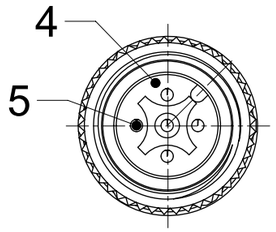
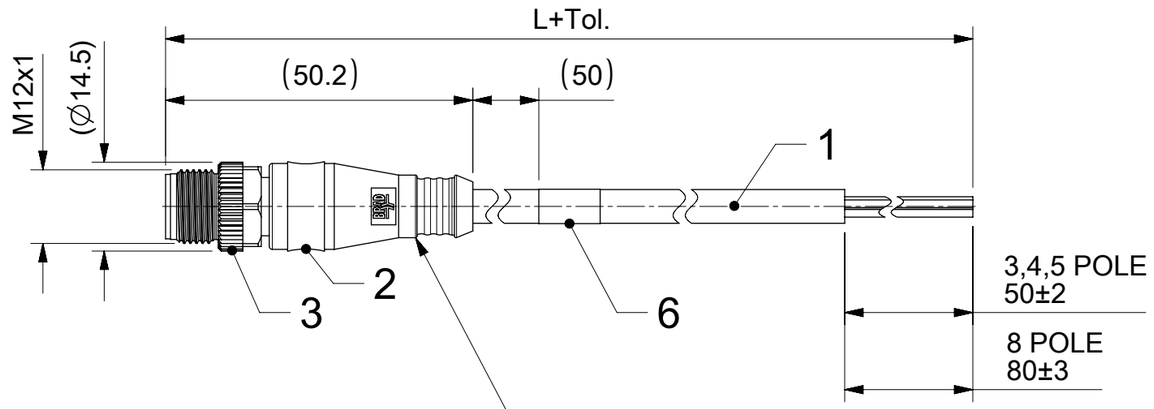
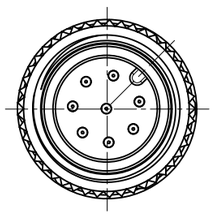
NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
TEMPERATURE: SEE CABLE INFORMATION
INSULATION RESISTANCE: $10^8$ Ω MIN.
MATING CYCLES: MIN. 100
ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION



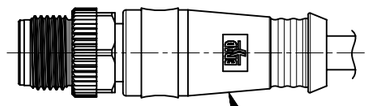

VIEW FROM THE FRONT SIDE
SCALE 2:1




OVERMOULD FOR CABLE DIA. MAX. 6.0 MM

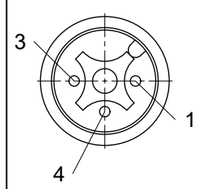
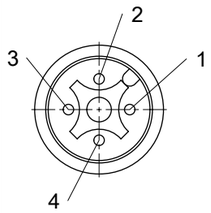
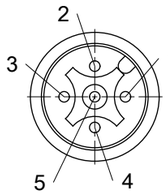
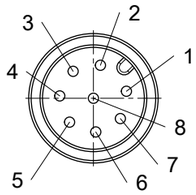


VIEW FROM THE FRONT SIDE
SCALE 2:1



OVERMOULD FOR CABLE DIA. BETWEEN ABOVE MIN. 6.0 TO BELOW MAX. 9.2 MM

CONTACTS POSITION FRONT VIEW:

| | 3 CONTACTS | 4 CONTACTS | 5 CONTACTS | 8 CONTACTS |
|---|---|---|---|---|
| MALE |  |  |  |  |

CONNECTIONS

| PIN | WIRE |
|---|---|
| 1 | BROWN |
| 3 | BLUE |
| 4 | BLACK |

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

| PIN | WIRE |
|---|---|
| 1 | BROWN |
| 2 | WHITE |
| 3 | BLUE |
| 4 | BLACK |
| 5 | GREY OR GREEN/YELLOW |

| PIN | WIRE |
|---|---|
| 1 | WHITE |
| 2 | BROWN |
| 3 | GREEN |
| 4 | YELLOW |
| 5 | GREY |
| 6 | PINK |
| 7 | BLUE |
| 8 | RED |

FOR OPTION SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|---|---|---|---|---|
| 6 | 1 | LABEL | VINYL | YELLOW |
| 5 | 3/4/5 | CONTACT MA | COPPER | GOLD OVER Ni-PLATED |
| | 8 | CONTACT MA | BRASS | GOLD OVER Ni-PLATED |
| 4 | 1 | INSERT M12 MA XP | PUR | BLACK |
| 3 | 1 | COUPLING NUT M12 MA | SEE SHEET 2 | SEE SHEET 2 |
| 2 | - | OVERMOULDING | TPU | SEE SHEET 2 |
| 1 | - | CABLE | SEE SHEET 2 | - |

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0
DIVISIONAL SYMBOLS

| 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: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END. UPDATED INSERT TO OVERMOLD DIM. AND NOTES

EC NO: 789428
DRWN: FDAFERNER 2023/01/31
CHK'D: RSILLER 2024/07/02
APPR: RSILLER 2024/07/02

INITIAL REVISION:
DRWN: MDHARMANTI 2021/10/01
APPR: RSILLER 2021/10/06

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC MA STR WSOR XM SE UNSH

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200659964 | PSD | 000 | B |

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

| DOCUMENT STATUS | P1 | RELEASE DATE | 2024/07/02 09:17:38 |
|---|---|---|---|

FORMAT: master_Sheet-A3
REVISION: J
DATE: 2020/01/1

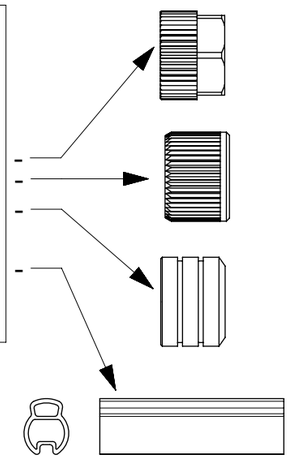
# ENGINEERING NO - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

| 8 | 0 | X | 0 | 0 | 6 | B | X | X | M | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | OPTIONS |

- 88 = M12x1 SINGLE ENDED
- POLES:
  3 = 3 POLES
  4 = 4 POLES
  5 = 5 POLES
  8 = 8 POLES
- HEADER:
  006 = PLUG MALE STRARIGHT
- CABLE TYPE:
  SEE TABLE
- UNIT:
  M = METER
- LENGTH:
  EXAMPLE:
  010 = 1 m
  050 = 5 m
  100 = 10 m
- Overmold color:
  Blank (Standard)=Black
  A=Grey / G=Black / Y=Yellow / R=Red

  Coupling Nut:
  Blank (Standard)=Knurled/Hex Brass, Ni Plated
  5=Knurled Derlin
  7=Knurled Brass Ni Plated, Teflon Coated

  H= 2 pcs. of I/D Carrier PVC Transparent
  (Cable B36 always with
  2 pcs. I/D Carrier)



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: TEMP. / BENDING RADIUS | DRAG CHAIN | CABLE PRODUCT SPECIFICATION | CABLE SPEC. DRAWING |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B30 | 3 / 4 / 5 | 0.34mm² | TPU Black | UL 21215/758 | C22.2 I/II A/B 80°/600V | -40°C to +90°C 5xO.D. | -25°C to +80°C 7.5xO.D. | -5°C to +60°C 7.5xO.D. | up to 5 000 000 cycles at temp 20°C | 1552200001 | SD-120209-001 |
| B33 | 4 / 5 | 0.34mm² | TPU Gray | | | | | | | | SD-120209-001 |
| B36 | 4 / 5 | 0.34mm² | TPU Orange | | | | | | | | SD-120209-001 |
| B41 | 8 | 0.25mm² | TPU Black | | | | | | | | SD-120209-006 |
| B42 | 5 | 0.34mm² | TPU Black | | | | | | | | SD-120209-001 |
| B49 | 8 | 0.25mm² | TPU Orange | | | | | | | | SD-120209-006 |
| B55 | 3 / 4 / 5 | 0.34mm² | TPU Yellow | | | | | | | | n/a |

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FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

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 |

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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC MA STR WSOR XM SE UNSH

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200659964 | PSD | 000 | B |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE SHEET 3 | GENERAL MARKET | 2 OF 3 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2024/07/02 09:17:38 |
|---|---|---|---|

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REVISION: J
DATE: 2020/01/16

PART LIST

| MOLEX P/N | ENGINEERING No. | LENGTH [mm] |
|---|---|---|
| 3P CABLE B30 | | |
| 1200652271 | 803006B30M010 | 1000 |
| 1200652272 | 803006B30M020 | 2000 |
| 1200652273 | 803006B30M050 | 5000 |
| 1200652274 | 803006B30M100 | 10000 |
| 4P CABLE B30 | | |
| 1200656066 | 804006B30M005 | 500 |
| 1200652275 | 804006B30M010 | 1000 |
| 1200652378 | 804006B30M010R | 1000 |
| 1200652276 | 804006B30M020 | 2000 |
| 1200652379 | 804006B30M020R | 2000 |
| 1200656001 | 804006B30M030 | 3000 |
| 1200652380 | 804006B30M030R | 3000 |
| 1200659638 | 804006B30M030R | 3000 |
| 1200656002 | 804006B30M040 | 4000 |
| 1200652381 | 804006B30M040R | 4000 |
| 1200652277 | 804006B30M050 | 5000 |
| 1200652382 | 804006B30M050R | 5000 |
| 1200656296 | 804006B30M080 | 8000 |
| 1200652278 | 804006B30M100 | 10000 |
| 1200659440 | 804006B30M150 | 15000 |
| 1200657234 | 804006B30M200 | 20000 |
| 5P CABLE B30 | | |
| 1200659964 | 805006B30M006 | 600 |
| 1200659526 | 805006B30M010 | 1000 |
| 1200659527 | 805006B30M020 | 2000 |
| 1200656679 | 805006B30M030 | 3000 |
| 1200659528 | 805006B30M050 | 5000 |
| 1200659529 | 805006B30M100 | 10000 |
| 1200656398 | 805006B30M150 | 15000 |
| 1200656399 | 805006B30M200 | 20000 |
| 1200656400 | 805006B30M300 | 30000 |
| 1200656401 | 805006B30M500 | 50000 |

| MOLEX P/N | ENGINEERING No. | LENGTH [mm] |
|---|---|---|
| 4P CABLE B33 | | |
| 1200656489 | 804006B33M003A | 300 |
| 1200656521 | 804006B33M005A | 500 |
| 1200656487 | 804006B33M010A | 1000 |
| 1200659451 | 804006B33M020 | 2000 |
| 1200659596 | 804006B33M020A | 2000 |
| 1200656522 | 804006B33M030A | 3000 |
| 1200659597 | 804006B33M050A | 5000 |
| 1200657152 | 804006B33M070A | 7000 |
| 1200656488 | 804006B33M100A | 10000 |
| 1200656614 | 804006B33M150A | 15000 |
| 1200657156 | 804006B33M200A | 20000 |
| 1200657154 | 804006B33M300A | 30000 |
| 5P CABLE B33 | | |
| 1200657186 | 805006B33M005A | 500 |
| 1200656673 | 805006B33M010A | 1000 |
| 1200659452 | 805006B33M020 | 2000 |
| 1200656674 | 805006B33M020A | 2000 |
| 1200656675 | 805006B33M030A | 3000 |
| 1200656676 | 805006B33M050A | 5000 |
| 1200656677 | 805006B33M100A | 10000 |
| 1200656678 | 805006B33M150A | 15000 |
| 1200657187 | 805006B33M200A | 20000 |
| 1200657188 | 805006B33M300A | 30000 |
| 1200657189 | 805006B33M400A | 40000 |
| 1200657190 | 805006B33M500A | 50000 |
| 4P CABLE B36 | | |
| 1200656855 | 804006B36M0207Y | 2000 |
| 1200657220 | 804006B36M0507Y | 5000 |
| 1200657221 | 804006B36M0807Y | 8000 |
| 1200657222 | 804006B36M1007Y | 10000 |
| 1200657223 | 804006B36M1507Y | 15000 |
| 1200657224 | 804006B36M2007Y | 20000 |
| 5P CABLE B36 | | |
| 1200656552 | 805006B36M1007Y | 10000 |

| MOLEX P/N | ENGINEERING No. | LENGTH [mm] |
|---|---|---|
| 8P CABLE B41 | | |
| 1200659680 | 808006B41M003 | 300 |
| 1200652302 | 808006B41M010 | 1000 |
| 1200652383 | 808006B41M010R | 1000 |
| 1200659453 | 808006B41M020 | 2000 |
| 1200652384 | 808006B41M020R | 2000 |
| 1200659776 | 808006B41M030 | 3000 |
| 1200652385 | 808006B41M030R | 3000 |
| 1200656003 | 808006B41M040 | 4000 |
| 1200652386 | 808006B41M040R | 4000 |
| 1200652304 | 808006B41M050 | 5000 |
| 1200652387 | 808006B41M050R | 5000 |
| 1200652305 | 808006B41M100 | 10000 |
| 5P CABLE B42 | | |
| 1200652279 | 805006B42M010 | 1000 |
| 1200652280 | 805006B42M020 | 2000 |
| 1200652281 | 805006B42M050 | 5000 |
| 1200652282 | 805006B42M100 | 10000 |
| 1200659546 | 805006B42M200 | 20000 |
| 1200659547 | 805006B42M300 | 30000 |
| 4P CABLE B55 | | |
| 1200656634 | 804006B55M010Y | 1000 |
| 1200656635 | 804006B55M020Y | 2000 |
| 1200656636 | 804006B55M030Y | 3000 |
| 1200657244 | 804006B55M040Y | 4000 |
| 1200659943 | 804006B55M050Y | 5000 |
| 1200657245 | 804006B55M060Y | 6000 |
| 1200657246 | 804006B55M070Y | 7000 |
| 1200657247 | 804006B55M080Y | 8000 |
| 1200657248 | 804006B55M090Y | 9000 |
| 1200659944 | 804006B55M100Y | 10000 |
| 1200657249 | 804006B55M120Y | 12000 |
| 1200656637 | 804006B55M150Y | 15000 |
| 1200657250 | 804006B55M200Y | 20000 |

| MOLEX P/N | ENGINEERING No. | LENGTH [mm] |
|---|---|---|
| 5P CABLE B55 | | |
| 1200656680 | 805006B55M010Y | 1000 |
| 1200656681 | 805006B55M020Y | 2000 |
| 1200656682 | 805006B55M030Y | 3000 |
| 1200659945 | 805006B55M050Y | 5000 |
| 1200659946 | 805006B55M100Y | 10000 |
| 1200659947 | 805006B55M150Y | 15000 |

CABLE LENGTH TOLERANCES

| LENGTH | TOLERANCE |
|---|---|
| 0m-1m | +40 mm |
| >1m-5m | +60 mm |
| >5m-10m | +80 mm |
| >10m-20m | +140 mm |
| >20m-30m | +160 mm |
| >30m | +1% length |

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DIVISIONAL SYMBOLS

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GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
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| 4 PLACES | ± |
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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC MA STR WSOR XM SE UNSH

PRODUCT CUSTOMER DRAWING

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|---|---|---|---|
| 1200659964 | PSD | 000 | B |

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

| DOCUMENT STATUS | P1 | RELEASE DATE | 2024/07/02 09:17:38 |
|---|---|---|---|

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