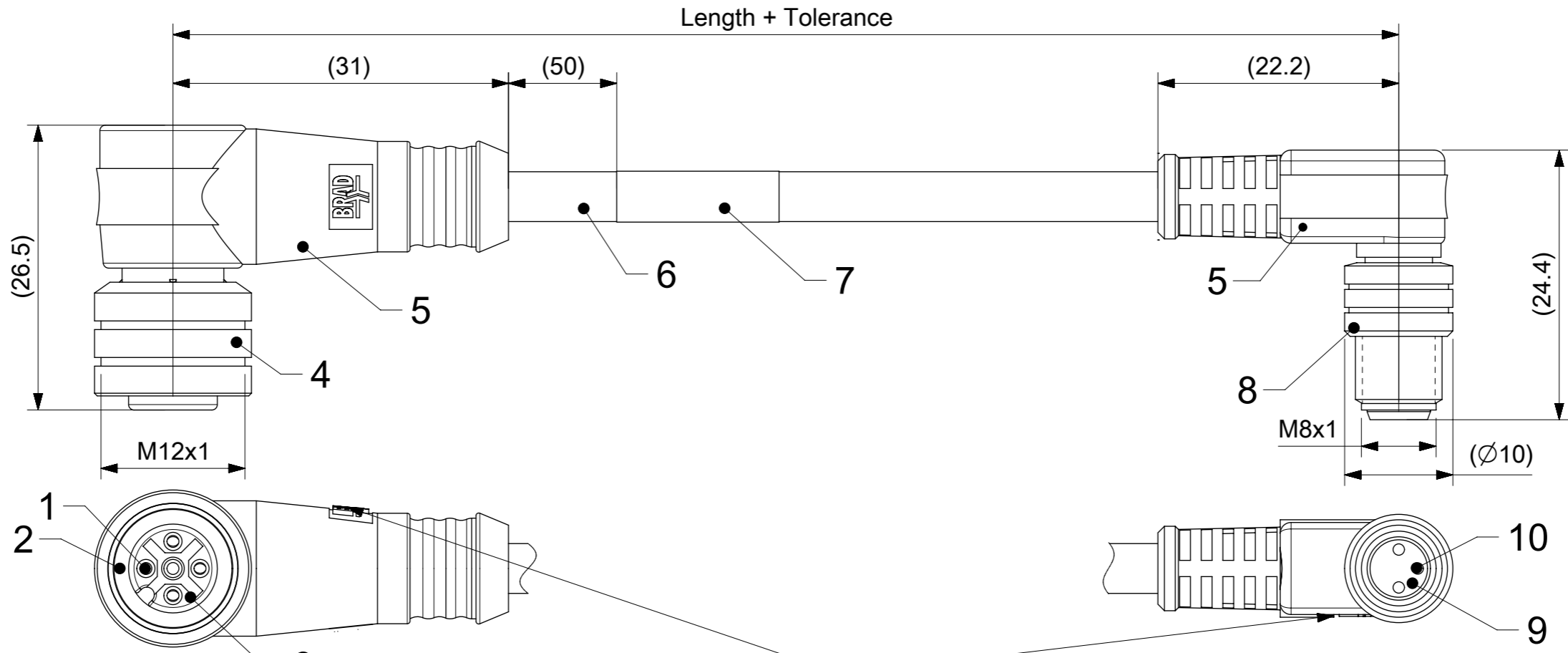


FEMALE PLUG M12 90° TO MALE PLUG M8 90°

REVISION A1 ADDED INFORMATION ABOUT BRAD LOGO



NOTES:
 RATED VOLTAGE: 3 contacts 60V AC/DC
 4 and 5 contacts 30V AC/DC
 CURRENT RATING: 3, 4, 5 contacts 3A
 PROTECTION CLASS: IP 67
 TEMPERATURE: -25°C / +80°C

A1 BRAD LOGO IS ONLY ONE SIDE ON THE OVERMOULD

CONTACTS POSITION FRONT VIEW:

| | 3 CONTACTS | | 4 CONTACTS | | 5 CONTACTS | |
|---|------------|-------|------------|-------|------------|-------|
| M8 - MALE | | | | | | |
| M12 - FEMALE | | | | | | |
| CONNECTIONS | PIN | WIRE | PIN | WIRE | PIN | WIRE |
| | 1 | BROWN | 1 | BROWN | 1 | BROWN |
| | 3 | BLUE | 2 | WHITE | 2 | WHITE |
| | 4 | BLACK | 3 | BLUE | 3 | BLUE |
| | | | 4 | BLACK | 4 | BLACK |
| | | | | 5 | GREY | |
| CODING M8 ACCORDING TO IEC 61076-2-104 | | | | | | |
| CODING M12 ACCORDING TO IEC IEC 61076-2-101 | | | | | | |

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|------|-----------|-------------------------|-------------|----------------------|
| 10 | 3 / 4 / 5 | CONTACT M8 MALE | BRASS | SELECTIVE Au OVER Ni |
| 9 | 1 | INSERT MALE M8 BLACK | TPU | --- |
| 8 | 1 | COUPLING NUT M8 MALE | BRASS | NICKEL |
| 7 | 1 | LABEL YELLOW | VINYL | --- |
| 6 | - | CABLE | SEE SHEET 2 | --- |
| 5 | - | OVERMOULDING BLACK | TPU | --- |
| 4 | 1 | COUPLING NUT M12 FEMALE | BRASS | NICKEL |
| 3 | 1 | INSERT FEMALE M12 BLACK | PUR | --- |
| 2 | 1 | GASKET RED | FPM | --- |
| 1 | 3 / 4 / 5 | CONTACT M12 FEMALE | BRASS | SELECTIVE Au OVER Ni |

| | | | | |
|---|-------------------------------|------------------------------|---------------------------------------|---------------|
| SYMBOLS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: mm SCALE: 2:1 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL: ± ° 4 PLACES: ± 3 PLACES: ± 2 PLACES: ± 1 PLACE: ± 0 PLACES: ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING: A3-SIZE SERIES: 120066 | CURRENT REV DESC: | | CSE M12 M8 XP AC FE RA X MA RA XM | |
| | EC NO: 171733 | | | |
| | DRWN: AKONDRACIUK 2018/01/31 | | DOC TYPE: PSD | DOC PART: 000 |
| | CHK'D: MIWASIECZKO 2018/02/05 | | REVISION: A1 | |
| APPR: MIWASIECZKO 2018/02/05 | | PRODUCT CUSTOMER DRAWING | | |
| INITIAL REVISION: | | SHEET NUMBER: 1 OF 3 | | |
| DRWN: AKONDRACIUK 2017/02/22 | | CUSTOMER: GENERAL MARKET | | |
| APPR: MIWASIECZKO 2017/04/27 | | MATERIAL NUMBER: SEE SHEET 3 | | |

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

8 4 X 0 3 3 X X X X X X X X

48=Nano-Change
M8x1 to
Micro-Change
M12x1

Poles:
3=3 Poles
4=4 Poles
5=5 Poles

Heads style:
033=Plug Female 90
to Plug Male 90

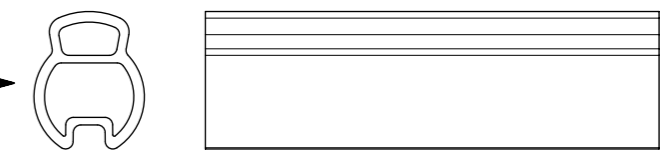
Cable type: See Table

Units:
M=Meter

Length
Examples:
005=0.5 units
010=1 units
100=10 units

Overmold color:
Blank (Standard)=Black

H= 2 pcs. of
I/D Carrier PVC Transparent



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

| CABLE TYPE | NO. OF WIRES | CROSS SECTION | CABLE JACKET | UL | CSA | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN | SHIELD |
|------------|--------------|---------------------|---------------|--------------|-------------------------|--------------------------------|---------------------------------|------------|--------|
| E02 | 3 / 4 / 5 | 0.25mm ² | PVC Black | UL 2464/1729 | C22.2 I/II A/B 80°/300V | -30°C to +80°C 10xO.D. | -10°C to +80°C 15xO.D. | - | - |
| P02 | 3 / 4 / 5 | 0.25mm ² | PUR/PVC BLACK | - | - | -30°C to +80°C 7xO.D. | -5°C to +80°C 15xO.D. | - | - |
| I03 | 3 / 4 / 5 | 0.34mm ² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |

Table of length tolerances

| Over | Up to and including | Tolerance |
|-------|---------------------|---------------|
| 0 | 305 | +19 |
| 305 | 915 | +45 |
| 915 | 1830 | +56 |
| 1830 | 3660 | +89 |
| 3660 | 7320 | +165 |
| 7320 | 14640 | +317 |
| 14640 | 30500 | +610 |
| 30500 | > | +2% of length |

| | | | | | |
|---------|---|-------|-------------------------------|----------------|--------------------------|
| SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | CURRENT REV DESC: | | molex |
| | DIMENSION UNITS | SCALE | EC NO: 171733 | | |
| | mm | 2:1 | DRWN: AKONDRACIUK 2018/01/31 | | |
| | GENERAL TOLERANCES (UNLESS SPECIFIED) | | CHK'D: MIWASIECZKO 2018/02/05 | | |
| ▽ = 0 | ANGULAR TOL ± ° | | APPR: MIWASIECZKO 2018/02/05 | | PRODUCT CUSTOMER DRAWING |
| ▽ = 0 | 4 PLACES ± | | INITIAL REVISION: | | |
| ▽ = 0 | 3 PLACES ± | | DRWN: AKONDRACIUK 2017/02/22 | | DOCUMENT NUMBER |
| ▽ = 0 | 2 PLACES ± | | APPR: MIWASIECZKO 2017/04/27 | | |
| ▽ = 0 | 1 PLACE ± | | MATERIAL NUMBER | | CUSTOMER |
| ▽ = 0 | 0 PLACES ± | | 1200668467 | | |
| □ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES |
| ▽ = 0 | | | | A3-SIZE | 120066 |
| | | | SEE SHEET 3 | GENERAL MARKET | 2 OF 3 |

