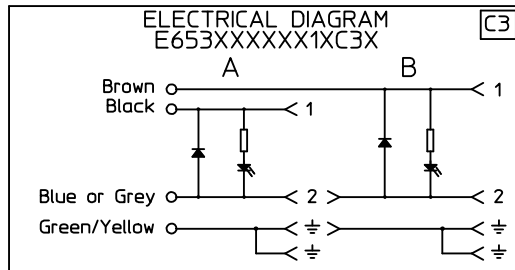


Screw M3x27  
with Grommet  
& Integrated Gasket  
Qty 2  
(See sheet 2)



| Table of lenght tolerances [mm] |                     |           |
|---------------------------------|---------------------|-----------|
| Over                            | Up to and including | Tolerance |
| 0                               | 1000                | ±20       |
| 1000                            | 3000                | ±30       |
| 3000                            | 5000                | ±40       |
| 5000                            | 10000               | ±50       |
| 10000                           | 15000               | ±100      |
| 15000                           | 20000               | ±150      |
| 20000                           |                     | ±L/100    |

NOTE: Ground on schematics does not apply to E652XXXXXX1XXXX



| DRAWING UPDATE |            | DESCRIPTION                                  | REV        |
|----------------|------------|----------------------------------------------|------------|
| EC NO:         | DATE       |                                              |            |
| IPG2013-1505   | 2013/03/28 | DRW: JMARZALEK<br>CHKD:<br>APPR: MIWASIECZKO | 2013/04/02 |
| JMARZALEK      |            |                                              |            |
|                |            |                                              |            |
|                |            |                                              |            |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |       |
|------------------------------------------------------|-------|
|                                                      |       |
| 4 PLACES                                             | ± --- |
| 3 PLACES                                             | ± --- |
| 2 PLACES                                             | ± --- |
| 1 PLACE                                              | ± --- |
| 0 PLACE                                              | ± --- |
| ANGULAR ± --- °                                      |       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |       |

| DIMENSION STYLE |            |
|-----------------|------------|
| MM ONLY         |            |
| DRAWN BY        | DATE       |
| JMARZALEK       | 2013/01/16 |
| CHECKED BY      | DATE       |
| MSZWAJKOWSKI    | 2013/01/16 |
| APPROVED BY     | DATE       |
| MIWASIECZKO     | 2013/02/12 |
| MATERIAL NO.    |            |
| SEE SHEET 2&3   |            |

|                                                                                                |                        |                                                                                                                 |
|------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE                                                                                          | DESIGN UNITS<br>METRIC |  FIRST ANGLE<br>PROJECTION |
| TITLE<br>E65XXXXXXXX1XXXX<br>DUAL DIN FORM A                                                   |                        |                                                                                                                 |
| <b>molex</b>                                                                                   |                        |                                                                                                                 |
| DOCUMENT NO.<br>SD-121055-001                                                                  |                        | SHEET NO.<br>1 OF 4                                                                                             |
| AINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                 |



F

TABLE 2 - CABLES

| Mollex PN  | mPm | Code | Wires | Cross Section | Material             | Color        | Diameter Ø     | DIN A-B | DIN C |
|------------|-----|------|-------|---------------|----------------------|--------------|----------------|---------|-------|
| 1210180080 | I   | 0    | 3     | 1 mm2         | PVC CEI 2022 II O.R. | Grey RAL7035 | 6,4±0,2 mm     | OK.     | -     |
| 1210180467 | A   | 2    | 2     | 20 AWG        | PVC CSA/UL 2661      | Black        | 5,4±0,2 mm     | OK.     | OK.   |
| 1210180128 | A   | 2    | 3     | 20 AWG        | PVC CSA/UL 2661      | Black        | 5,6±0,2 mm     | OK.     | OK.   |
| 1210180394 | A   | 2    | 4     | 20 AWG        | PVC CSA/UL 2661      | Black        | 6,2±0,25 mm    | OK.     | OK.   |
| -          | A   | 2    | 5     | 20 AWG        | PVC CSA/UL 2661      | Black        | 7±0,2 mm       | OK.     | -     |
| 1210180297 | B   | 2    | 2     | 20 AWG        | PUR CSA/UL 20668     | Black        | 5,6±0,2 mm     | OK.     | OK.   |
| 1210180126 | B   | 2    | 3     | 20 AWG        | PUR CSA/UL 20668     | Black        | 5,6±0,2 mm     | OK.     | OK.   |
| 1210180387 | B   | 2    | 4     | 20 AWG        | PUR CSA/UL 20668     | Black        | 6,2±0,2 mm     | OK.     | OK.   |
| -          | B   | 2    | 5     | 20 AWG        | PUR CSA/UL 20668     | Black        | 7±0,2 mm       | OK.     | -     |
| 1210180122 | D   | 2    | 3     | 0,5 mm2       | PVC TI2 CEI 20-20    | Grey         | 5,5±0,2 mm     | OK.     | OK.   |
| -          | F   | 2    | 3     | 0,5 mm2       | CNOMO                | Grey RAL7000 | 5,5±0,2 mm     | OK.     | OK.   |
| 1210180047 | I   | 2    | 2     | 0,5 mm2       | PVC CEI 2022 II O.R. | Grey RAL7035 | 5,5±0,3/-0 mm  | OK.     | OK.   |
| 1210180284 | I   | 2    | 3     | 0,5 mm2       | PVC CEI 2022 II O.R. | Grey RAL7035 | 5,6±0,3/-0 mm  | OK.     | OK.   |
| 1210180146 | I   | 2    | 4     | 0,5 mm2       | PVC CEI 2022 II O.R. | Grey RAL7035 | 6,5±0,2 mm     | OK.     | OK.   |
| 1210180177 | I   | 2    | 5     | 0,5 mm2       | PVC CEI 2022 II O.R. | Grey RAL7035 | 7±0,2 mm       | OK.     | -     |
| 1210180022 | N   | 2    | 2     | 0,5 mm2       | PVCH03               | Black        | 5,2±0,2 mm     | OK.     | OK.   |
| 1202092753 | N   | 2    | 3     | 0,5 mm2       | PVCH03               | Black        | 5,5±0,2 mm     | OK.     | OK.   |
| 1210180153 | N   | 2    | 4     | 0,5 mm2       | PVCH03               | Black        | 6,9 mm max     | OK.     | OK.   |
| 1210180046 | P   | 2    | 2     | 0,5 mm2       | PUR - BLEND          | Black        | 5,5±0,2 mm     | OK.     | OK.   |
| 1202092439 | P   | 2    | 3     | 0,5 mm2       | PUR - BLEND          | Black        | 5,5 +0,3/-0 mm | OK.     | OK.   |
| 1210180302 | P   | 2    | 4     | 0,5 mm2       | PUR - BLEND          | Black        | 6,5±0,2 mm     | OK.     | OK.   |
| 1202092215 | P   | 2    | 5     | 0,5 mm2       | PUR - BLEND          | Black        | 7±0,3/-0,1 mm  | OK.     | OK.   |
| 1210180409 | A   | 3    | 2     | 18 AWG        | PVC CSA/UL 2661      | Black        | 6,5±0,25 mm    | OK.     | -     |
| 1210180129 | A   | 3    | 3     | 18 AWG        | PVC CSA/UL 2661      | Black        | 6,5±0,25 mm    | OK.     | -     |
| 1210180159 | A   | 3    | 4     | 18 AWG        | PVC CSA/UL 2661      | Black        | 7±0,3 mm       | OK.     | -     |
| 1210180464 | A   | 3    | 5     | 18 AWG        | PVC CSA/UL 2661      | Black        | 7,8±0,25 mm    | OK.     | -     |
| 1210180351 | B   | 3    | 2     | 18 AWG        | PUR CSA/UL 20668     | Black        | 6,8±0,2 mm     | OK.     | -     |
| 1210180127 | B   | 3    | 3     | 18 AWG        | PUR CSA/UL 20668     | Black        | 6,5±0,2 mm     | OK.     | -     |
| 1210180160 | B   | 3    | 4     | 18 AWG        | PUR CSA/UL 20668     | Black        | 7±0,2 mm       | OK.     | -     |
| 1210180463 | B   | 3    | 5     | 18 AWG        | PUR CSA/UL 20668     | Black        | 7,8±0,2 mm     | OK.     | -     |
| 1210180073 | D   | 3    | 3     | 0,75 mm2      | PVC TI2 CEI 20-20    | Grey         | 6,5±0,2 mm     | OK.     | OK.   |
| 1210180145 | D   | 3    | 4     | 0,75 mm2      | PVC TI2 CEI 20-20    | Grey         | 7,1±0,2 mm     | OK.     | -     |
| 1202098206 | I   | 3    | 2     | 0,75 mm2      | PVC CEI 2022 II O.R. | Grey RAL7001 | 5,5±0,2 mm     | OK.     | -     |
| 1210180120 | I   | 3    | 3     | 0,75 mm2      | PVC CEI 2022 II O.R. | Grey RAL7035 | 6±0,2 mm       | OK.     | -     |
| 1210180143 | I   | 3    | 4     | 0,75 mm2      | PVC CEI 2022 II O.R. | Grey RAL7035 | 7±0,2 mm       | OK.     | -     |
| 1210180032 | N   | 3    | 2     | 0,75 mm2      | PVCH05               | Black        | 6,2±0,2 mm     | OK.     | -     |
| 1210180069 | N   | 3    | 3     | 0,75 mm2      | PVCH05               | Black        | 6,5±0,2 mm     | OK.     | -     |
| 1210180144 | N   | 3    | 4     | 0,75 mm2      | PVCH05               | Black        | 7,1±0,2 mm     | OK.     | -     |
| 1210180174 | N   | 3    | 5     | 0,75 mm2      | PVCH05               | Black        | 8,0±0,2-0 mm   | OK.     | -     |
| 1202094190 | P   | 3    | 2     | 0,75 mm2      | PUR - BLEND          | Black        | 6,5±0,2 mm     | OK.     | -     |

E

D

C

B

A

TABLE 2 - CABLES

| Mollex PN  | mPm | Code | Wires | Cross Section | Material             | Color        | Diameter Ø    | DIN A-B | DIN C |
|------------|-----|------|-------|---------------|----------------------|--------------|---------------|---------|-------|
| 1210180071 | P   | 3    | 3     | 0,75 mm2      | PUR - BLEND          | Black        | 6,5±0,2 mm    | OK.     | -     |
| 1210180152 | P   | 3    | 4     | 0,75 mm2      | PUR - BLEND          | Black        | 7±0,2 mm      | OK.     | -     |
| 1210180384 | R   | 3    | 3     | 0,75 mm2      | TPR HAL. FREE        | Black        | 6,5±0,2 mm    | OK.     | -     |
| 1210180094 | T   | 3    | 3     | 0,75 mm2      | PUR CSA/UL           | Yellow       | 6,5±0,2 mm    | OK.     | -     |
| 1210180309 | Y   | 3    | 3     | 0,75 mm2      | SIL/0300             | Red          | 6,5±0,2 mm    | OK.     | -     |
| 1210180081 | F   | 4    | 3     | 1 mm2         | CNOMO                | Grey RAL7000 | 7,1±0,2/-0 mm | OK.     | -     |
| -          | F   | 4    | 4     | 1 mm2         | CNOMO                | Grey RAL7000 | 7,1±0,2/-0 mm | OK.     | -     |
| 1210180042 | I   | 4    | 2     | 1 mm2         | PVC CEI 2022 II O.R. | Grey RAL7035 | 7,1±0,2/-0 mm | OK.     | -     |
| 1210180079 | I   | 4    | 3     | 1 mm2         | PVC CEI 2022 II O.R. | Grey RAL7035 | 7,1±0,2/-0 mm | OK.     | -     |
| 1210180036 | N   | 4    | 2     | 1 mm2         | PVCH05               | Black        | 6,5±0,2 mm    | OK.     | -     |
| 1210180082 | N   | 4    | 3     | 1 mm2         | PVCH05               | Black        | 6,9±0,2 mm    | OK.     | -     |
| 1210180117 | R   | 4    | 3     | 1 mm2         | TPR HAL. FREE        | Black        | 7,1±0,2 mm    | OK.     | -     |
| 1210180085 | N   | 5    | 3     | 1,5 mm2       | PVCH05               | Black        | 8,3±0,2/-0 mm | OK.     | -     |
| 1210180313 | I   | 6    | 2     | 0,35 mm2      | PVC CEI 2022 II O.R. | Grey RAL7035 | 4,8±0,2 mm    | OK.     | -     |
| -          | A   | 7    | 3     | 20 AWG        | PVC CSA/UL 2661      | Yellow       | 5,6±0,2 mm    | OK.     | OK.   |
| 1210180149 | I   | 9    | 4     | 0,75 mm2      | PVC CEI 2022 II O.R. | Grey RAL7035 | 7,3±0,2 mm    | OK.     | -     |

F

E

D

C

B

A

TABLE 1 - CABLES TYPE

| Code | Cable types | Features                                                                                                                        | Stranding                                                        |
|------|-------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| N    | PVC         | Application general purpose cable which has good resistance to water, but usually poor oil resistance.                          | 0,5 mm2 = 15 x 0,20<br>0,75 mm2 = 21 x 0,20<br>1 mm2 = 28 x 0,20 |
| I    | CEI         | Approved to IEC 332-2A, flame retardant and self extinguishing. Limited resistant to mineral oils.                              | 0,5 mm2 = 28 x 0,15<br>0,75 mm2 = 42 x 0,15<br>1 mm2 = 32 x 0,20 |
| P    | PUR         | Offer good resistance to oil and chemicals. Can swell when constantly immersed in water.                                        | 0,5 mm2 = 28 x 0,15<br>0,75 mm2 = 42 x 0,15<br>1 mm2 = 32 x 0,20 |
| A    | PVC CSA-UL  | Approved to CSA-UL 2661, application general purpose cable which has good resistance to water, but usually poor oil resistance. | 20 AWG = 32 x 0,15<br>18 AWG = 52 x 0,15                         |
| B    | PUR CSA-UL  | Approved to CSA-UL 20668, very good resistance to oil and chemicals.                                                            | 20 AWG = 32 x 0,15<br>18 AWG = 52 x 0,15                         |

DRAWING UPDATE  
EC NO: IPG2013-1505  
DRWN: JMARZALEK 2013/03/28  
CHKD:  
APPR: MIWASIECZKO 2013/04/02

DESCRIPTION

REV

QUALITY SYMBOLS

▽=0  
◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm    | INCH  |
|----------|-------|-------|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE  | ± --- | ± --- |
| 0 PLACE  | ± --- | ± --- |

ANGULAR ± --- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

|                            |                    |
|----------------------------|--------------------|
| DRAWN BY<br>JMARZALEK      | DATE<br>2013/01/16 |
| CHECKED BY<br>MSZWAJKOWSKI | DATE<br>2013/01/16 |
| APPROVED BY<br>MIWASIECZKO | DATE<br>2013/02/12 |

MATERIAL NO.

SEE SHEET 2&3

SIZE  
A3

SCALE  
1:1

DESIGN UNITS  
METRIC

FIRST ANGLE PROJECTION

TITLE  
E65XXXXXXXX1XXXX  
DUAL DIN FORM A

molex

SD-121055-001

DOCUMENT NO.

SHEET NO.  
3 OF 4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

