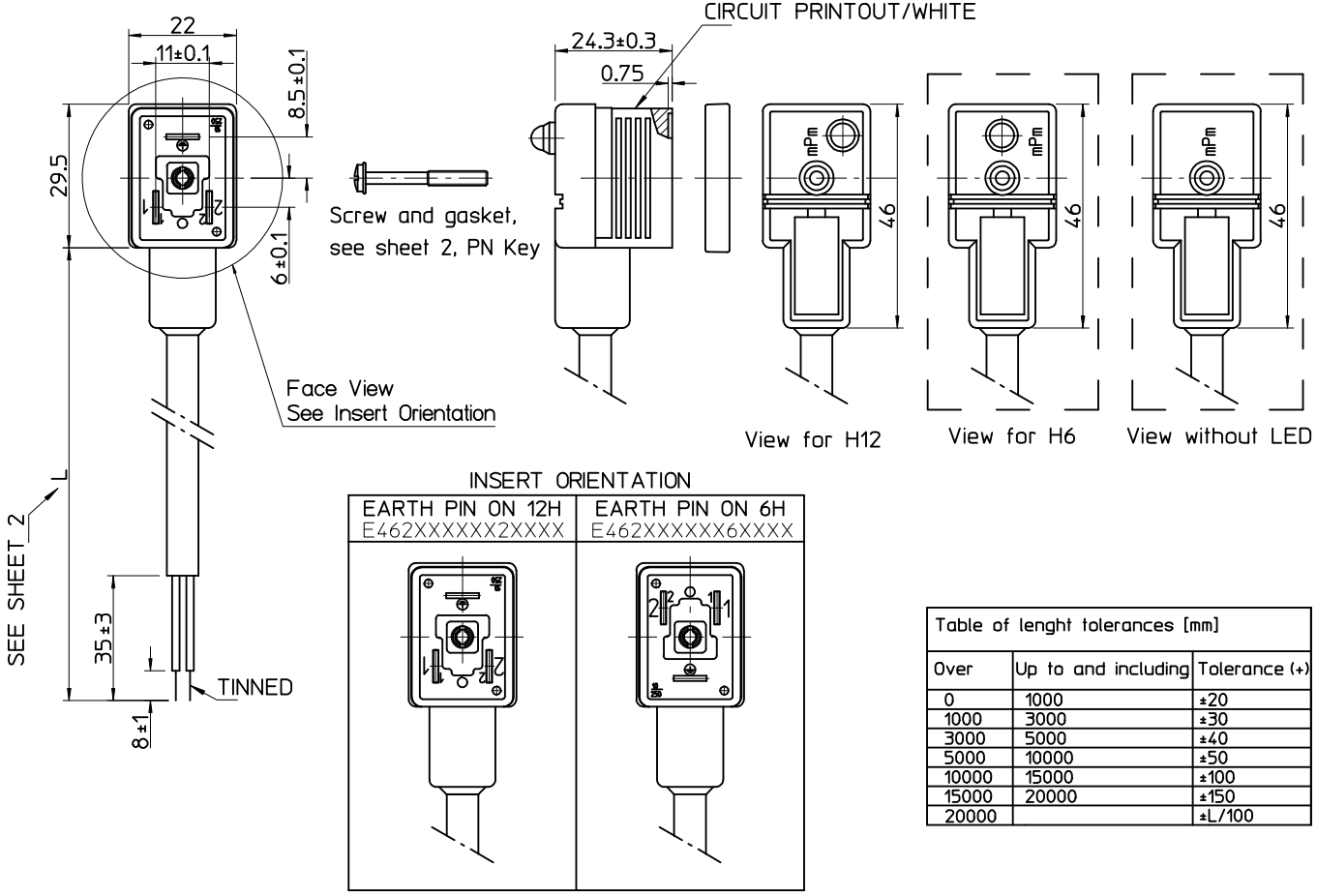
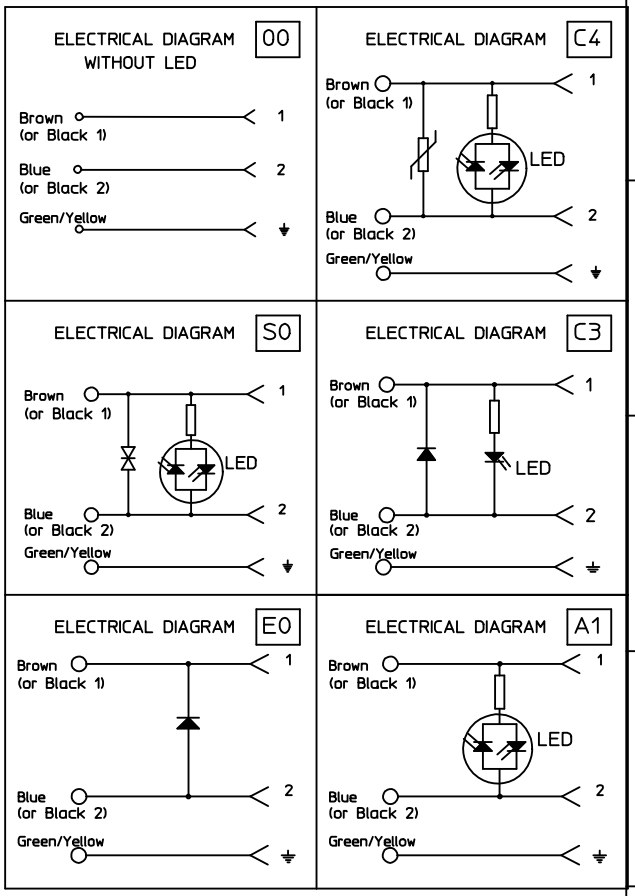



INSERT ORIENTATION

| EARTH PIN ON 12H | EARTH PIN ON 6H |
|---|---|
| E462XXXXXX2XXXX | E462XXXXXX6XXXX |



| 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 |




DRAWING UPDATED
EC NO: IPG2013-1493
DRWN:MDYSZEWSKA 2013/03/27
CHKD:JMARSZALEK 2013/03/27
APPR:MIWASIECZKO 2013/03/28
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: 2012/10/31
CHECKED BY: MSZWAJKOWSKI DATE: 2012/10/31
APPROVED BY: MIWASIECZKO DATE: 2012/11/09
MATERIAL NO.: MATRIX DRAWING

TITLE: E462XXXXXXXXX FORM INDUSTRIAL

molex

DOCUMENT NO.: SD-121050-003
SHEET NO.: 1 OF 4
SIZE: A3

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E 4 6 2 X X X X X X X X X X X X

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

NUMBER OF WIRES:
1=2 WIRES
2=2 WIRES + EARTH

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 CM
Eg.:050=50 CM, 300=300 CM, 10K=1000 CM.

EARTH PIN LOCATION:
2=EARTH ON 12H,
6=EARTH ON 6H.

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

INTERNAL CIRQUIT
WIREING CONFIGURATION

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 |
| RED LED | GREEN LED | YELLOW LED |

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APPR:MIWASIECZKO 2013/03/28
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: 2012/10/31
CHECKED BY: MSZWAJKOWSKI DATE: 2012/10/31
APPROVED BY: MIWASIECZKO DATE: 2012/11/09
MATERIAL NO.: MATRIX DRAWING

TITLE
E462XXXXXXXXXX
FORM INDUSTRIAL

molex

DOCUMENT NO.: SD-121050-003
SHEET NO.: 2 OF 4
SIZE: A3

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## 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 | - | - | - |
| 1210180467 | A | 2 | 2 | 20 AWG | PVC CSA/UL 2661 | Black | 5,5+/-0,2 mm | OK. | OK. |
| - | 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+/-0,2 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 | 5,5+/-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 | - | - | - |
| - | 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+/-0,2 mm | OK. | OK. |
| - | I | 2 | 3 | 0,5 mm2 | PVC CEI 2022 II O.R. | Grey RAL7035 | 5,5+/-0,2 mm | OK. | OK. |
| 1210180146 | I | 2 | 4 | 0,5 mm2 | PVC CEI 2022 II O.R. | Grey RAL7035 | 6,5+/-0,2 mm | 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 | 5,1+ 0,2-0 mm | OK. | OK. |
| 1210180064 | N | 2 | 3 | 0,5 mm2 | PVCH03 | Black | 5,4+ 0,2-0 mm | OK. | OK. |
| 1210180153 | N | 2 | 4 | 0,5 mm2 | PVCH03 | Black | 5,75+0,2-0 mm | OK. | OK. |
| 1210180046 | P | 2 | 2 | 0,5 mm2 | PUR - BLEND | Black | 5,5+/-0,2 mm | OK. | OK. |
| - | P | 2 | 3 | 0,5 mm2 | PUR - BLEND | Black | 5,5+/-0,2 mm | OK. | OK. |
| 1210180302 | P | 2 | 4 | 0,5 mm2 | PUR - BLEND | Black | - | - | - |
| - | P | 2 | 5 | 0,5 mm2 | PUR - BLEND | Black | 7+/-0,2 mm | OK. | OK. |
| 1210180409 | A | 3 | 2 | 18 AWG | PVC CSA/UL 2661 | Black | 6,5+/-0,2 mm | OK. | |
| 1210180129 | A | 3 | 3 | 18 AWG | PVC CSA/UL 2661 | Black | 6,5+/-0,2 mm | OK. | |
| 1210180159 | A | 3 | 4 | 18 AWG | PVC CSA/UL 2661 | Black | 7+/-0,2 mm | OK. | |
| - | A | 3 | 5 | 18 AWG | PVC CSA/UL 2661 | Black | 7,8+/-0,2 mm | OK. | |
| 1210180351 | B | 3 | 2 | 18 AWG | PUR CSA/UL 20668 | Black | 6,5+/-0,2 mm | OK. | |
| 1210180127 | B | 3 | 3 | 18 AWG | PUR CSA/UL 20668 | Black | 6,5+/-0,2 mm | OK. | |
| 1210180127 | B | 3 | 4 | 18 AWG | PUR CSA/UL 20668 | Black | 7+/-0,2 mm | OK. | |
| - | 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 | - | - | - |
| 1210180145 | D | 3 | 4 | 0,75 mm2 | PVC TI2 CEI 20-20 | Grey | - | - | - |
| 1210180120 | I | 3 | 3 | 0,75 mm2 | PVC CEI 2022 II O.R. | Grey RAL7035 | - | - | - |
| 1210180143 | I | 3 | 4 | 0,75 mm2 | PVC CEI 2022 II O.R. | Grey RAL7035 | - | - | - |
| 1210180032 | N | 3 | 2 | 0,75 mm2 | PVCH05 | Black | 6,2+ 0,2-0 mm | OK. | |
| 1210180069 | N | 3 | 3 | 0,75 mm2 | PVCH05 | Black | 6,6+0,2-0 mm | OK. | |
| - | N | 3 | 4 | 0,75 mm2 | PVCH05 | Black | 7,15+0,2-0 mm | OK. | |
| 1210180174 | N | 3 | 5 | 0,75 mm2 | PVCH05 | Black | 8,0+0,2-0 mm | OK. | |
| - | 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 | - | - | - |
| 1210180309 | Y | 3 | 3 | 0,75 mm2 | SIL/0300 | Red | 6,5+/-0,2 mm | - | - |
| 1210180081 | F | 4 | 3 | 1 mm2 | CNOMO | Grey RAL7000 | - | - | - |
| - | 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+0,2-0 mm | OK. | |
| 1210180082 | N | 4 | 3 | 1 mm2 | PVCH05 | Black | 6,9+0,2-0 mm | OK. | |
| 1210180117 | R | 4 | 3 | 1 mm2 | TPR HAL. FREE | Black | - | - | - |
| 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 | - | - | - |
| - | 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 | - | - | - |

## 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 UPDATED
EC NO: IPG2013-1493
DRWN:MDYSZEWSKA 2013/03/27
CH'KD:JMARSZALEK 2013/03/27
APPR:MIWASIECZKO 2013/03/28
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: 2012/10/31
CHECKED BY: MSZWAJKOWSKI DATE: 2012/10/31
APPROVED BY: MIWASIECZKO DATE: 2012/11/09
MATERIAL NO.: MARTRIX DRAWING

TITLE: E462XXXXXXXXXX FORM INDUSTRIAL

molex

DOCUMENT NO.: SD-121050-003
SHEET NO.: 3 OF 4
SIZE: A3

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10 9 8 7 6 5 4 3 2 1

F E D C B A

PART LIST

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| 1210501097 | E462N3N10021C4H |
| 1210501108 | E462N3N10061C4H |
| 1210503473 | E462N3N10021C4M |
| 1210503474 | E462N3N10061CM |

| REV | DESCRIPTION |
|---|---|
| B | DRAWING UPDATED<br>EC NO: IPG2013-1493<br>DRWN:MDYSZEWSKA 2013/03/27<br>CH'KD:JMARSZALEK 2013/03/27<br>APPR:MIWASIECZKO 2013/03/28 |

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 | SCALE | DESIGN UNITS | |
|---|---|---|---|
| MM ONLY | 1:1 | METRIC | FIRST ANGLE PROJECTION |

| | DATE |
|---|---|
| DRAWN BY: JMARSZALEK | 2012/10/31 |
| CHECKED BY: MSZWAJKOWSKI | 2012/10/31 |
| APPROVED BY: MIWASIECZKO | 2012/11/09 |

TITLE: E462XXXXXXXXXX FORM INDUSTRIAL

molex

MATERIAL NO.: MATRIX DRAWING

DOCUMENT NO.: SD-121050-003

SHEET NO.: 4 OF 4

SIZE: A3

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