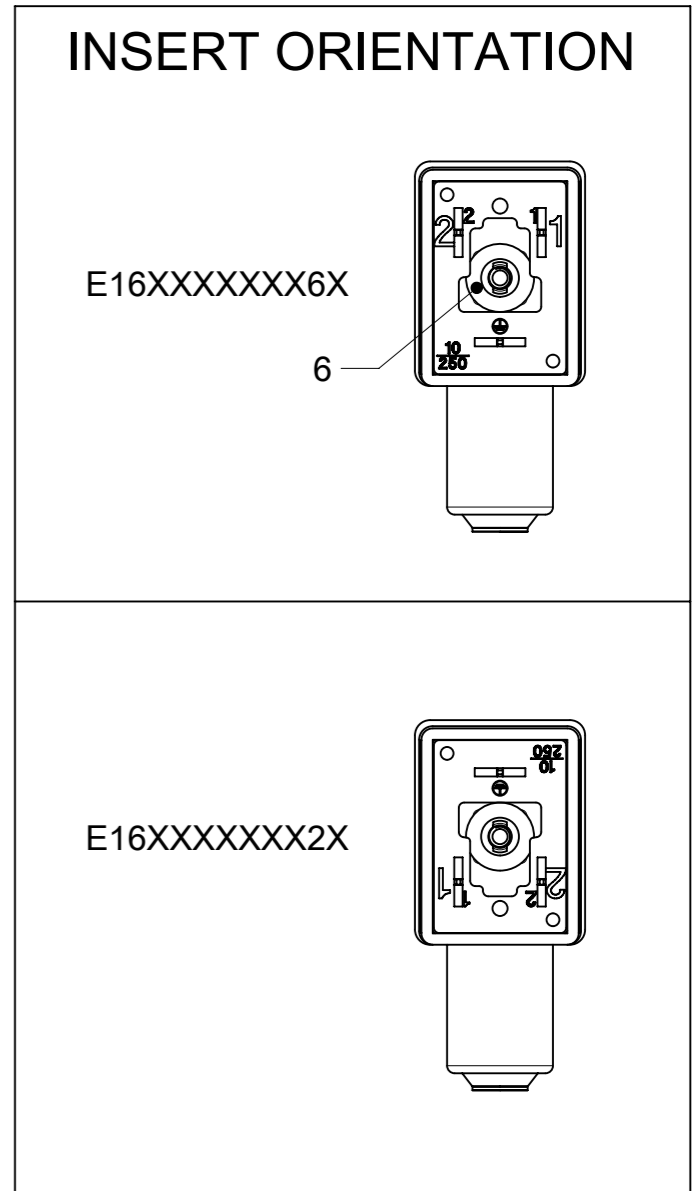


**WIRING CONFIGURATION**

|              |                |   |
|--------------|----------------|---|
| E161XXXXXXXX | BROWN ○        | 1 |
|              | BLUE ○         | 2 |
| E162XXXXXXXX | BROWN ○        | 1 |
|              | BLUE ○         | 2 |
|              | GREEN/YELLOW ○ | ⊕ |



**TABLE 3**

| Profiled Gasket | Flat Gasket | Integrated Gasket | Screw M3x25                     |
|-----------------|-------------|-------------------|---------------------------------|
|                 |             |                   |                                 |
|                 |             |                   | <b>Screw M3x27 + Washer</b><br> |

**TABLE 1**

| ITEM NO. | QTY | DESCRIPTION                   | MATERIAL       | FINISH/COLOR |
|----------|-----|-------------------------------|----------------|--------------|
| 1        | -   | CABLE                         | SEE CABLE LIST |              |
| 2        | 1   | POLYPROP MLD COMPOUND-SELF EX | SEE PAGE 2     |              |
| 3        | 1   | MOUNTED INSERT                | -              | BLACK        |
| 4        | 1   | GASKET                        | SEE TABLE 3    |              |
| 5        | 1   | SCREW                         | SEE TABLE 3    |              |
| 6        | 1   | SPACER                        | PA6            | BLACK        |

**TABLE 2**

TABLE OF LENGTH TOLERANCE (MM)

| OVER  | UPTO AND INCLUDING | TOLERANCE (+) |
|-------|--------------------|---------------|
| 0     | 1000               | ±20           |
| 1000  | 3000               | ±30           |
| 3000  | 5000               | ±40           |
| 5000  | 10000              | ±50           |
| 10000 | 15000              | ±100          |
| 15000 | 20000              | ±150          |
| 20000 |                    | ±LENGTH/100   |

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SYMBOLS:  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$ ,  $\nabla = 0$

THIS DRAWING 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

THIRD ANGLE PROJECTION

CURRENT REV DESC: REDRAWN

EC NO: 621216  
 DRWN: APAWLAK01 2019/07/24  
 CHK'D: RSILLER 2019/07/29  
 APPR: RSILLER 2019/07/29

INITIAL REVISION:  
 DRWN: MDHARMANTI 2019/01/14  
 APPR: RSILLER 2019/02/01

**molex**

MPM E16XXXXXXXXXX

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 1210400254  
 DOC TYPE: PSD  
 DOC PART: 000  
 REVISION: A1

MATERIAL NUMBER: SEE PART LIST  
 CUSTOMER: GENERAL MARKET  
 SHEET NUMBER: 1 OF 3

# PART No. MATRIX

**E 1 6 X X X X X X X X X X**

PACKING WITHOUT BAG

NUMBER OF WIRES:  
1-2 WIRES  
2-2 WIRES+GROUND

CABLE CROSS SECTION AREA:  
SEE CABLE INFORMATION

CABLE TYPE:  
SEE CABLE INFORMATION

HEAD COLOUR:  
\* G-GREY  
\* N-BLACK  
\* A-UL BLACK (ONLY WITH UL LISTED CABLE)

CABLE LENGTH IN CM:  
\* 050-50 CM  
\* 300-300 CM  
\* 10K-1000 CM

EARTH PIN LOCATION (SEE INSERT ORIENTATION TABLE):  
2- EARTH ON H12  
6- EARTH ON H6

**GASKET SCREWS:**  
1-NBR PROFILE GASKET+FIXING SCREWS (M3x25 mm)  
2-NBR FLAT GASKET+SCREW (M3x25 mm)  
3-SILICONE PROFILE GASKET+SCREWS (M3x25 mm)  
4-SILICONE FLAT GASKET+SCREW (M3x25 mm)  
P-INTIGRATED GASKET+FIXING SCREW+GROMMET (M3x27 mm)  
R-INTIGRATED GASKET+SCREW+GROMMET (M3x27 mm)  
T-PROFILE GASKET+SCREW+GROMMET (M3x27 mm)

## PART LIST

| MOLEX P/N   | ENGINEERING No. | LENGTH (MM) |
|-------------|-----------------|-------------|
| 1210400254  | E162I2N20061    | 2000        |
| *1210400255 | E162I2N50021    | 5000        |
| 1210400263  | E162I4N20061    | 2000        |
| 1210400269  | E162I4N50061    | 5000        |
| *1210400271 | E162N2N10021    | 1000        |
| *1210400272 | E162N2N10K21    | 10000       |
| *1210400273 | E162N2N20021    | 2000        |
| *1210400276 | E162N2N30021    | 3000        |
| 1210400277  | E162N2N30061    | 3000        |
| *1210400278 | E162N2N50021    | 5000        |
| 1210400283  | E162N3N03061    | 300         |
| *1210400284 | E162N3N03521    | 350         |
| *1210400286 | E162N3N05021    | 500         |
| 1210400288  | E162N3N05061    | 500         |
| *1210400295 | E162N3N10021    | 1000        |
| *1210400296 | E162N3N10022    | 1000        |
| 1210400297  | E162N3N10061    | 1000        |
| *1210400299 | E162N3N10K21    | 10000       |
| *1210400301 | E162N3N15021    | 1500        |
| 1210400303  | E162N3N15061    | 1500        |

| MOLEX P/N   | ENGINEERING No. | LENGTH (MM) |
|-------------|-----------------|-------------|
| *1210400305 | E162N3N20021    | 2000        |
| 1210400307  | E162N3N20061    | 2000        |
| *1210400308 | E162N3N25021    | 2500        |
| 1210400310  | E162N3N25061    | 2500        |
| *1210400311 | E162N3N30021    | 3000        |
| *1210400312 | E162N3N30022    | 3000        |
| 1210400313  | E162N3N30061    | 3000        |
| 1210400319  | E162N3N40061    | 4000        |
| *1210400320 | E162N3N50021    | 5000        |
| 1210400322  | E162N3N50061    | 5000        |
| *1210400581 | E162I2N30021    | 3000        |
| 1210400625  | E161N2N10021    | 1000        |
| 1210400654  | E162I2N30061    | 3000        |
| *1210400657 | E162P3N20021    | 2000        |
| *1210400711 | E162R3N30021    | 3000        |
| *1210400778 | E162I2N10022    | 1000        |
| 1210400820  | E162N3N1006P    | 1000        |
| 1210400821  | E162N3N3006P    | 3000        |
| 1210400822  | E162N3N5006P    | 5000        |

## CABLE INFORMATION

| CABLE TYPE | CABLE C/S            | CABLE JACKET    | TEMPERATURE RANGE (STATIC) | BENDING RADIUS |           |
|------------|----------------------|-----------------|----------------------------|----------------|-----------|
|            |                      |                 |                            | STATIC         | DYNAMIC   |
| A2         | 20AWG                | PVC UL 2661     | -15° TO +105°              | >10X OD        | >15X OD   |
| A3         | 18 AWG               | PVC UL 2661     | -15° TO +105°              | >10X OD        | >15X OD   |
| B2         | 20AWG                | PUR UL 20668    | -40° TO +90°               | >5X OD         | >10X OD   |
| B3         | 18 AWG               | PUR UL 20668    | -40° TO 90°                | >5X OD         | >10X OD   |
| I2         | 0.5 mm <sup>2</sup>  | PVC CEI 2022 II | -25° TO +70°               | >10X OD        | >15X OD   |
| I4         | 1 mm <sup>2</sup>    | PVC CEI 2022 II | -25° TO +70°               | >10X OD        | >15X OD   |
| N2         | 0.5 mm <sup>2</sup>  | PVC H03         | -20° TO +70°               | >3X OD         | NA        |
| N3         | 0.75 mm <sup>2</sup> | PVC H05         | -20° TO +70°               | >9X OD         | NA        |
| N4         | 1 mm <sup>2</sup>    | PVC H05         | -20° TO +70°               | >9X OD         | NA        |
| P2         | 0.5 mm <sup>2</sup>  | PUR-BLEND       | -40° TO +90°               | >7.5X OD       | >12.5X OD |
| P3         | 0.75 mm <sup>2</sup> | PUR-BLEND       | -40° TO +90°               | >7.5X OD       | >12.5X OD |
| R3         | 0.75 mm <sup>2</sup> | TPR             | -40° TO +130°              | -              | -         |
| R4         | 1 mm <sup>2</sup>    | TPR             | -40° TO +130°              | -              | -         |
| W3         | 0.75 mm <sup>2</sup> | PE              | -40°C TO 90°C              | >5X OD         |           |

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CURRENT REV DESC: REDRAWN

**molex**

MPM E16XXXXXXX

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 1210400254 | DOC TYPE: PSD | DOC PART: 000 | REVISION: A1

INITIAL REVISION:  
DRWN: MDHARMANTI 2019/01/14  
APPR: RSILLER 2019/02/01

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121040 | MATERIAL NUMBER: SEE PART LIST | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 2 OF 3

SYMBOLS:   
 ▽ = 0 DIMENSION UNITS SCALE 1:1  
 ▽ = 0 GENERAL TOLERANCES (UNLESS SPECIFIED)  
 ▽ = 0 ANGULAR TOL ± 1.0°  
 ▽ = 0 4 PLACES ±  
 ▽ = 0 3 PLACES ±  
 ▽ = 0 2 PLACES ± 0.05  
 ▽ = 0 1 PLACE ± 0.3  
 ▽ = 0 0 PLACES ± 0.5  
 ▽ = 0 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

# PART LIST

| MOLEX P/N   | ENGINEERING No. | LENGTH (MM) |
|-------------|-----------------|-------------|
| 1210400823  | E162P3N1006P    | 1000        |
| 1210400824  | E162P3N3006P    | 3000        |
| 1210400825  | E162P3N5006P    | 5000        |
| *1210400832 | E162N2N1002P    | 1000        |
| *1210400840 | E162N3N75021    | 7500        |
| *1210400842 | E162N3N13K21    | 13000       |
| *1210400843 | E162N3N15K21    | 15000       |
| *1210400869 | E161N2N10K21    | 10000       |
| *1210400876 | E162N2N05021    | 500         |
| 1210400891  | E162I2N50061    | 5000        |
| *1210400903 | E162N4N20021    | 2000        |
| *1210400904 | E162I2N20021    | 2000        |
| 1210400915  | E162N3N06062    | 600         |
| *1210400919 | E162P2N30021    | 3000        |
| *1210400920 | E162A2A1002R    | 1000        |
| *1210400927 | E162N3N20023    | 2000        |
| *1210400934 | E162I4N50021    | 5000        |
| 1210400935  | E161N3N50061    | 5000        |
| *1210400936 | E162P3N5002P    | 5000        |
| 1210400963  | E162I4N50062    | 5000        |
| 1210400964  | E162I4N10K62    | 10000       |
| *1210400977 | E162N4N50021    | 5000        |
| 1210400985  | E161I2N15021    | 1500        |
| 1210401000  | E161N2N07021    | 700         |
| 1210401003  | E161N2N1002P    | 1000        |

| MOLEX P/N   | ENGINEERING No. | LENGTH (MM) |
|-------------|-----------------|-------------|
| *1210401015 | E162P3N30021    | 3000        |
| *1210401016 | E162P3N50021    | 5000        |
| 1210401133  | E161N3N20022    | 2000        |
| *1210401136 | E162A3A20K2R    | 20000       |
| 1210401148  | E162P2N06061    | 600         |
| 1210401149  | E162P2N20061    | 2000        |
| 1210401150  | E162N2N0506R    | 500         |
| 1210401152  | E162P2N04061    | 400         |
| 1210401200  | E162N2N50061    | 5000        |
| 1210401203  | E162P3N1506P    | 1500        |
| *1210401284 | E162N4N10021    | 1000        |
| *1210401285 | E162N4N30021    | 3000        |
| *1210401287 | E162N3N2002P    | 2000        |
| 1210401310  | E162N2N10061    | 1000        |
| 1210401311  | E162I2N10061    | 1000        |
| *1210401312 | E162I2N10021    | 1000        |
| 1210401313  | E162A2A10061    | 1000        |
| *1210401314 | E162A2A10021    | 1000        |
| 1210401315  | E162A2A30061    | 3000        |
| *1210401316 | E162A2A30021    | 3000        |
| 1210401317  | E162A2A50061    | 5000        |
| *1210401318 | E162A2A50021    | 5000        |
| *1210401337 | E162B2A50021    | 5000        |
| *1210401356 | E162R4N3002P    | 3000        |

| MOLEX P/N   | ENGINEERING No. | LENGTH (MM) |
|-------------|-----------------|-------------|
| 1210401366  | E162N2N05061    | 500         |
| 1210401395  | E162N2N20061    | 2000        |
| 1210401405  | E162P3N50061    | 5000        |
| *1210401411 | E162N3N05521    | 550         |
| *1210401413 | E162I2N15061    | 1500        |
| 1210401431  | E161N3N1002P    | 1000        |
| 1210401432  | E161N3N1006P    | 1000        |
| *1210401458 | E162N2N07221    | 720         |
| *1210401459 | E162N2N15021    | 1500        |
| 1210401480  | E162B3A3002P    | 3000        |
| 1210401501  | E161N3N0606P    | 600         |
| 1210401502  | E161N3N0756P    | 750         |
| 1210401512  | E161N2N3002P    | 3000        |
| *2210400001 | E162W3A30021    | 3000        |

**NOTES:**

- \*-INDICATES SPACER USED IN THE ASSEMBLY.
- \$-INDICATES CABLE-TIE USED IN THE ASSEMBLY.
- LABEL-USED IN P/N 1210401315, 1210401317 & 1210401318.

**TECHNICAL DATA:**

**ELECTRICAL:**

CURRENT MAX. : 5.0A

VOLTAGE: 250V

CONTACT RESISTANCE: ≤15 mOhm MAX.

**ENVIRONMENTAL:**

OPERATING TEMPERATURE:

NITRILE RUBBER (NBR) GASKET: -40°C TO +90°C

SILICONE GASKET: -40°C TO +125°C

PROTECTION: IP65

|   |   |  |                           |  |   |                          |  |
|---|---|--|---------------------------|--|---|--------------------------|--|
| <b>SYMBOLS</b><br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | CURRENT REV DESC: REDRAWN |  | <br>MPM E16XXXXXXXXXX<br>PRODUCT CUSTOMER DRAWING |                          |  |
|   | DIMENSION UNITS: <b>mm</b><br>SCALE: <b>1:1</b>   | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>ANGULAR TOL ± 1.0°                  |                           |  |   |                          | EC NO: 621216<br>DRWN: APAWLAK01 2019/07/24<br>CHK'D: RSILLER 2019/07/29<br>APPR: RSILLER 2019/07/29 |
|   | 4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.05<br>1 PLACE ± 0.3<br>0 PLACES ± 0.5  | INITIAL REVISION:<br>DRWN: MDHARMANTI 2019/01/14<br>APPR: RSILLER 2019/02/01 |                           | DOCUMENT NUMBER: <b>1210400254</b><br>DOC TYPE: PSD<br>DOC PART: 000<br>REVISION: A1 |   |                          |  |
|   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  | THIRD ANGLE PROJECTION<br>   | DRAWING: <b>A3-SIZE</b>   | SERIES: <b>121040</b>  | MATERIAL NUMBER: SEE PART LIST                    | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 3 OF 3   |

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