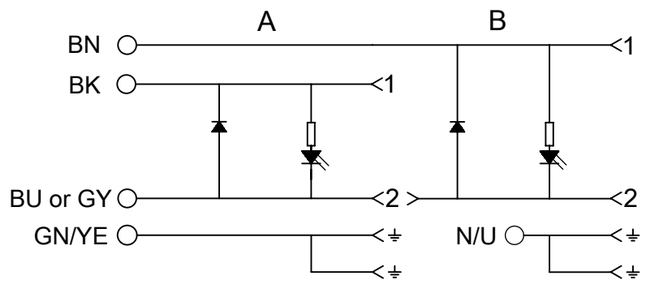
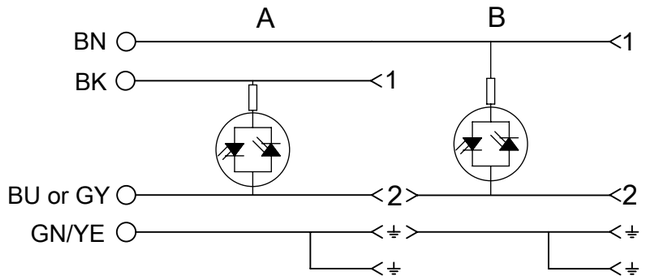
The Drawing Replaces SD-121055-001

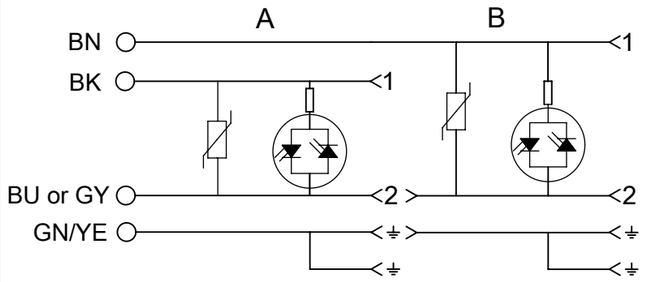
## ELECTRICAL DIAGRAM - C3



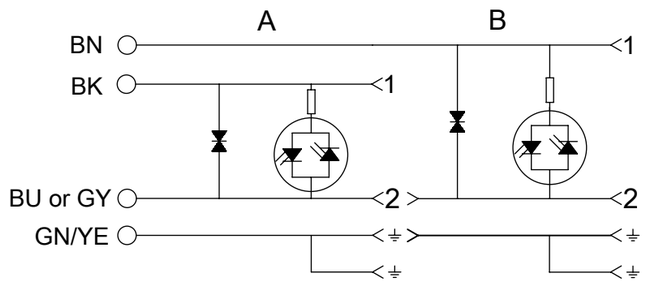

## ELECTRICAL DIAGRAM - A1



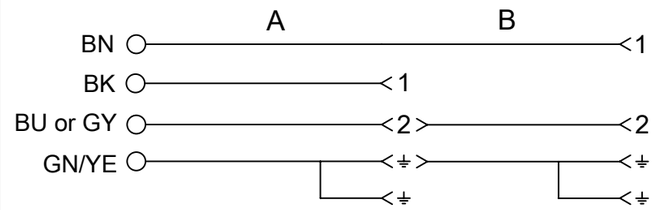

## ELECTRICAL DIAGRAM - C4



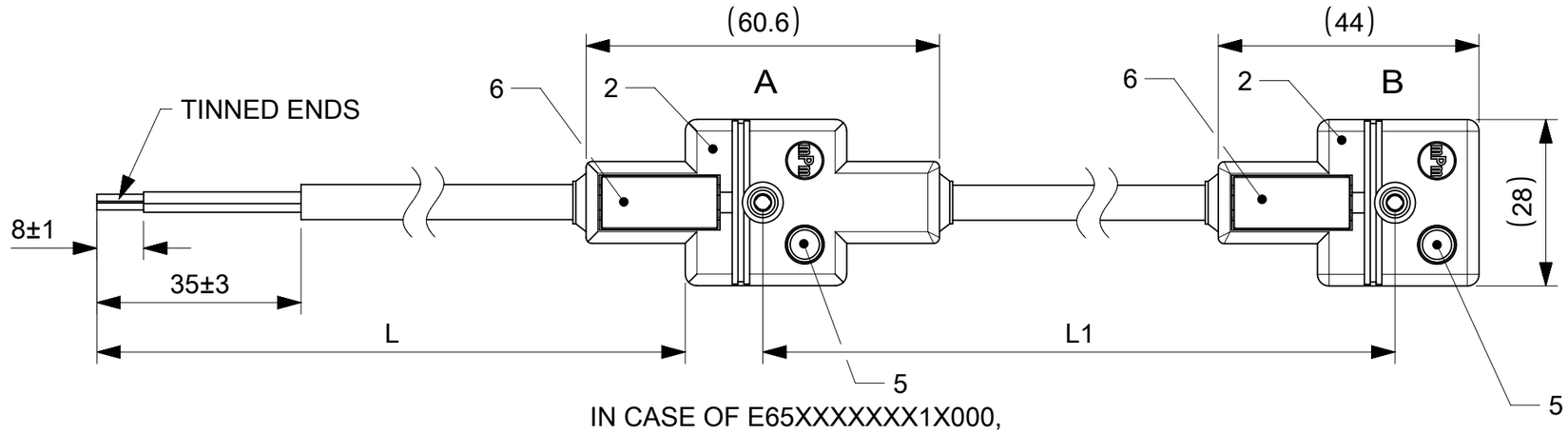

## ELECTRICAL DIAGRAM - S0



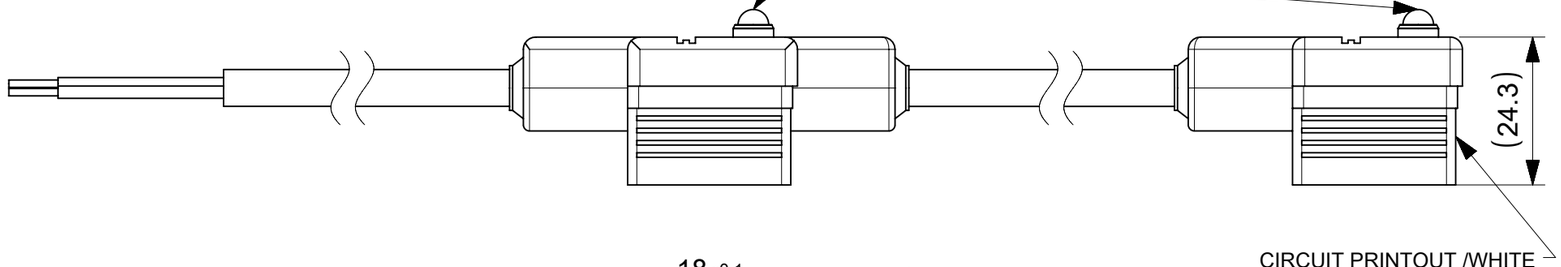

## ELECTRICAL DIAGRAM - 00



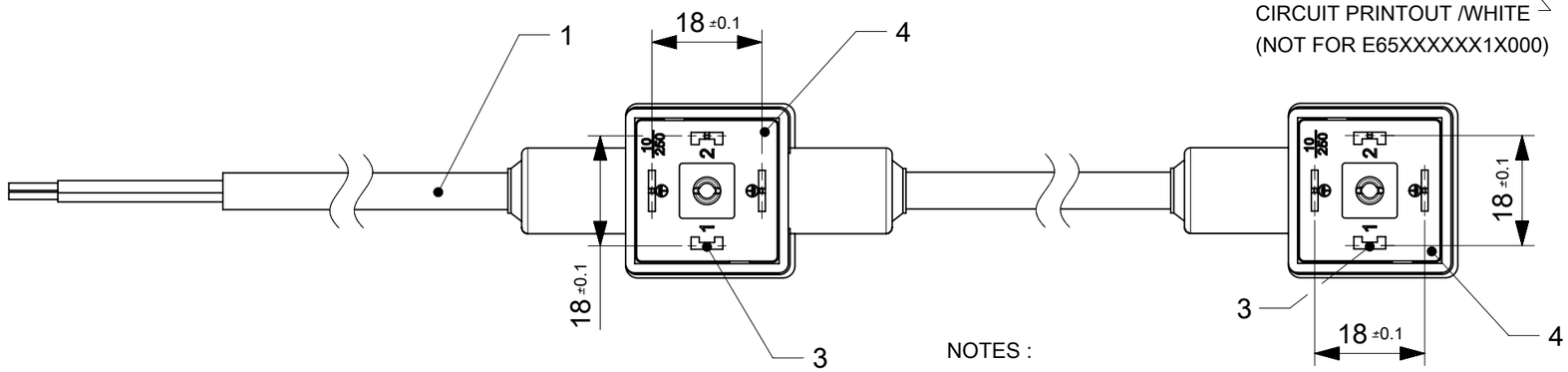

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/30 17:14:26 |
|---|---|---|---|




IN CASE OF E65XXXXXXX1X000,
WITHOUT LED




CIRCUIT PRINTOUT /WHITE
(NOT FOR E65XXXXXX1X000)




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)

BILL OF MATERIALS

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|---|---|---|---|---|
| 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) | - | - |

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

| DIMENSION UNITS | SCALE |
|---|---|
| mm | 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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

EC NO: 826032
DRWN: SAMPRS 2025/06/11
CHK'D: GGA 2025/06/30
APPR: GGA 2025/06/30

INITIAL REVISION:
DRWN: SSM 2020/07/31
APPR: RSILLER 2020/09/04

molex

STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

| THIRD ANGLE PROJECTION | DRAWING | SERIES |
|---|---|---|
| | A3-SIZE | 121055 |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1210550038 | PSD | 000 | A2 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE SHEET 4 | GENERAL MARKET | 1 OF 4 |

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

# ENGINEERING No. MATRIX

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

E - Packing without bag
W - Single Packing
Q - Quick Packing

Number of Wires
2 - 2 Poles
3 - 2 Poles + Ground
A - M12 STR , B - 90°

Cable type:
See Table

Head Colour:
G - Grey
N - Black
A - CSA-UL Black
B - CSA-UL Grey

Cable Lenght
in Meters (L):
A=1
B=1.5
C=2
D=2.5
E=3
F=3.5
G=4
H=4.5
L=5
M=5.5
N=6
P=6.5
Q=7
R=7.5
S=8
T=8.5
U=9
K=10

Cable Lenght
in cm Between
2 connectors (L1)
15=15 cm
30=30 cm
1K=100 cm
min length=13 cm

Earth PIN Location:
1=6/12 - earth on 6H/12H
2=12/1 earth on 12H
6=6/1 1 earth on 6H

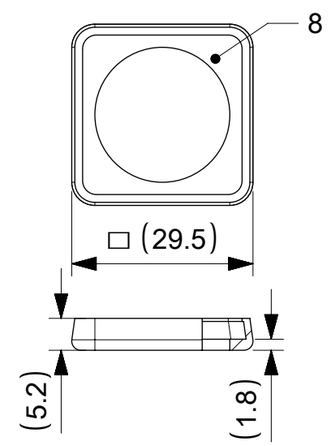
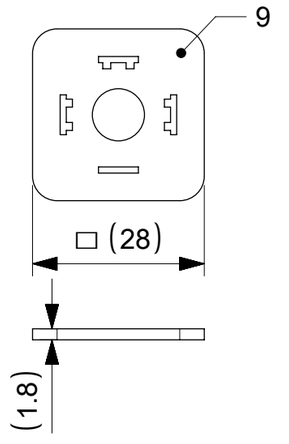
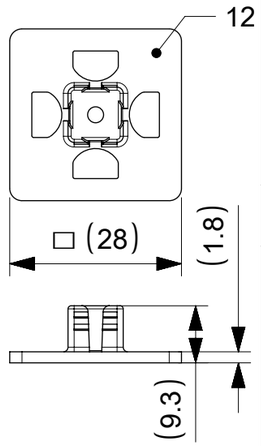
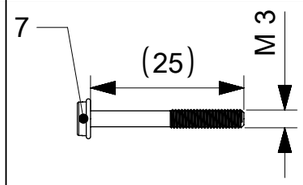
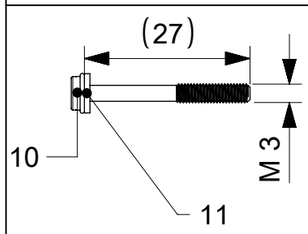
Internal Circuit
see Wiring Configuration

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

Voltage and LED color

| | |
|---|---|
| 1= 12V<br>2= 24V<br>3= 48V<br>4= 115V<br>5= 230V | RED LED |
| A= 12V<br>B= 24V<br>C= 48V<br>D= 115V<br>E= 230V | GREEN LED |
| G= 12V<br>H= 24V<br>K= 48V<br>L= 115V<br>M= 230V | YELLOW LED |

## Type of Screws and Gaskets

| Profiled Gasket | Flat Gasket | Integrated Gasket | Screw M3x25 |
|---|---|---|---|
|  |  |  |  |
| | | | Screw M3x27 + Washer |
| | | |  |







| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/30 17:14:26 |
|---|---|---|---|

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | 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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

EC NO: 826032
DRWN: SAMPRS 2025/06/11
CHK'D: GGA 2025/06/30
APPR: GGA 2025/06/30

INITIAL REVISION:
DRWN: SSM 2020/07/31
APPR: RSILLER 2020/09/04

| THIRD ANGLE PROJECTION | DRAWING | SERIES |
|---|---|---|
| | A3-SIZE | 121055 |

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STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1210550038 | PSD | 000 | A2 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE SHEET 4 | GENERAL MARKET | 2 OF 4 |

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

# TABLE 1 - CABLES

| mPm | Code | Wires | Cross Section | Material | Colour | Diameter ∅ |
|---|---|---|---|---|---|---|
| I | 0 | 3 | 1 mm² | 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 mm² | PVC TI2 CEI 20-20 | Grey | 5.5±0.2 mm |
| F | 2 | 3 | 0.5 mm² | CNEOMO | Grey RAL7000 | 5.5±0.2 mm |
| I | 2 | 2 | 0.5 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 5.5+0.3/-0 mm |
| I | 2 | 3 | 0.5 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 5.5+0.3/-0 mm |
| I | 2 | 4 | 0.5 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 6.5±0.2 mm |
| I | 2 | 5 | 0.5 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 7±0.2 mm |
| N | 2 | 2 | 0.5 mm² | PVCH03 | Black | 5.2±0.2 mm |
| N | 2 | 3 | 0.5 mm² | PVCH03 | Black | 5.5±0.2 mm |
| N | 2 | 4 | 0.5 mm² | PVCH03 | Black | 6.9 mm max |
| P | 2 | 2 | 0.5 mm² | PUR-BLEND | Black | 5.5±0.2 mm |
| P | 2 | 3 | 0.5 mm² | PUR-BLEND | Black | 5.5+0.3/-0 mm |
| P | 2 | 4 | 0.5 mm² | PUR-BLEND | Black | 6.5±0.2 mm |
| P | 2 | 5 | 0.5 mm² | 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 mm² | PVC TI2 CEI 20-20 | Grey | 6.5±0.2 mm |
| D | 3 | 4 | 0.75 mm² | PVC TI2 CEI 20-20 | Grey | 7.1±0.2 mm |
| I | 3 | 2 | 0.75 mm² | PVC CEI 2022 II O.R. | Grey RAL7001 | 5.5±0.2 mm |
| I | 3 | 3 | 0.75 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 6±0.2 mm |
| I | 3 | 4 | 0.75 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 7±0.2 mm |
| N | 3 | 2 | 0.75 mm² | PVCH05 | Black | 6.2±0.2 mm |
| N | 3 | 3 | 0.75 mm² | PVCH05 | Black | 6.5±0.2 mm |
| N | 3 | 4 | 0.75 mm² | PVCH05 | Black | 7.1±0.2 mm |
| N | 3 | 5 | 0.75 mm² | PVCH05 | Black | 8.0+0.2/-0 mm |
| P | 3 | 2 | 0.75 mm² | PUR-BLEND | Black | 6.5±0.2 mm |

| mPm | Code | Wires | Cross Section | Material | Colour | Diameter ∅ |
|---|---|---|---|---|---|---|
| P | 3 | 3 | 0.75 mm² | PUR-BLEND | Black | 6.5±0.2 mm |
| P | 3 | 4 | 0.75 mm² | PUR-BLEND | Black | 7±0.2 mm |
| R | 3 | 3 | 0.75 mm² | TPR HAL. FREE | Black | 6.5±0.2 mm |
| T | 3 | 3 | 0.75 mm² | PUR CSA/UL | Yellow | 6.5±0.2 mm |
| Y | 3 | 3 | 0.75 mm² | SIL/0300 | Red | 6.5±0.2 mm |
| F | 4 | 3 | 1 mm² | CNEOMO | Grey RAL7000 | 7.1+0.2/-0 mm |
| F | 4 | 4 | 1 mm² | CNEOMO | Grey RAL7000 | 7.1+0.2/-0 mm |
| I | 4 | 2 | 1 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 7.1+0.2/-0 mm |
| I | 4 | 3 | 1 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 7.1+0.2/-0 mm |
| N | 4 | 2 | 1 mm² | PVCH05 | Black | 6.5±0.2 mm |
| N | 4 | 3 | 1 mm² | PVCH05 | Black | 6.9±0.2 mm |
| R | 4 | 3 | 1 mm² | TPR HAL. FREE | Black | 7.1±0.2 mm |
| N | 5 | 3 | 1.5 mm² | PVCH05 | Black | 8.3+0.2/-0 mm |
| I | 6 | 2 | 0.35 mm² | 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 mm² | PVC CEI 2022 II O.R. | Grey RAL7035 | 7.3±0.2 mm |

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | 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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

EC NO: 826032
DRWN: SAMPRS 2025/06/11
CHK'D: GGA 2025/06/30
APPR: GGA 2025/06/30

INITIAL REVISION:
DRWN: SSM 2020/07/31
APPR: RSILLER 2020/09/04

molex

STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1210550038 | PSD | 000 | A2 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 121055 | SEE SHEET 4 | GENERAL MARKET | 3 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/30 17:14:26 |
|---|---|---|---|

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

# PART LIST

| SL No. | MOLEX P/N | ENGINEERING No. |
|---|---|---|
| 1 | - | - |
| 2 | - | - |
| 3 | - | - |
| 4 | - | - |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |
| 9 | 1210503504 | E653B2AL131PC4H |
| 10 | - | - |
| 11 | 1210550038 | E653P3NE1311C4H |
| 12 | 1210550048 | E653P3NL2011000 |
| 13 | 1210550055 | E653N3NA3011000 |
| 14 | 1210550063 | E653I3NE1411C4H |
| 15 | 1210550065 | E653I3NL1411C4H |
| 16 | 1210550067 | E653I3NL1611C4H |
| 17 | - | - |
| 18 | - | - |
| 19 | - | - |
| 20 | 1210550083 | E653N3NC8011000 |
| 21 | - | - |
| 22 | - | - |
| 23 | - | - |
| 24 | - | - |
| 25 | - | - |
| 26 | - | - |
| 27 | - | - |
| 28 | 1210550140 | E653B3NL1311C4H |
| 29 | - | - |
| 30 | 1210550143 | E653P3NL201PS0B |
| 31 | - | - |
| 32 | 1210550148 | E653P3NE201PS0B |
| 33 | - | - |
| 34 | - | - |
| 35 | 1210550157 | E653P3NE2011C4H |
| 36 | - | - |
| 37 | - | - |
| 38 | 1210550163 | E653P3NE5011C4H |
| 39 | - | - |
| 40 | - | - |

| SL No. | MOLEX P/N | ENGINEERING No. |
|---|---|---|
| 41 | 1210550169 | E653P3NA131PC3H |
| 42 | 1210550171 | E653P3NC131PC3B |
| 43 | 1210550174 | E653P3NL2011C4H |
| 44 | 1210550175 | E653P3NC131P000 |
| 45 | - | - |
| 46 | - | - |
| 47 | 1210550186 | E653P3NC4014C4H |
| 48 | - | - |
| 49 | - | - |
| 50 | 1210550255 | E653P3NB201PS0H |
| 51 | 1210550256 | E653P3NC151PS0H |
| 52 | 1210550258 | E653P3NA131PC4H |
| 53 | - | - |
| 54 | - | - |
| 55 | - | - |
| 56 | - | - |
| 57 | - | - |
| 58 | 1210550277 | E653P3NU201PC4H |
| 59 | - | - |
| 60 | 1210550282 | E653P3NB131PC31 |
| 61 | - | - |
| 62 | - | - |
| 63 | - | - |
| 64 | - | - |
| 65 | - | - |
| 66 | - | - |
| 67 | - | - |
| 68 | 1210550290 | E653P3NL201PC4H |
| 69 | - | - |
| 70 | - | - |
| 71 | 1210550299 | E653N3NA201PA1B |
| 72 | 1210550311 | E653A3AA161PC31 |
| 73 | 1210550312 | E653A3AA161PC3A |
| 74 | 1210550313 | E653A3AA161PC3G |
| 75 | 1210550315 | E653P3NE501PC4H |
| 76 | - | - |
| 77 | - | - |
| 78 | 1210550322 | E653P3NC4014000 |
| 79 | 1210550324 | E653P3NK201PS0B |
| 80 | - | - |

| SL No. | MOLEX P/N | ENGINEERING No. |
|---|---|---|
| 81 | 1210550337 | E653B3AE1411C4H |
| 82 | - | - |
| 83 | 1210550357 | E653A3AB1513C4H |
| 84 | 1210550358 | E653P3NG131PC4H |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| TABLE OF LENGTH TOLERANCES [mm] | | |
|---|---|---|
| Over | Up to and Including | Tolerance |
| 0 | 500 | -10/+20 |
| 500 | 1000 | ±20 |
| 1000 | 3000 | ±30 |
| 3000 | 5000 | ±40 |
| 5000 | 10000 | ±50 |
| 10000 | 15000 | ±100 |
| 15000 | 20000 | ±150 |
| 20000 | | ±L/100 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/30 17:14:26 |
|---|---|---|---|

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | 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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

EC NO: 826032
DRWN: SAMPRS 2025/06/11
CHK'D: GGA 2025/06/30
APPR: GGA 2025/06/30

INITIAL REVISION:
DRWN: SSM 2020/07/31
APPR: RSILLER 2020/09/04

molex

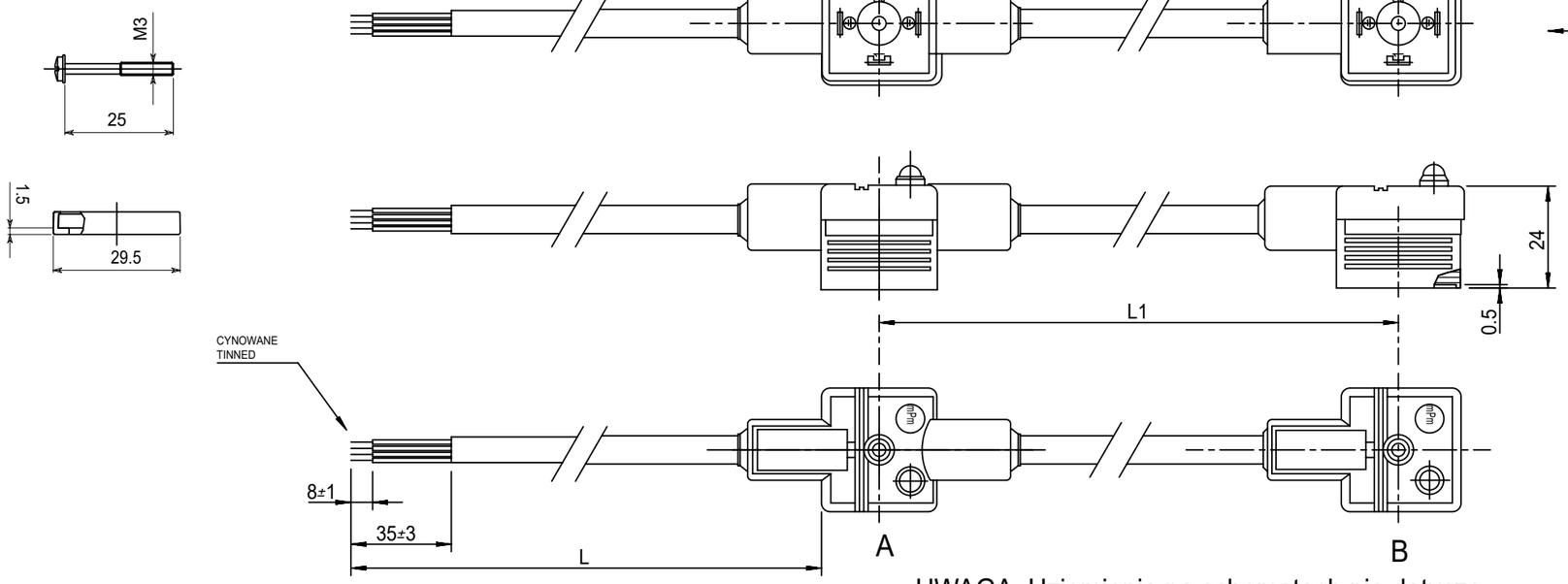
STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

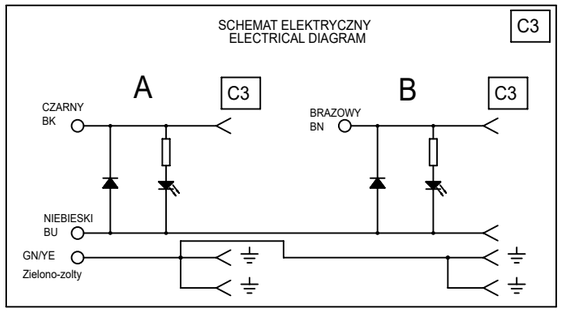
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|---|---|---|---|
| 1210550038 | PSD | 000 | A2 |

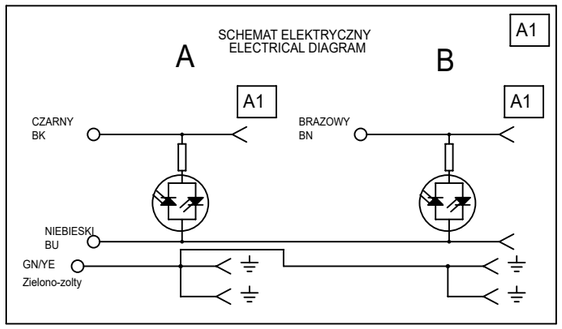
| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 121055 | SEE PART LIST | GENERAL MARKET | 4 OF 4 |

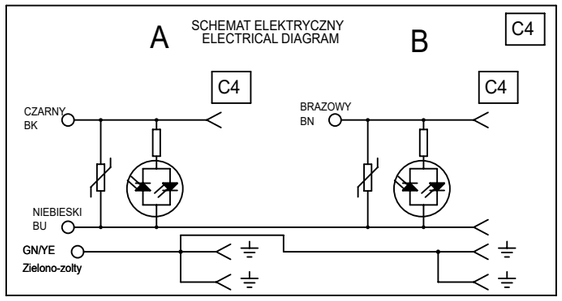
FORMAT: master-lb-prod-A3
REVISION: J1
DATE: 2021/05/01

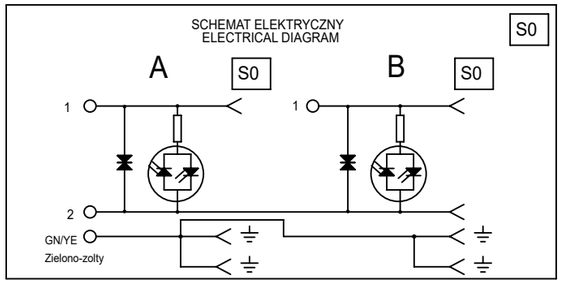



TAMPO NADRUK SCHEMAT/BIALY
CIRCUIT PRINTOUT/WHITE

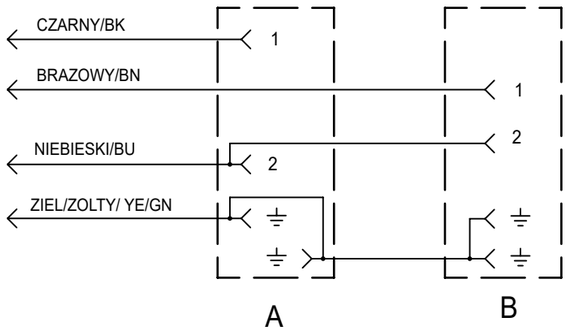



## POLACZENIA
## CONNECTION




UWAGA: Uziemienia na schematach nie dotycza numerow E652XXXXXXXXXX.

NOTE: Grounding on shematics dosnt include E652XXXXXXXXXX P/N.

| Table of lenght tolerances/ Tablica tolerancji dlugosci mm | | |
|---|---|---|
| Over/Od | Up to and including/ Do-wlacznie | Tolerance/Tolerancja +/- |
| 100 | 1000 | ±20 |
| 1000 | 3000 | ±30 |
| 3000 | 5000 | ±40 |
| 5000 | 10000 | ±50 |
| 10000 | 15000 | ±100 |
| 15000 | 20000 | ±150 |
| | >20000 | L/100 |

UWAGI:

1. DLUGOSC PATRZ ARKUSZ 2.

NOTES:

1. LENGHT SEE SHEET 2.

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

| | | | |
|---|---|---|---|
| DIMENSION UNITS: mm | SCALE: NTS | CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183 | molex |
| GENERAL TOLERANCES (UNLESS SPECIFIED): MM / INCH | | EC NO: 826029 | MPM E65XXXXXXXXXXX |
| 4 PLACES ± / ± | | DRWN: RAGHAH3 2025/06/20 | |
| 3 PLACES ± / ± | | CHK'D: GGA 2025/06/27 | PRODUCT CUSTOMER DRAWING |
| 2 PLACES ± / ± | | APPR: GGA 2025/06/27 | |
| 1 PLACE ± / ± | | INITIAL REVISION: | DOCUMENT NUMBER: E65XXXXXXXXXXX; DOC TYPE: PSD; DOC PART: 001; REVISION: A1 |
| 0 PLACES ± / ± | | DRWN: MWOLSZCZAK 2009/06/30 | |
| ANGULAR TOL ± ° | | APPR: GOGRODNIK 2009/07/01 | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION; DRAWING: A3-SIZE; SERIES: 121055 | MATERIAL NUMBER: SEE TABLE; CUSTOMER: GENERAL MARKET; SHEET NUMBER: 1 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/27 09:09:16 |
|---|---|---|---|

FORMAT: Mel-lega-master-tb-prod-A3
REVISION: E1
DATE: 2021/05/01

| E | 6 | 5 | X | X | X | X | X | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

E - Pakowanie bez workow
W - Pakowanie pojedynczo
Q - Szybkie pakowanie

ILOSC PRZEWODOW/NUMBER OF WIRES:
2=3 PRZEWODY,
3=3 PRZEWODY+UZIEMIENIE,
A= M12 PROSTY,
B=M12 90°

TYP KABLA/CABLE TYPE
PATRZ TABELA 1/SEE TABLE 1

RODZAJ KABLA/CABLE CROSS SECTION AREA
PATRZ TABELA 2/SEE TABLE 2

KOLOR MOULDINGU/HEAD COLOUR:
G=SZARY/GREY;
N=CZARNY/BLACK;
T=PRZEZROCZYSTY/TRANSPARENT;
A=CZARNY/BLACK;
B=SZARY/GREY.

DLUGOS KABLA W METRACH (L1)
CABLE LENGHT IN METERS (L1)
A=1
B=1,5
C=2
D=2,5
E=3
F=3,5
G=4
H=4,5
L=5
M=5,5
N=6
P=6,5
Q=7
R=7,5
S=8
T=8,5
U=9
K=10

DLUGOSC KABLA W CM MIEDZY DWOMA OBUDOWAMI/CABLE LENGHT IN CM BETWIN 2 MOULDINGS
NP:50=50 CM,

POLOZENIE PINU Z UZIEMIENIEM/EARTH PIN LOCATION:
1=UZIEMIENIE NA GODZINIE 6/EARTH ON 6H.
2=UZIEMIENIE NA GODZINIE 12/1EARTH ON 12H,

GASKET ORAZ SRUBY/GASKET SCREWS:
1=GASKET PROFILOWANY+SRUBA/NBR PROFILE GASKET+FIXING SCREWS,
2=NBR PLASKI GASKET+SRUBA/NBR FLAT GASKET+SCREW,
3=SILIKONOWY PROFILOWANY GASKET+SRUBA/SILICONE PROFILE GASKET+SCREW,
4=SILIKOWANY PLASKI GASKET+SRUBA/SILICON FLAT GASKET+SCREW,
P=ZINTEGROWANY GASKET+SRUBA/INTEGRATED GASKET+FIXING SCREW,
R=ZINTEGROWANY GASKET+SRUBA/INTAGRATED GASKET+SCREW,
T=PROFILOWANY GASKET+SRUBA, PROFILE GASKET+SCREW.

RODZAJ POLACZENIA/INTERNAL CIRQUIT
PATRZ SCHEMATY POLACZEN/WIREING CONFIGURATION

NAPIECIE ORAZ KOLOR DIODY/VOLTAGE AND LED COLOUR:

| | | |
|---|---|---|
| 1= 12V | A= 12V | G= 12V |
| 2= 24V | B= 24V | H= 24V |
| 3= 48V | C= 48V | K= 48V |
| 4= 115V | D= 115V | L= 115V |
| 5= 230V | E= 230V | M= 230V |
| CZERWONA DIODA RED LED | ZIELONA DIODA GREEN LED | ZOLTA DIODA YELLOW LED |

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± |
| 2 PLACES | ± | ± |
| 1 PLACE | ± | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

EC NO: 826029
DRWN: RAGHAH3 2025/06/20
CHK'D: GGA 2025/06/27
APPR: GGA 2025/06/27

INITIAL REVISION:
DRWN: MWOLSZCZAK 2009/06/30
APPR: GOGRODNIK 2009/07/01

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121055

molex

MPM E65XXXXXXXXXXX

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| E65XXXXXXXXXXX | PSD | 001 | A1 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 2 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/27 09:09:16 |
|---|---|---|---|

FORMAT: Met-lega-master-tb-prod-A3
REVISION: E1
DATE: 2021/05/01

TABELA 2 KABLE/TABLE 2 CABLES

| MOLEX PN | mPm | Code | PRZEW | PRZEKROJ | MATERIAL | KOLOR/COLOUR | SREDNICA Ø | DIN A-B | DIN C |
|---|---|---|---|---|---|---|---|---|---|
| 1210180080 | I | - | 3 | 1 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | | | |
| 1210180467 | A | 2 | 2 | 20 AWG | PVC CSA/UL 2661 | Czarny/Black | 5,5+/-0,2 mm | OK | OK. |
| | A | 2 | 3 | 20 AWG | PVC CSA/UL 2661 | Czamny/Black | 5,6+/-0,2 mm | OK. | OK. |
| 1210180394 | A | 2 | 4 | 20 AWG | PVC CSA/UL 2661 | Czamny/Black | 6,2+/-0,2 mm | OK. | OK |
| | A | 2 | 5 | 20 AWG | PVC CSA/UL 2661 | Czarny/Black | 7+/-0,2 mm | OK | |
| 1210180297 | B | 2 | 2 | 20 AWG | PUR CSA/UL 20668 | Czarny/Black | 5,5+/-0,2 mm | OK. | OK. |
| 1210180126 | B | 2 | 3 | 20 AWG | PUR CSA/UL 20668 | Czamy/Black | 5,6+/-0,2 mm | OK | OK. |
| 1210180387 | B | 2 | 4 | 20 AWG | PUR CSA/UL 20668 | Czarny/Black | 6,2+/-0,2 mm | OK. | OK. |
| | B | 2 | 5 | 20 AWG | PUR CSA/UL 20668 | Czamy/Black | 7+/-0,2 mm | OK. | |
| 1210180122 | D | 2 | 3 | 0,5 mm2 | PVC TI2 CEI 20-20 | Szary/Grey | - | - | - |
| | F | 2 | 3 | 0,5 mm2 | CNOMO | Szary/Grey RAL7000 | 5,5+/-0,2 mm | OK. | OK. |
| 1210180047 | I | 2 | 2 | 0,5 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | 5,5+/-0,2 mm | OK. | OK. |
| | I | 2 | 3 | 0,5 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | 5,5+/-0,2 mm | OK. | OK |
| 1210180146 | I | 2 | 4 | 0,5 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | 6,5+/-0,2 mm | OK | |
| 1210180177 | I | 2 | 5 | 0,5 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | 7+/-0,2 mm | OK. | |
| 1210180022 | N | 2 | 2 | 0,5 mm2 | PVCH03 | Czarny/Black | 5,1+ 0,2-0 mm | OK. | OK. |
| 1210180064 | N | 2 | 3 | 0,5 mm2 | PVCH03 | Czamy/Black | 5,4+ 0,2-0 mm | OK. | OK. |
| 1210180153 | N | 2 | 4 | 0,5 mm2 | PVCH03 | Czarny/Black | 5,75+0,2-0 mm | OK. | OK. |
| 1210180046 | P | 2 | 2 | 0,5 mm2 | PUR - BLEND | Czamy/Black | 5,5+/-0,2 mm | OK | OK. |
| | P | 2 | 3 | 0,5 mm2 | PUR - BLEND | Czamny/Black | 5,5+/-0,2 mm | OK. | OK. |
| 1210180302 | P | 2 | 4 | 0,5 mm2 | PUR - BLEND | Czamy/Black | - | - | - |
| | P | 2 | 5 | 0,5 mm2 | PUR - BLEND | Czarny/Black | 7+/-0,2 mm | OK. | OK. |
| 1210180409 | A | 3 | 2 | 18 AWG | PVC CSA/UL 2661 | Czarny/Black | 6,5+/-0,2 mm | OK | |
| 1210180129 | A | 3 | 3 | 18 AWG | PVC CSA/UL 2661 | Czamy/Black | 6,5+/-0,2 mm | OK. | |
| 1210180159 | A | 3 | 4 | 18 AWG | PVC CSA/UL 2661 | Czamy/Black | 7+/-0,2 mm | OK. | |
| | A | 3 | 5 | 18 AWG | PVC CSA/UL 2661 | Czarny/Black | 7,8+/-0,2 mm | OK. | |
| 1210180351 | B | 3 | 2 | 18 AWG | PUR CSA/UL 20668 | Czamny/Black | 6,5+/-0,2 mm | OK. | |
| 1210180127 | B | 3 | 3 | 18 AWG | PUR CSA/UL 20668 | Czarny/Black | 6,5+/-0,2 mm | OK | |
| 1210180127 | B | 3 | 4 | 18 AWG | PUR CSA/UL 20668 | Czamy/Black | 7+/-0,2 mm | OK. | |
| | B | 3 | 5 | 18 AWG | PUR CSA/UL 20668 | Czamy/Black | 7,8+/-0,2 mm | OK. | |
| 1210180073 | D | 3 | 3 | 0,75 mm2 | PVC TI2 CEI 20-20 | Szary/Grey | - | - | - |
| 1210180145 | D | 3 | 4 | 0,75 mm2 | PVC TI2 CEI 20-20 | Szary/Grey | - | - | - |
| 1210180120 | I | 3 | 3 | 0,75 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | - | - | - |
| 1210180143 | I | 3 | 4 | 0,75 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | - | - | - |
| 1210180032 | N | 3 | 2 | 0,75 mm2 | PVCH05 | Czarny/Black | 6,2+ 0,2-0 mm | OK. | |
| 1210180069 | N | 3 | 3 | 0,75 mm2 | PVCH05 | Czarny/Black | 6,6+0,2-0 mm | OK | |
| | N | 3 | 4 | 0,75 mm2 | PVCH05 | Czamny/Black | 7,15+0,2-0 mm | OK | |
| 1210180174 | N | 3 | 5 | 0,75 mm2 | PVCH05 | Czarny/Black | 8,0+0,2-0 mm | OK. | |
| | P | 3 | 2 | 0,75 mm2 | PUR - BLEND | Czarny/Black | 6,5+/-0,2 mm | OK. | |

TABELA 2 KABLE/TABLE 2 CABLES

| MOLEX PN | mPm | Code | PRZEW | PRZEKROJ | MATERIAL | KOLOR/COLOUR | SREDNICA Ø | DIN A-B | DIN C |
|---|---|---|---|---|---|---|---|---|---|
| 1210180071 | P | 3 | 3 | 0,75 mm2 | PUR - BLEND | Czamy/Black | 6,5+/-0,2 mm | OK. | |
| 1210180152 | P | 3 | 4 | 0,75 mm2 | PUR - BLEND | Czamy/Black | 7+/-0,2 mm | OK. | |
| 1210180384 | R | 3 | 3 | 0.75 mm2 | TPR HAL. FREE | Czamy/Black | 6,5+/-0,2 mm | OK. | |
| 1210180094 | T | 3 | 3 | 0.75 mm2 | PUR CSA/UL | Żółty/Yellow | - | - | - |
| 1210180309 | Y | 3 | 3 | 0,75 mm2 | SIL/0300 | Czerwony/Red | 6,5+/-0,2 mm | - | - |
| 1210180081 | F | 4 | 3 | 1 mm2 | CNOMO | Szary/Grey RAL7000 | - | - | - |
| | F | 4 | 4 | 1 mm2 | CNOMO | Szary/Grey RAL7000 | 7,1+0,2-0 mm | OK. | |
| 1210180042 | I | 4 | 2 | 1 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | 7,1+0,2-0 mm | OK. | |
| 1210180079 | I | 4 | 3 | 1 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | 7,1+0,2-0 mm | OK. | |
| 1210180036 | N | 4 | 2 | 1 mm2 | PVCH05 | Czamy/Black | 6,5+0,2-0 mm | OK. | |
| 1210180082 | N | 4 | 3 | 1 mm2 | PVCH05 | Czamy/Black | 6,9+0,2-0 mm | OK. | |
| 1210180117 | R | 4 | 3 | 1 mm2 | TPR HAL. FREE | Czamy/Black | - | - | - |
| 1210180085 | N | 5 | 3 | 1.5 mm2 | PVCH05 | Czamy/Black | 8,3+0,2-0 mm | OK. | |
| 1210180313 | I | 6 | 2 | 0,35 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | - | - | - |
| | A | 7 | 3 | 20 AWG | PVC CSA/UL 2661 | Żółty/Yellow | 5.6+/-0,2 mm | OK. | OK. |
| 1210180149 | I | 9 | 4 | 0,75 mm2 | PVC CEI 2022 II O.R. | Szary/Grey RAL7035 | - | - | - |

TABELA 1 TYPY KABLI/TABLE 1 CABLES TYPE

| Znakowanie /Code | Rodzaje kabla /Cable types | Właściwości /Features | Przekroje /Stranding |
|---|---|---|---|
| N | PVC | Kabel z dobrą rezystancją w wodzie ale słabą w oleju./Application general purposecable which has good resistance to water, butusually 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 | PVC | Zatwierdzione przez IEC 332-2A, samogaszący./Approved to IEC 332-2A, flameretardant and self extinguishing.Limited resistant to mineral oils. | 0.5 mm2 = 28 x 0.15<br>0.75 mm2 = 42 x<br>0.151 mm2 = 32 x 0.20 |
| P | PVC | Dobra rezystancja w olejach i chemikaljach./Offer good resistance to oil and chemicals. Can swellwhen constantly immersed in water. | 0.5 mm2 = 28 x 0.15<br>0.75 mm2 = 42 x<br>0.151 mm2 = 32 x 0.20 |
| A | PVC | Zatwierdzony porzez CSA-UL 2661.Dobrarezystancja na wode słaba na olej./ Approved toCSA-UL 2661, application general purpose cablewhich has good resistance to water, but usuallypoor oil resistance. | 20 AWG = 32 x 0.15<br>18 AWG = 52 x 0.15 |
| B | PVC | Zatwierdzony przez CSA-UL 20668, bardzo dobra rezystanja w oleju i chemikaljach./ Approved toCSA-UL 20668, very good resistance to oiland chemicals. | 20 AWG = 32 x 0.15<br>18 AWG = 52 x 0.15 |

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DIMENSION UNITS: mm | SCALE: NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± |
| 2 PLACES | ± | ± |
| 1 PLACE | ± | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

| | | |
|---|---|---|
| EC NO: | 826029 | |
| DRWN: | RAGHAH3 | 2025/06/20 |
| CHK'D: | GGA | 2025/06/27 |
| APPR: | GGA | 2025/06/27 |
| INITIAL REVISION: | | |
| DRWN: | MWOLSZCZAK | 2009/06/30 |
| APPR: | GOGRODNIK | 2009/07/01 |

molex

MPM E65XXXXXXXXXXX

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| E65XXXXXXXXXXX | PSD | 001 | A1 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 121055 | SEE TABLE | GENERAL MARKET | 3 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/06/27 09:09:16 |
|---|---|---|---|

FORMAT: Met-lega-master-tb-prod-A3
REVISION: E1
DATE: 2021/05/01

TABELA 3/CHART 3

| MOLEX P/N | WOODHEAD P/N: |
|---|---|
| 1210550038 | E653P3NE1311C4H |
| 1210550063 | E653I3NE1411C4H |
| 1210550065 | E653I3NL1411C4H |
| 1210550067 | E65313NL1611C4H |
| 1210550139 | E652N2NL1511S02 |
| 1210550140 | E653B3NL1311C4H |
| 1210550143 | E653P3NL201PSOB |
| 1210550148 | E653P3NE201PSOB |
| 1210550157 | E653P3NE2011C4H |
| 1210550163 | E653P3NE5011C4H |
| 1210550169 | E653P3NA131PC3H |
| 1210550171 | E653P3NC131PC3B |
| 1210550174 | E653P3NL2011C4H |
| 1210550186 | E653P3NC4014C4H |

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

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± |
| 2 PLACES | ± | ± |
| 1 PLACE | ± | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515183

EC NO: 826029
DRWN: RAGHAH3 2025/06/20
CHK'D: GGA 2025/06/27
APPR: GGA 2025/06/27

INITIAL REVISION:
DRWN: MWOLSZCZAK 2009/06/30
APPR: GOGRODNIK 2009/07/01

molex

MPM E65XXXXXXXXXXX

PRODUCT CUSTOMER DRAWING

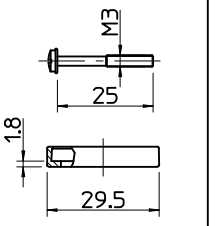
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|---|---|---|---|
| E65XXXXXXXXXXX | PSD | 001 | A1 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 121055 | SEE TABLE | GENERAL MARKET | 4 OF 4 |

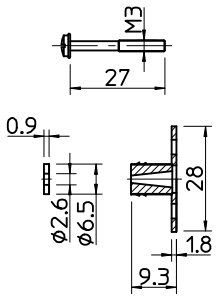
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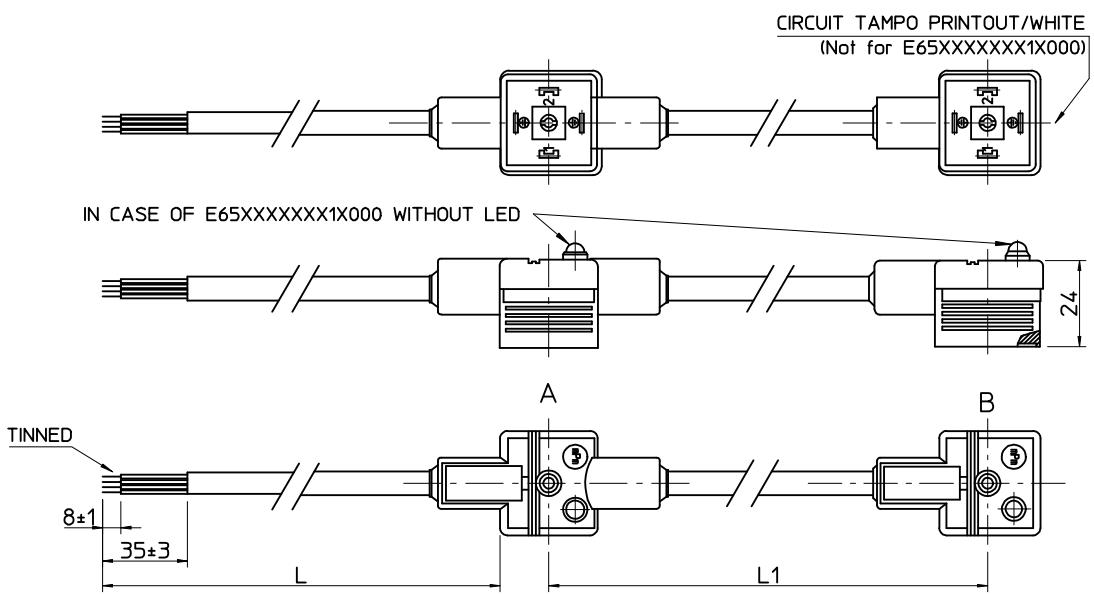
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REVISION: E1
DATE: 2021/05/01

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




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

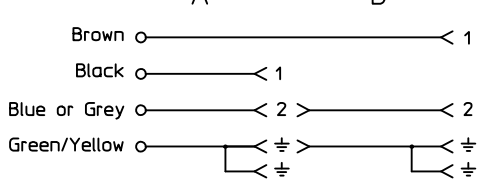


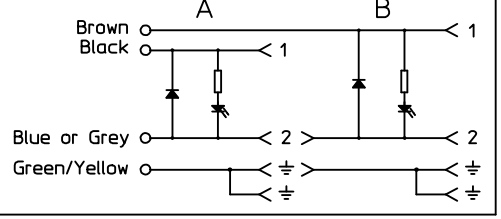

| Table of lenght tolerances [mm] | | |
|---|---|---|
| Over | Up to and including | Tolerance |
| 0 | 1000 | ±20 |
| 1000 | 3000 | ±30 |
| 3000 | 5000 | ±40 |
| 5000 | 10000 | ±50 |
| 10000 | 15000 | ±100 |
| 15000 | 20000 | ±150 |
| 20000 | | ±L/100 |

NOTE: Ground on schematics does not apply to E652XXXXXX1XXXX

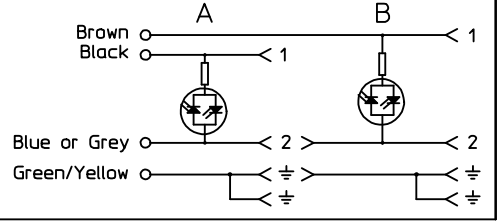
ELECTRICAL DIAGRAM
E653XXXXXX1X000 — 00



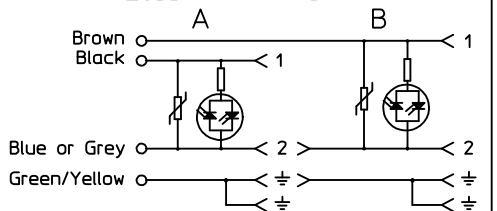

ELECTRICAL DIAGRAM
E653XXXXXX1XC3X — C3



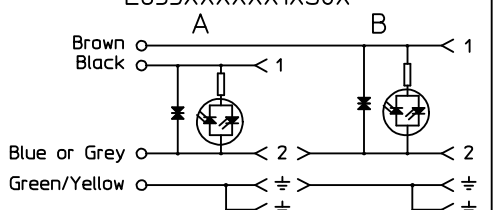

ELECTRICAL DIAGRAM
E653XXXXXX1XA1X — A1




ELECTRICAL DIAGRAM
E653XXXXXX1XC4X — C4




ELECTRICAL DIAGRAM
E653XXXXXX1XS0X — S0




DRAWING UPDATE
EC NO: IPG2013-1505
DRWN:JMARSZALEK 2013/03/28
CH'KD:
APPR:MIWASIECZKO 2013/04/02
DESCRIPTION
REV
B

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
SCALE
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2013/01/16
CHECKED BY: MSZWAJKOWSKI DATE: 2013/01/16
APPROVED BY: MIWASIECZKO DATE: 2013/02/12

TITLE
E65XXXXXXX1XXXX
DUAL DIN FORM A

molex

MATERIAL NO.: SEE SHEET 2&3
DOCUMENT NO.: SD-121055-001
SHEET NO.: 1 OF 4
SIZE: A3

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

| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|

# E 6 5 X X X X X X X 1 X X X X

E - Packing without bags
W - Single packing
Q - Quick packing

NUMBER OF WIRES:
2=2 POLES
3=2 POLES+GROUND

CABLE TYPE
SEE TABLE 1

CABLE CROSS SECTION AREA
SEE TABLE 2

HEAD COLOUR:
G=GREY
N=BLACK
T=TRANSPARENT
A=CSA-UL BLACK
B=CSA-UL GREY

CABLE LENGHT IN METERS (L)
A=1
B=1,5
C=2
D=2,5
E=3
F=3,5
G=4
H=4,5
L=5
M=5,5
N=6
P=6,5
Q=7
R=7,5
S=8
T=8,5
U=9
K=10

CABLE LENGHT IN CM BETWIN 2 MOULDINGS (L1)
Eg.:050=50 CM, 300=300 CM, 10K=1000 CM

EARTH PIN LOCATION:
1=DOUBLE EARTH ON 6H AND 12H.

TYPE OF GASKET AND SCREW:
1=NBR PROFILE GASKET + FIXING SCREWS (M3x25 mm).
2=NBR FLAT GASKET + FIXING SCREW (M3x25 mm).
3=SILICONE PROFILE GASKET + FIXING SCREW (M3x25 mm).
4=SILICON FLAT GASKET + FIXING SCREW (M3x25 mm).
P=INTEGRATED GASKET ASSEMBLED + FIXING SCREW WITH GROMMET ASSEMBLED (M3x27 mm).
R=INTAGRATED GASKET + FIXING SCREW + GROMMET (M3x27 mm).
T=PROFILE GASKET + FIXING SCREW + GROMMET (M3x27 mm).

INTERNAL CIRCUIT
WIRING CONFIGURATION

VOLTAGE AND LED COLOUR:

| RED LED | GREEN LED | YELLOW LED |
|---|---|---|
| 1= 12V | A= 12V | G= 12V |
| 2= 24V | B= 24V | H= 24V |
| 3= 48V | C= 48V | K= 48V |
| 4= 115V | D= 115V | L= 115V |
| 5= 230V | E= 230V | M= 230V |

DRAWING UPDATE
EC NO: IPG2013-1505 2013/03/28
DRWN: JMARSZALEK 2013/04/02
CH'KD:
APPR: MIWASIECZKO
DESCRIPTION
REV
B

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
SCALE: 1:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2013/01/16
CHECKED BY: MSZWAJKOWSKI DATE: 2013/01/16
APPROVED BY: MIWASIECZKO DATE: 2013/02/12
MATERIAL NO.: SEE SHEET 2&3

TITLE
E65XXXXXXX1XXXX
DUAL DIN FORM A

molex

DOCUMENT NO.: SD-121055-001
SHEET NO.: 2 OF 4
SIZE: A3

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

## TABLE 2 - CABLES

| Molex 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 | 5,5+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. | - |

## TABLE 2 - CABLES

| Molex 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. | - |

## 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 2013/03/28
DRWN: JMARSZALEK 2013/04/02
CH'KD:
APPR: MIWASIECZKO
DESCRIPTION
REV
B

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
SCALE: 1:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2013/01/16
CHECKED BY: MSZWAJKOWSKI DATE: 2013/01/16
APPROVED BY: MIWASIECZKO DATE: 2013/02/12
MATERIAL NO.: SEE SHEET 2&3

TITLE
E65XXXXXXX1XXXX
DUAL DIN FORM A

molex

DOCUMENT NO.: SD-121055-001
SHEET NO.: 3 OF 4
SIZE: A3

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## PART LIST

| Molex PN: | Engineering No.: |
|---|---|
| 1210550161 | E653P3NA1311C4H |
| 1210550292 | E653P3NA1311C4M |
| | |
| | |
| |