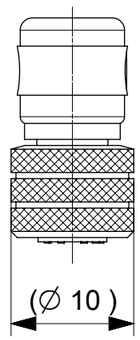
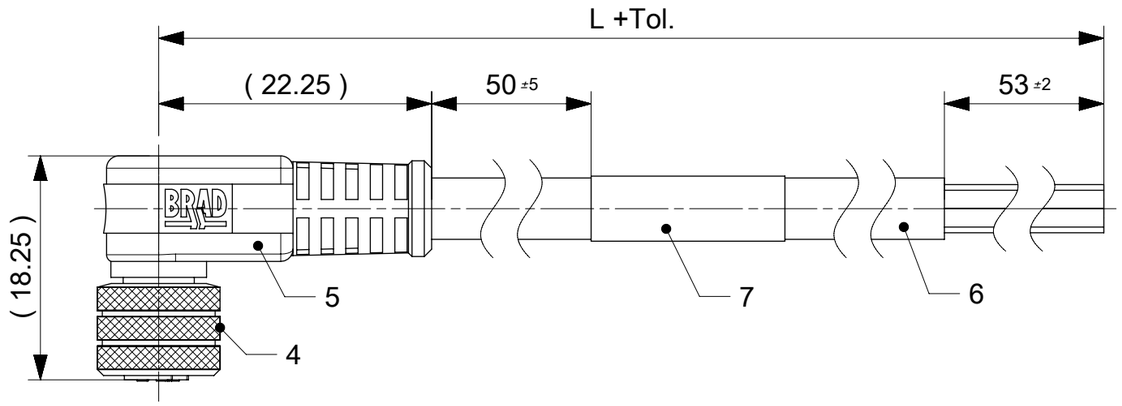
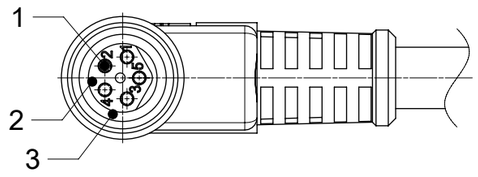
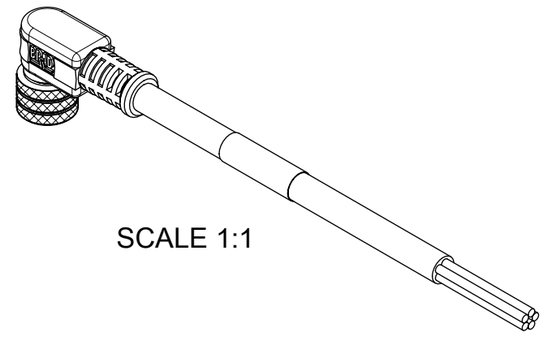
# FEMALE PLUG M8 90° ANGLED



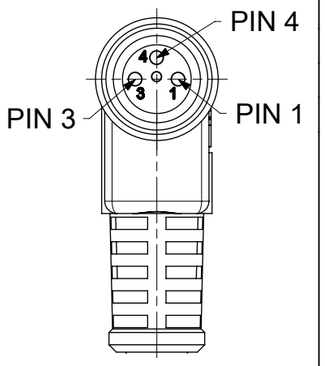
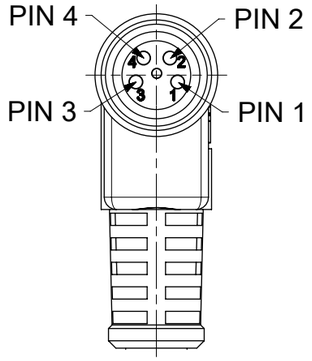
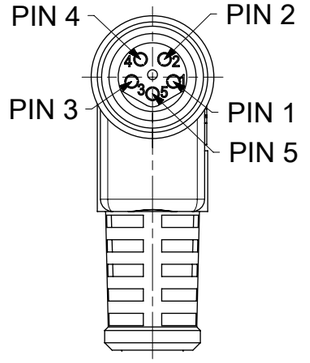




SCALE 1:1

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
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

## CONTACT POSITION FRONT VIEW:

| 3 CONTACTS | 4 CONTACTS | 5 CONTACTS |
|---|---|---|
|  |  |  |



| PIN | WIRE | PIN | WIRE | PIN | WIRE |
|---|---|---|---|---|---|
| 1 | BROWN | 1 | BROWN | 1 | BROWN |
| 2 | - | 2 | WHITE | 2 | WHITE |
| 3 | BLUE | 3 | BLUE | 3 | BLUE |
| 4 | BLACK | 4 | BLACK | 4 | BLACK |
| | | | | 5 | GREY |

CODING ACCORDING TO IEC 61076-2-104

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|---|---|---|---|---|
| 7 | 1 | LABEL | VINYL | - |
| | - | PRINTING FOR CABLES IXX | - | - |
| 6 | - | CABLE | SEE SHEET 2 | - |
| 5 | - | OVERMOULDING BLACK | TPU | - |
| 4 | 1 | NUT M8 FEMALE | BRASS | NICKEL |
| 3 | 1 | O-RING RED | FKM | - |
| 2 | 1 | INSERT FEMALE BLACK | TPU | - |
| 1 | 3 / 4 / 5 | CONTACT M8 FEMALE | BRASS | SELECTIVE Au OVER Ni |

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| DIMENSION UNITS | SCALE |
|---|---|
| mm | 2:1 |

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#517104

EC NO: 836952
DRWN: SAMPRS 2025/10/10
CHK'D: GGA 2025/10/16
APPR: GGA 2025/10/16

INITIAL REVISION:
DRWN: FGAIK 2016/11/02
APPR: RSILLER 2016/11/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120086

molex

CSE M8 XP AC BC RA XM SE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200868179 | PSD | 000 | A7 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE PART LIST SH 3 | GENERAL MARKET | 1 OF 3 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/10/16 19:09:02 |
|---|---|---|---|

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

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

OPTIONS

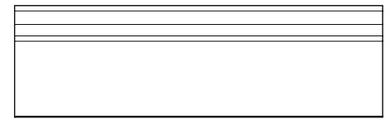
| 4 | 0 | X | 0 | 0 | 1 | X | X | X | M | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

- 40=Nano-Change M8x1 Single ended
- Poles: 3=3 Contacts 4=4 Contacts 5=5 Contacts
- Head style: 001=Plug Female Angled
- Cable type: See Table
- Units: M=Meter
- Length Examples: 005=0.5 unit 010=1 unit 100=10 units
- Overmold color: Blank (Standard)=Black G=Black / Y=Yellow For cables K05, A10 = Yellow

  Nut: Blank (standard)=Knurled Brass Ni Plated 1=Stainless Steel 7=Teflon coat

  H= 2 pcs. of I/D Carrier PVC Transparent (Cables Ixx & P82 always with 2 pcs. of I/D Carrier)





## CABLE INFORMATION

| CABLE TYPE | NO. OF WIRES | CROSS SECTION | CABLE JACKET | UL | CSA | TEMP. RATING | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN | SHIELD |
|---|---|---|---|---|---|---|---|---|---|---|
| A10 | 4 | 0.25mm² | PVC YELLOW | UL 2661/1731 | I/II A/B 105°C/300V | 105°C | - | - | - | NO |
| E02 | 3 / 4 / 5 | 0.25mm² | PVC BLACK | UL 2464/1729 | C22.2 I/II A/B 80°C/300V | - | -30°C to +80°C, 10xO.D. | -10°C to +80°C, 15xO.D. | - | NO |
| H08 | 3 / 4 / 5 | 0.25mm² | PUR BLACK LS0H | UL 21198/10493 | C22.2 I/II A/B 80°C/300V | - | -40°C to +80°C, 5xO.D. | -25°C to +80°C, 10xO.D. | 2 000 000 cycles, Temp max 60°C | NO |
| H09 | 4 | 0.34mm² | PUR BLACK LS0H | UL 21198/10493 | C22.2 I/II A/B 80°C/300V | - | -40°C to +80°C, 5xO.D. | -25°C to +80°C, 10xO.D. | 2 000 000 cycles, Temp max 60°C | NO |
| I02 | 3 / 4 | 0.25mm² | PVC (CEI) GREY | - | - | - | -30°C to +70°C | -5°C to +70°C | - | NO |
| K05 | 3 | 0.34mm² | TPE YELLOW | UL ITC OR PLTC | I/II A/B 90°C/300V | 105°C | - | - | - | NO |
| P02 | 3 / 4 / 5 | 0.25mm² | PUR / PVC BLACK | - | - | - | -30°C to +80°C, 7xO.D. | -5°C to +80°C, 15xO.D. | - | NO |
| P82 | 3 / 4 | 0.34mm² | PUR ORANGE | - | - | -50°C to +105°C | - | - | - | NO |

## CABLE LENGTH TOLERANCES

| OVER [mm] | UP TO AND INCLUDING [mm] | TOLERANCES [mm] |
|---|---|---|
| 0 | 305 | +19 |
| 305 | 915 | +45 |
| 915 | 1830 | +56 |
| 1830 | 3660 | +89 |
| 3660 | 7320 | +165 |
| 7320 | 14640 | +317 |
| 14640 | 30500 | +610 |
| 30500 | > | +2% of finished length |

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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#517104

EC NO: 836952

| | | |
|---|---|---|
| DRWN: | SAMPRS | 2025/10/10 |
| CHK'D: | GGA | 2025/10/16 |
| APPR: | GGA | 2025/10/16 |

INITIAL REVISION:

| | | |
|---|---|---|
| DRWN: | FGAIK | 2016/11/02 |
| APPR: | RSILLER | 2016/11/14 |

molex

CSE M8 XP AC BC RA XM SE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200868179 | PSD | 000 | A7 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120086 | SEE PART LIST SH 3 | GENERAL MARKET | 2 OF 3 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/10/16 19:09:02 |
|---|---|---|---|

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

## PART LIST

| No. | MOLEX PN | Engineering No. | L [mm] |
|---|---|---|---|
| 1 | 1200270097 | 403001I02M030 | 3000 |
| 2 | 1200270098 | 403001I02M050 | 5000 |
| 3 | 1200270161 | 404001I02M030 | 3000 |
| 4 | 1200270162 | 404001I02M050 | 5000 |
| 5 | 1200270163 | 404001I02M100 | 10000 |
| 6 | 1200270474 | 403001I02M100 | 10000 |
| 9 | 1200271333 | 403001H08M020G | 2000 |
| 10 | 1200271415 | 403001H08M050G | 5000 |
| 11 | 1200860177 | 404001A10M040 | 4000 |
| 12 | 1200860178 | 404001A10M050 | 5000 |
| 13 | 1200860180 | 404001A10M100 | 10000 |
| 14 | 1200860352 | 403001K05M100 | 10000 |
| 15 | 1200868004 | 403001H08M100 | 10000 |
| 16 | 1200868021 | 403001E02M030 | 3000 |
| 18 | 1200868054 | 403001H08M050 | 5000 |
| 19 | 1200868055 | 404001H08M010 | 1000 |
| 20 | 1200868057 | 404001E02M150 | 15000 |
| 21 | 1200868062 | 403001P02M100 | 10000 |
| 22 | 1200868077 | 404001H08M100 | 10000 |
| 23 | 1200868082 | 403001P02M150 | 15000 |
| 24 | 1200868091 | 403001H08M030 | 3000 |
| 25 | 1200868155 | 403001P02M020 | 2000 |
| 26 | 1200868159 | 404001P02M020 | 2000 |
| 27 | 1200868160 | 404001P02M100 | 10000 |
| 28 | 1200868178 | 405001E02M020 | 2000 |
| 29 | 1200868179 | 405001E02M050 | 5000 |
| 30 | 1200868180 | 405001E02M100 | 10000 |
| 31 | 1200868208 | 404001I02M020 | 2000 |
| 32 | 1200868210 | 403001H08M015 | 1500 |
| 33 | 1200868211 | 404001H08M050 | 5000 |

| No. | MOLEX PN | Engineering No. | L [mm] |
|---|---|---|---|
| 34 | 1200868223 | 405001P02M050 | 5000 |
| 35 | 1200868293 | 403001E02M010 | 1000 |
| 36 | 1200868294 | 403001E02M060 | 6000 |
| 37 | 1200868295 | 403001E02M150 | 15000 |
| 38 | 1200868296 | 403001E02M200 | 20000 |
| 39 | 1200868297 | 403001E02M250 | 25000 |
| 40 | 1200868298 | 403001I02M005 | 500 |
| 41 | 1200868299 | 403001I02M006 | 600 |
| 42 | 1200868300 | 403001I02M010 | 1000 |
| 43 | 1200868301 | 403001I02M025 | 2500 |
| 44 | 1200868356 | 404001E02M010 | 1000 |
| 45 | 1200868357 | 404001E02M0201 | 2000 |
| 46 | 1200868359 | 404001E02M050H | 5000 |
| 47 | 1200868360 | 404001E02M200 | 20000 |
| 48 | 1200868361 | 404001E02M030 | 3000 |
| 49 | 1200868362 | 404001E02M050G | 5000 |
| 50 | 1200868363 | 404001H08M030 | 3000 |
| 51 | 1200868364 | 404001I02M150 | 15000 |
| 52 | 1200868365 | 404001P02M150 | 15000 |
| 53 | 1200868391 | 405001P02M020 | 2000 |
| 54 | 1200868396 | 405001H08M020 | 2000 |
| 55 | 1200868406 | 405001H08M050 | 5000 |
| 56 | 1200868407 | 405001H08M100 | 10000 |
| 57 | 1200868422 | 403001E02M0501 | 5000 |
| 58 | 1200868441 | 403001I02M020Y | 2000 |
| 59 | 1200868448 | 403001E02M050Y | 5000 |
| 60 | 1200868449 | 403001E02M100Y | 10000 |
| 61 | 1200868457 | 404001E02M050Y | 5000 |
| 62 | 1200868458 | 404001E02M100Y | 10000 |
| 63 | 1200868459 | 404001I02M050Y | 5000 |
| 64 | 1200868462 | 403001P82M050Y | 5000 |
| 65 | 1200868464 | 403001H08M100Y | 10000 |
| 66 | 1200868465 | 403001P82M0107Y | 1000 |
| 67 | 1200868466 | 403001H08M050Y | 5000 |

| No. | MOLEX PN | Engineering No. | L [mm] |
|---|---|---|---|
| 68 | 1200868484 | 403001I02M050Y | 5000 |
| 69 | 1200868485 | 403001I02M100Y | 10000 |
| 70 | 1200868497 | 403001H08M010 | 1000 |
| 71 | 1200868516 | 403001E02M300 | 30000 |
| 72 | 1200868519 | 403001P02M010 | 1000 |
| 73 | 1200868533 | 404001P02M010 | 1000 |
| 74 | 1200868589 | 403001P02M1001 | 10000 |
| 75 | 1200868592 | 403001P02M003 | 300 |
| 76 | 1200868593 | 403001P02M006 | 600 |
| 77 | 1200868594 | 403001P02M009 | 900 |
| 78 | 1200868597 | 403001H08M010Y | 1000 |
| 79 | 1200868727 | 404001H09M100 | 10000 |
| 80 | 1200868728 | 404001H09M200 | 20000 |
| 81 | 1200868830 | 404001H09M050 | 5000 |
| 82 | 1200868848 | 405001H08M010 | 1000 |
| 83 | 1200868856 | 405001E02M010 | 1000 |
| 84 | 1200270090 | 403001E02M020 | 2000 |
| 85 | 1200270092 | 403001E02M050 | 5000 |
| 86 | 1200270093 | 403001E02M100 | 10000 |
| 87 | 1200270152 | 404001E02M020 | 2000 |
| 88 | 1200270153 | 404001E02M050 | 5000 |
| 89 | 1200270154 | 404001E02M100 | 10000 |
| 90 | 1200271328 | 404001H08M020 | 2000 |
| 91 | 1200868007 | 403001P82M010 | 1000 |
| 92 | 1200868052 | 403001H08M020 | 2000 |
| 93 | 1200868081 | 404001P02M050 | 5000 |
| 94 | 1200868089 | 403001P02M050 | 5000 |
| 95 | 1200869025 | 404001H09M005 | 500 |

| No. | MOLEX PN | Engineering No. | L [mm] |
|---|---|---|---|

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| | |
|---|---|
| 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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#517104

EC NO: 836952
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CHK'D: GGA 2025/10/16
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INITIAL REVISION:
DRWN: FGAIK 2016/11/02
APPR: RSILLER 2016/11/14

molex

CSE M8 XP AC BC RA XM SE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200868179 | PSD | 000 | A7 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120086 | SEE PART LIST SH 3 | GENERAL MARKET | 3 OF 3 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/10/16 19:09:02 |
|---|---|---|---|

FORMAT: master-tb-prod-A3
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