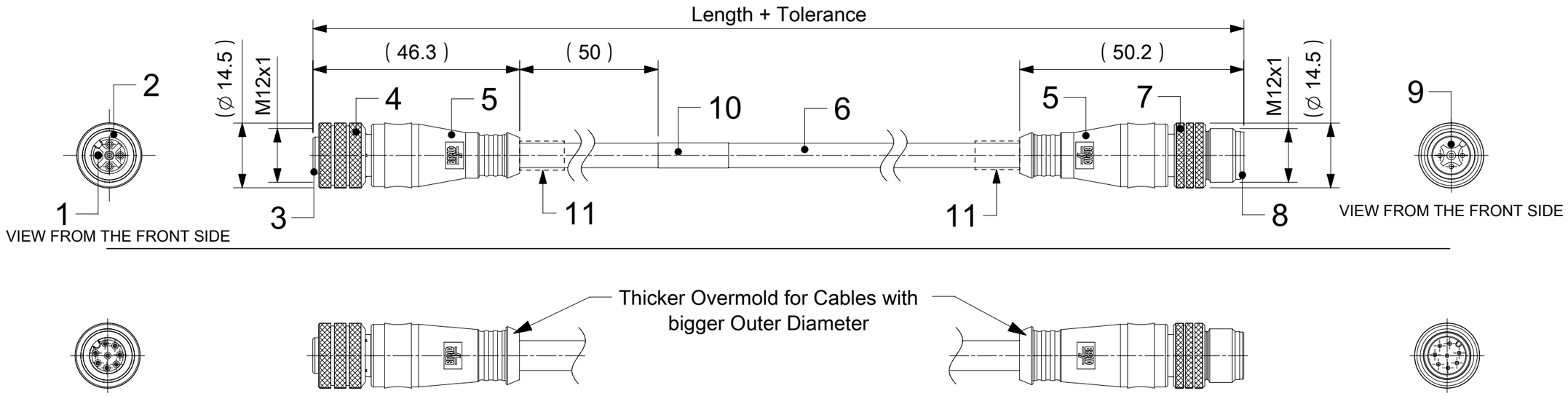
# FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT







NOTES:

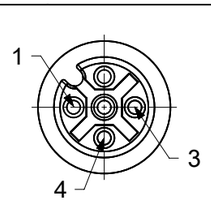
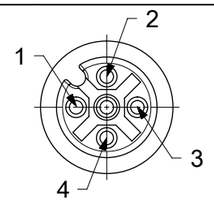
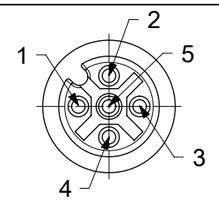
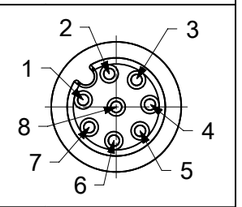
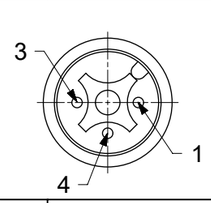
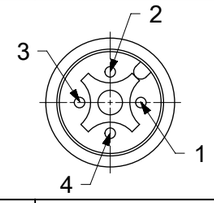
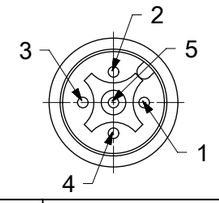
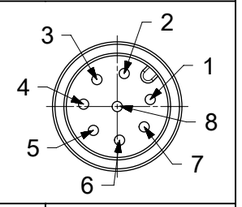
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67

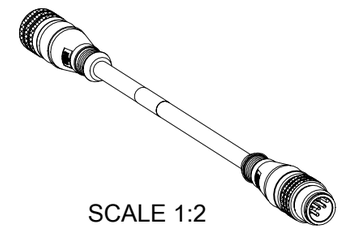
TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

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

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

CODING REQUIRED TO IEC 61076-2-101



SCALE 1:2

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|---|---|---|---|---|
| 11 | SEE SHEET 2 | ID CARRIER | PVC | TRANSPARENT |
| 10 | 1 | LABEL YELLOW | VINYL | - |
| 9 | 3 / 4 / 5 / 8 | CONTACT MALE | SEE PART LIST | SELECTIVE GOLD OVER NICKEL |
| 8 | 1 | INSERT MALE BLACK | TPU | - |
| 7 | 1 | COUPLING NUT MALE | - | - |
| 6 | - | CABLE | SEE SHEET 2 | - |
| 5 | - | OVERMOULDING BLACK | TPU | - |
| 4 | 1 | COUPLING NUT FEMALE | - | - |
| 3 | 1 | INSERT FEMALE BLACK | PUR | - |
| 2 | 1 | O-RING RED | FPM | - |
| 1 | 3 / 4 / 5 / 8 | CONTACT FEMALE | SEE PART LIST | SELECTIVE GOLD OVER NICKEL |

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: NEW P/N`S ADDED TO THE DRAWING 12335

EC NO: 769491
DRWN: VHANDI 2023/10/30
CHK'D: RSILLER 2023/11/21
APPR: RSILLER 2023/11/21

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/16
APPR: RSILLER 2016/12/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668084 | PSD | 000 | A17 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE SHEET 3-4 | GENERAL MARKET | 1 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/11/21 12:03:28 |
|---|---|---|---|

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

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

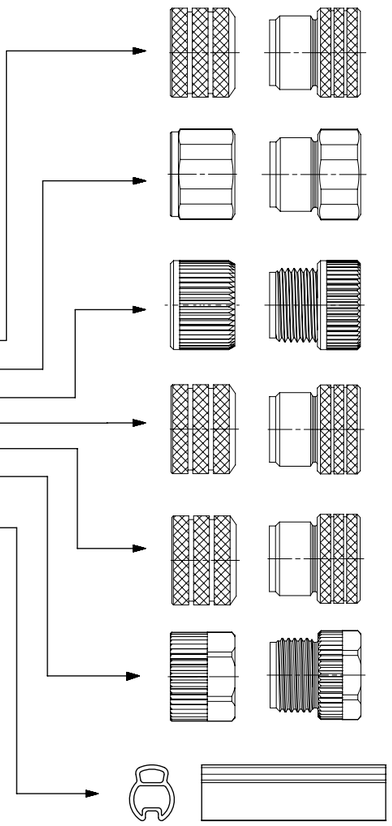
OPTIONS

| 8 | 8 | X | 0 | 3 | 0 | X | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

- 88=Micro-Change M12x1 Double ended
- Contacts: 3=3 Contacts, 4=4 Contacts, 5=5 Contacts, 8=8 Contacts
- Heads style: 030=Plug Female Straight to Plug Male Straight
- Cable type: See Table
- Units: M=Meter, C=Centimeter
- Length Examples: 005=0.5 unit, 010=1 unit, 100=10 units
- Overmold color: Blank (Standard)=Black, A=Grey / G=Black / Y=Yellow
- Coupling Nut: Blank (Standard) & 3=Knurled Brass Ni Plated, 1=Hexagonal Stainless steel, 5=Knurled Derlin, 7=Knurled Brass Ni Plated, Teflon Coated, 8=Type 316 stainless steel, 9=Knurled / Hexagonal Brass Ni Plated SW13
- H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS

FEMALE MALE



# 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 / 8 | 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. | - | - |
| E03 | 3 / 4 / 5 | 0.34mm² | 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. | - | - |
| H08 | 3 / 4 / 5 / 8 | 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 at 20°C, Temp. range +5°C to +60°C | - |
| H09 | 3 / 4 / 5 | 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 at 20°C, Temp. range +5°C to +60°C | - |
| P02 | 3 / 4 / 5 / 8 | 0.25mm² | PUR / PVC BLACK | - | - | -30°C to +80°C, 7xO.D. | -5°C to +80°C, 15xO.D. | - | - |
| P03 | 3 / 4 / 5 | 0.34mm² | PUR / PVC BLACK | - | - | -30°C to +80°C, 7xO.D. | -5°C to +80°C, 15xO.D. | - | - |

| 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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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 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: NEW P/N`S ADDED TO THE DRAWING 12335

EC NO: 769491

DRWN: VHANDI 2023/10/30

CHK'D: RSILLER 2023/11/21

APPR: RSILLER 2023/11/21

INITIAL REVISION:

DRWN: JMARSZALEK 2016/09/16

APPR: RSILLER 2016/12/08

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668084 | PSD | 000 | A17 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120066 | SEE SHEET 3-4 | GENERAL MARKET | 2 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/11/21 12:03:28 |
|---|---|---|---|

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

# PART LIST

| MOLEX PN | Engineering No. | Length | |
|---|---|---|---|
| 3P CABLE E03 | | | |
| 1200070081 | 883030E03M006 | 0.6m | |
| 1200669153 | 883030E03M0101 | 1m | |
| 1200070083 | 883030E03M010 | 1m | |
| 1200071006 | 883030E03M020H | 2m | |
| 1200070086 | 883030E03M0205 | 2m | |
| 1200070085 | 883030E03M020 | 2m | |
| 1200070088 | 883030E03M030 | 3m | |
| 1200668370 | 883030E03M040 | 4m | |
| 1200070092 | 883030E03M0505 | 5m | |
| 1200070091 | 883030E03M050 | 5m | |
| 1200669511 | 883030E03M060 | 6m | |
| 1200669499 | 883030E03M080 | 8m | |
| 1200070093 | 883030E03M100 | 10m | |
| 1200669500 | 883030E03M120 | 12m | |
| 1200669501 | 883030E03M140 | 14m | |
| 1200669502 | 883030E03M160 | 16m | |
| 1200669510 | 884030E03M160 | 16m | |
| 1200669503 | 883030E03M180 | 18m | |
| 1200669522 | 883030E03M200 | 20m | |
| 1200669523 | 883030E03M250 | 25m | |
| 4P CABLE E03 | | | |
| 1200669878 | 884030E03M002H | 0.2m | |
| 1200070470 | 884030E03M003 | 0.3m | |
| 1200669879 | 884030E03M004H | 0.4m | |
| 1200668672 | 884030E03M0051 | 0.5m | * |
| 1200665009 | 884030E03M005 | 0.5m | |
| 1200070472 | 884030E03M006 | 0.6m | |
| 1200669880 | 884030E03M009H | 0.9m | |
| 1200668062 | 884030E03M010H | 1m | |
| 1200070473 | 884030E03M010 | 1m | |
| 1200669881 | 884030E03M013H | 1.3m | |
| 1200071594 | 884030E03M015 | 1.5m | |
| 1200669882 | 884030E03M016H | 1.6m | |
| 1200071774 | 884030E03M020H | 2m | |
| 1200071703 | 884030E03M0205 | 2m | |
| 1200070474 | 884030E03M020 | 2m | |

| MOLEX PN | Engineering No. | Length | | |
|---|---|---|---|---|
| 1200669423 | 884030E03M025 | 2.5m | | |
| 1200070475 | 884030E03M030 | 3m | | |
| 1200669424 | 884030E03M035 | 3.5m | | |
| 1200072092 | 884030E03M040 | 4m | | |
| 1200072172 | 884030E03M050H | 5m | | |
| 1200071707 | 884030E03M0505 | 5m | | |
| 1200072744 | 884030E03M0501 | 5m | * | |
| 1200060049 | 884030E03M050 | 5m | | |
| 1200071596 | 884030E03M060 | 6m | | |
| 1200668786 | 884030E03M070 | 7m | | |
| 1200669508 | 884030E03M080 | 8m | | |
| 1200071881 | 884030E03M1005 | 10m | | |
| 1200070476 | 884030E03M100 | 10m | | |
| 1200072544 | 884030E03M120 | 12m | | |
| 1200669509 | 884030E03M140 | 14m | | |
| 1200071793 | 884030E03M1501 | 15m | * | |
| 1200071715 | 884030E03M150 | 15m | | |
| 1200669883 | 884030E03M180H | 18m | | |
| 1200071199 | 884030E03M200 | 20m | | |
| 1200668718 | 884030E03M250 | 25m | | |
| 1200668719 | 884030E03M300 | 30m | | |
| 1200668770 | 884030E03M350 | 35m | | |
| 1200668771 | 884030E03M400 | 40m | | |
| 1200669884 | 884030E03M800H | 80m | | |
| 5P CABLE E03 | | | | |
| 1200669957 | 885030E03M0017 | 0.17m | | A17 |
| 1200668972 | 885030E03M003 | 0.3m | | |
| 1200071500 | 885030E03M005 | 0.5m | | |
| 1200668338 | 885030E03M006 | 0.6m | | |
| 1200668530 | 885030E03M010H | 1m | | |
| 1200070906 | 885030E03M010 | 1m | | |
| 1200668528 | 885030E03M020H | 2m | | |
| 1200070970 | 885030E03M020 | 2m | | |
| 1200668973 | 885030E03M025 | 2.5m | | |
| 1200668985 | 885030E03M030H | 3m | | |
| 1200070586 | 885030E03M030 | 3m | | |
| 1200072081 | 885030E03M035 | 3.5m | | |

| MOLEX PN | Engineering No. | Length | |
|---|---|---|---|
| 1200668981 | 885030E03M040H | 4m | |
| 1200071948 | 885030E03M040 | 4m | |
| 1200070969 | 885030E03M050 | 5m | |
| 1200668982 | 885030E03M060H | 6m | |
| 1200072697 | 885030E03M060 | 6m | |
| 1200668652 | 885030E03M070 | 7m | |
| 1200668980 | 885030E03M080H | 8m | |
| 1200071583 | 885030E03M080 | 8m | |
| 1200669905 | 885030E03M085H | 8.5m | |
| 1200669906 | 885030E03M090H | 9m | |
| 1200668347 | 885030E03M100 | 10m | |
| 1200669907 | 885030E03M110H | 11m | |
| 1200668674 | 885030E03M150 | 15m | |
| 1200668487 | 885030E03M200 | 20m | |
| 1200668521 | 885030E03M250 | 25m | |
| 1200668784 | 885030E03M300 | 30m | |
| 1200668785 | 885030E03M350 | 35m | |
| | | | |
| 3P CABLE E02 | | | |
| 1200668662 | 883030E02M006 | 0.6m | |
| 1200669609 | 883030E02M0201 | 2m | |
| 1200669561 | 883030E02M050 | 5m | |
| 4P CABLE E02 | | | |
| 1200668661 | 884030E02M0031 | 0.3m | * |
| 5P CABLE E02 | | | |
| 1200668664 | 885030E02M010 | 1m | |
| 1200668657 | 885030E02M020 | 2m | |
| 1200668609 | 885030E02M050 | 5m | |
| 1200668656 | 885030E02M100 | 10m | |
| 8P CABLE E02 | | | |
| 1200668399 | 888030E02M003 | 0.3m | |
| 1200668777 | 888030E02M020 | 2m | |
| 1200668288 | 888030E02M025 | 2.5m | |
| 1200668778 | 888030E02M030 | 3m | |
| 1200668779 | 888030E02M050 | 5m | |
| 1200668780 | 888030E02M100 | 13m | |
| 1200669477 | 888030E02M300 | 30m | |
| 1200669478 | 888030E02M400 | 40m | |
| 1200669479 | 888030E02M500 | 50m | |

| MOLEX PN | Engineering No. | Length | |
|---|---|---|---|
| 4P CABLE H08 | | | |
| 1200668689 | 884030H08M030 | 3m | |
| 8P CABLE H08 | | | |
| 1200669314 | 888030H08C250 | 0.25m | |
| 1200669310 | 888030H08M005 | 0.5m | |
| 1200669311 | 888030H08M008 | 0.8m | |
| 1200668491 | 888030H08M010 | 1m | |
| 1200669312 | 888030H08M012 | 1.2m | |
| 1200669313 | 888030H08M015 | 1.5m | |
| 1200669117 | 888030H08M040 | 4m | |
| 1200669212 | 888030H08M050 | 5m | |
| 1200669958 | 888030H08M070 | 7.0m | A17 |
| 1200668774 | 888030H08M100 | 10m | |
| 1200669161 | 888030H08M150 | 15m | |
| 1200669437 | 888030H08M200 | 20m | |
| 1200669955 | 888030H08M300 | 30m | |
| | | | |
| 3P CABLE H09 | | | |
| 1200668373 | 883030H09M006 | 0.6m | |
| 1200668374 | 883030H09M010 | 1m | |
| 1200669134 | 883030H09M015 | 1.5m | |
| 1200668375 | 883030H09M030 | 3m | |
| 1200669350 | 883030H09M030H | 3m | |
| 1200668376 | 883030H09M040 | 4m | |
| 1200668377 | 883030H09M100 | 10m | |
| 1200669135 | 883030H09M200 | 20m | |
| 4P CABLE H09 | | | |
| 1200668715 | 884030H09M003 | 0.3m | |
| 1200668378 | 884030H09M006 | 0.6m | |
| 1200668548 | 884030H09M006H | 0.6m | |
| 1200668379 | 884030H09M010 | 1m | |
| 1200668549 | 884030H09M010H | 1m | |
| 1200669752 | 884030H09M015H | 1.5m | |
| 1200669759 | 884030H09M020H | 2m | |
| 1200668234 | 884030H09M020 | 2m | |
| 1200668714 | 884030H09M0209 | 2m | |
| 1200668486 | 884030H09M023 | 2.3m | |
| 1200669753 | 884030H09M025H | 2.5m | |
| 1200669758 | 884030H09M030H | 3m | |

NOTES:

* - Part No. with Yellow PVC overmolding

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DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 1:1

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| | |
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| ANGULAR TOL | ± 1.0 ° |
| 4 PLACES | ± |
| 3 PLACES | ± |
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CURRENT REV DESC: NEW P/N`S ADDED TO THE DRAWING 12335

EC NO: 769491

| | | |
|---|---|---|
| DRWN: | VHANDI | 2023/10/30 |
| CHK'D: | RSILLER | 2023/11/21 |
| APPR: | RSILLER | 2023/11/21 |

INITIAL REVISION:

| | | |
|---|---|---|
| DRWN: | JMARSZALEK | 2016/09/16 |
| APPR: | RSILLER | 2016/12/08 |

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668084 | PSD | 000 | A17 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE PART LIST | GENERAL MARKET | 3 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/11/21 12:03:28 |
|---|---|---|---|

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

# PART LIST

| MOLEX PN | Engineering No. | Length |
|---|---|---|
| 1200668174 | 884030H09M030 | 3m |
| 1200668380 | 884030H09M040 | 4m |
| 1200668244 | 884030H09M050 | 5m |
| 1200668550 | 884030H09M050H | 5m |
| 1200668737 | 884030H09M055 | 5.5m |
| 1200669926 | 884030H09M065H | 6.5m |
| 1200669927 | 884030H09M070H | 7m |
| 1200669931 | 884030H09M075H | 7.5m |
| 1200669932 | 884030H09M080H | 8m |
| 1200668381 | 884030H09M100 | 10m |
| 5P CABLE H09 | | |
| 1200668509 | 885030H09M006 | 0.6m |
| 1200668497 | 885030H09M010 | 1m |
| 1200669756 | 885030H09M015H | 1.5m |
| 1200668500 | 885030H09M020 | 2m |
| 1200669762 | 885030H09M020H | 2m |
| 1200669757 | 885030H09M025H | 2.5m |
| 1200668510 | 885030H09M030 | 3m |
| 1200669763 | 885030H09M030H | 3m |
| 1200668853 | 885030H09M040 | 4m |
| 1200668501 | 885030H09M050 | 5m |
| 1200668854 | 885030H09M060 | 6m |
| 1200668502 | 885030H09M092 | 9.2m |
| 1200668511 | 885030H09M100 | 10m |
| 1200668683 | 885030H09M150 | 15m |
| 1200668684 | 885030H09M200 | 20m |
| | | |
| 8P CABLE P02 | | |
| 1200661455 | 888030P02M005 | 0.5m |
| 1200660579 | 888030P02M010 | 1m |
| 1200668803 | 888030P02M010H | 1m |
| 1200660585 | 888030P02M100 | 10m |
| 1200668807 | 888030P02M100H | 10m |
| 1200669353 | 888030P02M130 | 13m |
| 1200660586 | 888030P02M150 | 15m |
| 1200668808 | 888030P02M150H | 15m |
| 1200668327 | 888030P02M200 | 20m |
| 1200668809 | 888030P02M200H | 20m |

| MOLEX PN | Engineering No. | Length |
|---|---|---|
| 1200660580 | 888030P02M020 | 2m |
| 1200668804 | 888030P02M020H | 2m |
| 1200660581 | 888030P02M030 | 3m |
| 1200660582 | 888030P02M040 | 4m |
| 1200660583 | 888030P02M050 | 5m |
| 1200668806 | 888030P02M050H | 5m |
| 1200660584 | 888030P02M060 | 6m |
| 1200668352 | 888030P02M250 | 25m |
| 1200669133 | 888030P02M3008 | 30m |
| 1200668810 | 888030P02M350H | 35m |
| 1200668544 | 888030P02M500 | 50m |
| | | |
| 3P CABLE P03 | | |
| 1200070102 | 883030P03M003 | 0.3m |
| 1200070104 | 883030P03M006 | 0.6m |
| 1200660498 | 883030P03M010 | 1m |
| 1200071123 | 883030P03M010H | 1m |
| 1200668691 | 883030P03M010YH | 1m |
| 1200660500 | 883030P03M020 | 2m |
| 1200071131 | 883030P03M0201 | 2m |
| 1200071114 | 883030P03M020H | 2m |
| 1200668690 | 883030P03M020YH | 2m |
| 1200660501 | 883030P03M030 | 3m |
| 1200071122 | 883030P03M030H | 3m |
| 1200668646 | 883030P03M030HY | 3m |
| 1200072104 | 883030P03M040 | 4m |
| 1200660502 | 883030P03M050 | 5m |
| 1200071047 | 883030P03M050H | 5m |
| 1200668713 | 883030P03M050HY | 5m |
| 1200071288 | 883030P03M060 | 6m |
| 1200070105 | 883030P03M100 | 10m |
| 1200071273 | 883030P03M100H | 10m |
| 1200668712 | 883030P03M100HY | 10m |
| 1200072658 | 883030P03M120 | 12m |
| 1200071053 | 883030P03M150 | 15m |

| MOLEX PN | Engineering No. | Length |
|---|---|---|
| 4P CABLE P03 | | |
| 1200070486 | 884030P03M003 | 0.3m |
| 1200668687 | 884030P03M005 | 0.5m |
| 1200070487 | 884030P03M006 | 0.6m |
| 1200070488 | 884030P03M010 | 1m |
| 1200072762 | 884030P03M0101 | 1m |
| 1200072649 | 884030P03M0105 | 1m |
| 1200060050 | 884030P03M015 | 1.5m |
| 1200070489 | 884030P03M020 | 2m |
| 1200072763 | 884030P03M0201 | 2m |
| 1200668754 | 884030P03M020H | 2m |
| 1200060051 | 884030P03M030 | 3m |
| 1200072764 | 884030P03M0301 | 3m |
| 1200072803 | 884030P03M040 | 4m |
| 1200070490 | 884030P03M050 | 5m |
| 1200072650 | 884030P03M0505 | 5m |
| 1200072010 | 884030P03M050H | 5m |
| 1200072804 | 884030P03M060 | 6m |
| 1200669717 | 884030P03M080 | 8m |
| 1200668815 | 884030P03M0805 | 8m |
| 1200071029 | 884030P03M100 | 10m |
| 1200665031 | 884030P03M100H | 10m |
| 1200668720 | 884030P03M150 | 15m |
| 1200072105 | 884030P03M200 | 20m |
| 1200668721 | 884030P03M250 | 25m |
| 1200668722 | 884030P03M300 | 30m |
| 1200668723 | 884030P03M350 | 35m |
| 1200668724 | 884030P03M400 | 40m |
| 5P CABLE P03 | | |
| 1200668903 | 885030P03C130 | 0.13m |
| 1200073083 | 885030P03M006 | 0.6m |
| 1200668794 | 885030P03M006H | 0.6m |
| 1200071947 | 885030P03M007 | 0.7m |
| 1200668084 | 885030P03M010 | 1m |
| 1200668795 | 885030P03M010H | 1m |
| 1200668765 | 885030P03M015 | 1.5m |
| 1200070596 | 885030P03M020 | 2m |
| 1200668602 | 885030P03M020G | 2m |

| MOLEX PN | Engineering No. | Length |
|---|---|---|
| 1200668086 | 885030P03M0283 | 2.8m |
| 1200071408 | 885030P03M030 | 3m |
| 1200668796 | 885030P03M030H | 3m |
| 1200668163 | 885030P03M040 | 4m |
| 1200071049 | 885030P03M050 | 5m |
| 1200073049 | 885030P03M0501 | 5m |
| 1200668797 | 885030P03M050H | 5m |
| 1200668088 | 885030P03M070 | 7m |
| 1200071284 | 885030P03M100 | 10m |
| 1200668798 | 885030P03M100H | 10m |
| 1200072656 | 885030P03M120 | 12m |
| 1200073084 | 885030P03M150 | 15m |
| 1200669111 | 885030P03M150H | 15m |
| 1200668238 | 885030P03M200 | 20m |
| 1200668800 | 885030P03M200H | 20m |
| 1200668775 | 885030P03M300 | 30m |
| 1200668801 | 885030P03M300H | 30m |
| 1200668802 | 885030P03M350H | 35m |
| | | |
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NOTES:

✱ - Part No. with Yellow PVC overmolding

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: NEW P/N`S ADDED TO THE DRAWING 12335

EC NO: 769491
DRWN: VHANDI 2023/10/30
CHK'D: RSILLER 2023/11/21
APPR: RSILLER 2023/11/21

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/16
APPR: RSILLER 2016/12/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

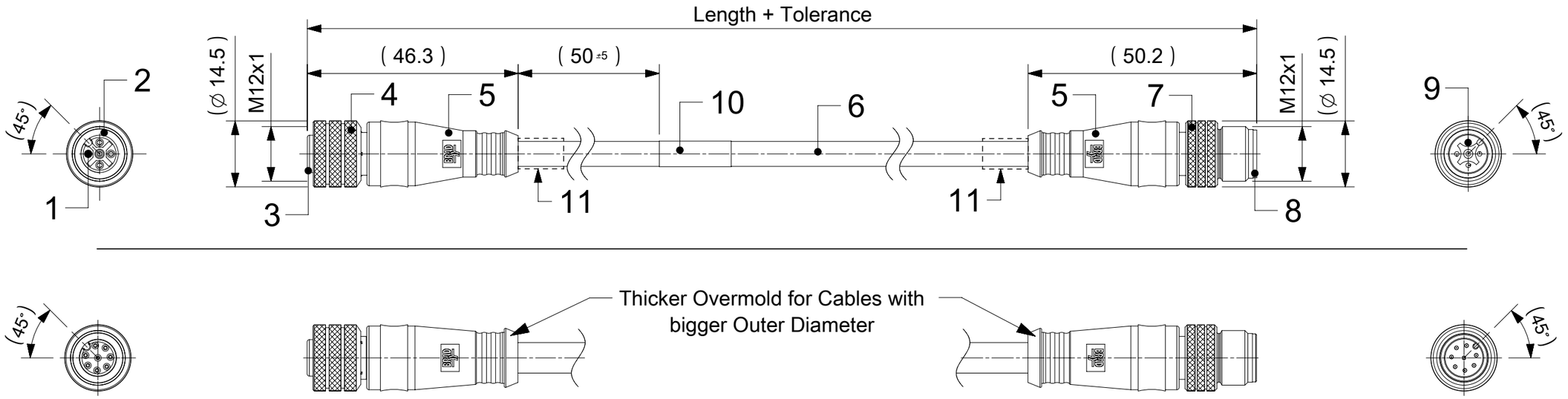
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668084 | PSD | 000 | A17 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE PART LIST | GENERAL MARKET | 4 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/11/21 12:03:28 |
|---|---|---|---|

FORMAT: master_sheet-A3
REVISION: J1
DATE: 2021/05/06

# FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT




NOTES:

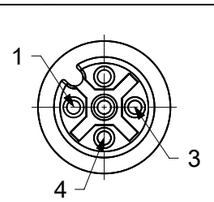
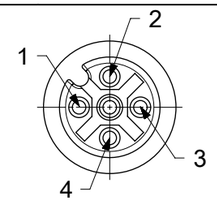
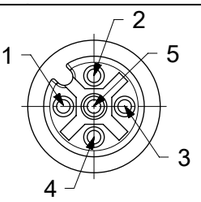
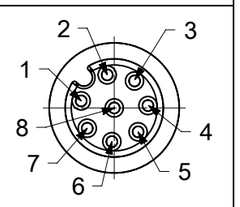
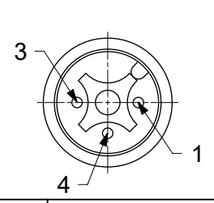
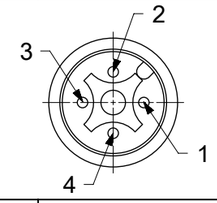
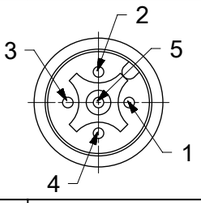
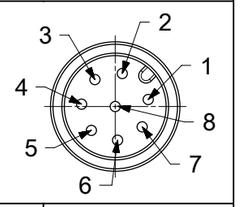
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67

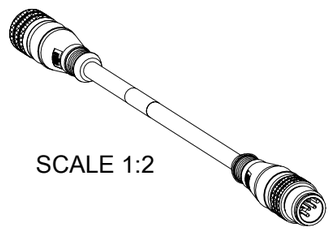
TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

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

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

CODING REQUIRED TO IEC 61076-2-101




FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|---|---|---|---|---|
| 11 | SEE SHEET 2 | ID CARRIER | PVC | TRANSPARENT |
| 10 | 1 | LABEL YELLOW | VINYL | --- |
| | - | PRINTING FOR CABLES Ixx | --- | --- |
| 9 | 3 / 4 / 5 / 8 | CONTACT MALE | SEE PART LIST | SELECTIVE Au OVER Ni |
| 8 | 1 | INSERT MALE BLACK | TPU | --- |
| 7 | 1 | COUPLING NUT MALE | --- | --- |
| 6 | - | CABLE | SEE SHEET 2 | --- |
| 5 | - | OVERMOULDING BLACK | TPU | --- |
| 4 | 1 | COUPLING NUT FEMALE | --- | --- |
| 3 | 1 | INSERT FEMALE BLACK | PUR | --- |
| 2 | 1 | ORING RED | FPM | --- |
| 1 | 3 / 4 / 5 / 8 | CONTACT FEMALE | SEE PART LIST | SELECTIVE Au OVER Ni |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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#516585

EC NO: 823299
DRWN: VISHAH2 2025/05/16
CHK'D: GGA 2025/05/29
APPR: GGA 2025/05/29

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/19
APPR: RSILLER 2016/12/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120066

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668165 | PSD | 000 | A9 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE PART LIST | GENERAL MARKET | 1 OF 5 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/05/29 13:28:17 |
|---|---|---|---|

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

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

| 8 | 8 | X | 0 | 3 | 0 | X | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | OPTIONS |

88=Micro-Change M12x1 Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
030=Plug Female Straight to Plug Male Straight

Cable type: See Table

Units:
M=Meter

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

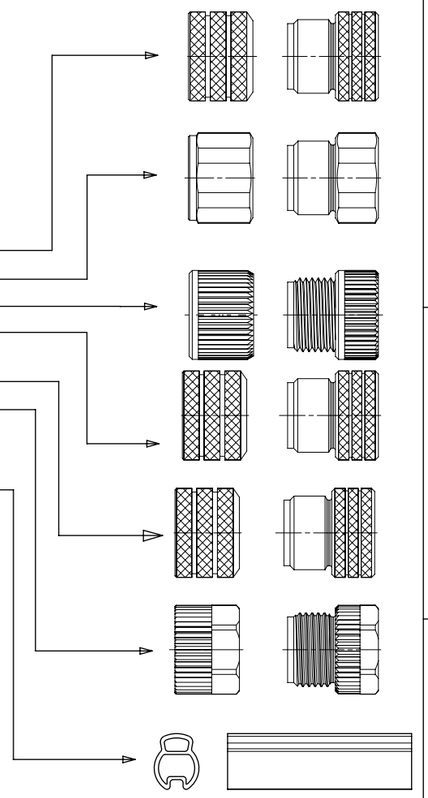
OPTIONS

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC for cables A09, S19, S20, S26
Blank=Yellow TPE-E for cables K03, K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent (Cables Ixx & P82 always with 2 pcs. of I/D Carrier even if no H in Engineering No.)

COUPLING NUT
FEMALE MALE



| 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#516585

EC NO: 823299
DRWN: VISHAH2 2025/05/16
CHK'D: GGA 2025/05/29
APPR: GGA 2025/05/29

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/19
APPR: RSILLER 2016/12/08

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668165 | PSD | 000 | A9 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120066 | SEE PART LIST | GENERAL MARKET | 2 OF 5 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/05/29 13:28:17 |
|---|---|---|---|

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

# 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | A09 | 4 | 22AWG | PVC YELLOW | UL 2661 | I/II A/B 80°C/300V | - | - | - | - |
| | B02 | 4 | 18AWG | PUR YELLOW | UL 20549 | I/II A/B 80°C/300V | - | - | - | - |
| | E52 | 3 / 4 | 0.34mm² | PVC GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |
| | E57 | 5 | 0.34mm² | PVC GREY | - | - | - | -5°C to +70°C | - | - |
| | I03 | 3 / 4 / 5 | 0.34mm² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | - |
| | I20 | 3 / 4 | 0.34mm² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | YES |
| | I26 | 5 | 0.34mm² | PVC CEI GREY | - | - | -30°C to +70°C | -5°C to +70°C | - | YES |
| A8 | K03 | 4 / 5 | 18AWG | TPE YELLOW | UL ITC or PLTC | I/II A/B 90°C/300V | max 105°C | - | 2 000 000 cycles, >15xO.D. | - |
| | K05 | 3 / 4 / 5 | 22AWG | TPE YELLOW | UL ITC or PLTC | I/II A/B 90°C/300V | max 105°C | - | 2 000 000 cycles, >15xO.D. | - |
| | P20 | 3 / 4 / 5 | 0.34mm² | PUR BLACK LS0H | - | - | -30°C to +80°C | - | - | YES |
| | P82 | 3 / 4 / 5 | 0.34mm² | PUR IRR ORANGE | - | - | -50°C to +105°C, >5xO.D. | -40°C to +105°C, >7.5xO.D. | - | - |
| | S19 | 8 | 0.25mm² | PVC YELLOW | UL 2661/1569 | C22.2 II A 105°C/300V | -30°C to +105°C, >10xO.D. | -15°C to +105°C, >15xO.D. | 2 000 000 cycles, >15xO.D. | YES |
| | S20 | 3 / 4 / 5 | 0.34mm² | PVC YELLOW | UL 2661/1731 | C22.2 II A 105°C/300V | -30°C to +105°C | - | - | YES |
| | S26 | 5 | 0.34mm² | PVC YELLOW | UL 2661/1731 | C22.2 II A 105°C/300V | -30°C to +105°C | - | - | YES |

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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#516585

EC NO: 823299
DRWN: VISHAH2 2025/05/16
CHK'D: GGA 2025/05/29
APPR: GGA 2025/05/29

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/19
APPR: RSILLER 2016/12/08

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668165 | PSD | 000 | A9 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120066 | SEE PART LIST | GENERAL MARKET | 3 OF 5 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/05/29 13:28:17 |
|---|---|---|---|

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

# PART LIST

| Part No. | Engineering No. | Cable Length |
|---|---|---|
| A09 | | |
| 1200660166 | 883030A09M010 | 1m |
| 1200660261 | 884030A09M005 | 0.5m |
| 1200660262 | 884030A09M006 | 0.6m |
| 1200660266 | 884030A09M010 | 1m |
| 1200660269 | 884030A09M015 | 1.5m |
| 1200660271 | 884030A09M020 | 2m |
| 1200660273 | 884030A09M0208 | 2m |
| 1200660277 | 884030A09M030 | 3m |
| 1200669113 | 884030A09M0308 | 3m |
| 1200660286 | 884030A09M0508 | 5m |
| 1200660291 | 884030A09M070 | 7m |
| 1200660294 | 884030A09M080 | 8m |
| 1200660434 | 885030A09M050 | 5m |
| B02 | | |
| 1200660857 | 884030B02M020 | 2m |
| 1200660860 | 884030B02M030 | 3m |
| 1200660862 | 884030B02M050 | 5m |
| 1200660867 | 884030B02M100 | 10m |
| E52 | | |
| 1200071343 | 883030E52M003A | 0.3m |
| 1200070956 | 883030E52M020A | 2m |
| 1200071026 | 884030E52M010A | 1m |
| 1200661434 | 884030E52M020A | 2m |
| 1200071624 | 884030E52M030A | 3m |
| 1200661472 | 884030E52M050A | 5m |
| 1200070867 | 884030E52M100A | 10m |
| 1200070653 | 884030E52M200A | 20m |
| I03 | | |
| 1200070095 | 883030I03M003 | 0.3m |
| 1200070096 | 883030I03M006 | 0.6m |
| 1200070097 | 883030I03M010 | 1m |
| 1200669149 | 883030I03M010Y | 1m |
| 1200070098 | 883030I03M020 | 2m |
| 1200668632 | 883030I03M020Y | 2m |
| 1200070099 | 883030I03M030 | 3m |
| 1200668633 | 883030I03M030Y | 3m |
| 1200668371 | 883030I03M040 | 4m |
| 1200070100 | 883030I03M050 | 5m |
| 1200668634 | 883030I03M050Y | 5m |
| 1200070101 | 883030I03M100 | 10m |
| 1200070774 | 884030I03M006 | 0.6m |
| | | |
| | | |

| Part No. | Engineering No. | Cable Length |
|---|---|---|
| I03 | | |
| 1200070480 | 884030I03M010 | 1m |
| 1200070481 | 884030I03M020 | 2m |
| 1200668637 | 884030I03M020Y | 2m |
| 1200071627 | 884030I03M0205 | 2m |
| 1200070785 | 884030I03M030 | 3m |
| 1200668372 | 884030I03M040 | 4m |
| 1200070483 | 884030I03M050 | 5m |
| 1200070484 | 884030I03M060 | 6m |
| 1200070485 | 884030I03M100 | 10m |
| 1200668638 | 884030I03M100Y | 10m |
| 1200070961 | 885030I03M030 | 3m |
| 1200668642 | 885030I03M030Y | 3m |
| 1200668165 | 885030I03M100 | 10m |
| 1200669218 | 885030I03M100Y | 10m |
| I20 | | |
| 1200071338 | 884030I20M030 | 3m |
| I26 | | |
| 1200072106 | 885030I26M005 | 0.5m |
| 1200668082 | 885030I26M006 | 0.6m |
| 1200070890 | 885030I26M010 | 1m |
| 1200668639 | 885030I26M010Y | 1m |
| 1200072359 | 885030I26M015 | 1.5m |
| 1200668736 | 885030I26M015Y | 1.5m |
| 1200070891 | 885030I26M020 | 2m |
| 1200668640 | 885030I26M020Y | 2m |
| 1200668281 | 885030I26M025 | 2.5m |
| 1200070892 | 885030I26M030 | 3m |
| 1200668641 | 885030I26M030Y | 3m |
| 1200071279 | 885030I26M050 | 5m |
| 1200668873 | 885030I26M050Y | 5m |
| K03 | | |
| 1200660878 | 884030K03M003 | 0.3m |
| 1200668003 | 884030K03M005 | 0.5m |
| 1200660880 | 884030K03M006 | 0.6m |
| 1200660881 | 884030K03M010 | 1m |
| 1200660883 | 884030K03M020 | 2m |
| 1200660887 | 884030K03M030 | 3m |
| 1200660891 | 884030K03M040 | 4m |
| 1200660895 | 884030K03M050 | 5m |
| 1200660898 | 884030K03M060 | 6m |
| 1200660899 | 884030K03M070 | 7m |
| 1200660900 | 884030K03M080 | 8m |
| 1200660901 | 884030K03M090 | 9m |
| 1200660902 | 884030K03M100 | 10m |
| | | |
| | | |

| Part No. | Engineering No. | Cable Length |
|---|---|---|
| K03 | | |
| 1200668001 | 884030K03M110 | 11m |
| 1200660904 | 884030K03M120 | 12m |
| 1200660905 | 884030K03M140 | 14m |
| 1200660906 | 884030K03M150 | 15m |
| 1200660907 | 884030K03M160 | 16m |
| 1200661543 | 884030K03M180 | 18m |
| 1200660909 | 884030K03M200 | 20m |
| 1200668004 | 884030K03M240 | 24m |
| 1200660911 | 884030K03M250 | 25m |
| 1200661906 | 884030K03M500 | 50m |
| 1200661664 | 885030K03M005 | 0.5m |
| 1200661034 | 885030K03M010 | 1m |
| 1200661035 | 885030K03M020 | 2m |
| 1200661036 | 885030K03M030 | 3m |
| 1200661037 | 885030K03M040 | 4m |
| 1200661038 | 885030K03M050 | 5m |
| 1200661039 | 885030K03M060 | 6m |
| 1200661041 | 885030K03M080 | 8m |
| 1200661042 | 885030K03M090 | 9m |
| 1200661043 | 885030K03M100 | 10m |
| 1200661685 | 885030K03M120 | 12m |
| 1200661490 | 885030K03M140 | 14m |
| 1200661044 | 885030K03M150 | 15m |
| 1200661686 | 885030K03M180 | 18m |
| 1200661687 | 885030K03M230 | 23m |
| 1200661684 | 885030K03M300 | 30m |
| K05 | | |
| 1200660683 | 884030K05M003 | 0.3m |
| 1200660684 | 884030K05M005 | 0.5m |
| 1200660686 | 884030K05M006 | 0.6m |
| 1200660687 | 884030K05M010 | 1m |
| 1200660688 | 884030K05M015 | 1.5m |
| 1200660689 | 884030K05M020 | 2m |
| 1200660690 | 884030K05M030 | 3m |
| 1200669948 | 884030K05M032 | 3.2m |
| 1200660691 | 884030K05M040 | 4m |
| | | |
| | | |

| Part No. | Engineering No. | Cable Length |
|---|---|---|
| K05 | | |
| 1200660692 | 884030K05M050 | 5m |
| 1200668615 | 884030K05M050H | 5m |
| 1200660693 | 884030K05M060 | 6m |
| 1200660915 | 884030K05M070 | 7m |
| 1200660694 | 884030K05M080 | 8m |
| 1200660695 | 884030K05M100 | 10m |
| 1200668616 | 884030K05M100H | 10m |
| 1200660696 | 884030K05M120 | 12m |
| 1200660918 | 884030K05M140 | 14m |
| 1200660697 | 884030K05M150 | 15m |
| 1200660698 | 884030K05M180 | 18m |
| 1200661441 | 884030K05M190 | 19m |
| 1200660921 | 884030K05M200 | 20m |
| 1200660922 | 884030K05M210 | 21m |
| 1200660699 | 884030K05M230 | 23m |
| 1200661438 | 884030K05M250 | 25m |
| 1200665368 | 884030K05M280 | 28m |
| 1200660700 | 884030K05M300 | 30m |
| 1200661649 | 884030K05M400 | 40m |
| 1200669227 | 884030K05M500 | 50m |
| 1200669228 | 884030K05M600 | 60m |
| P20 | | |
| 1200668505 | 884030P20M010 | 1m |
| 1200668506 | 884030P20M020 | 2m |
| 1200668507 | 884030P20M050 | 5m |
| 1200668508 | 884030P20M100 | 10m |
| P82 | | |
| 1200668773 | 885030P82M0107 | 1m |
| 1200665012 | 885030P82M0307 | 3m |
| S19 | | |
| 1200661575 | 888030S19M030 | 3m |
| 1200661576 | 888030S19M050 | 5m |
| 1200661577 | 888030S19M100 | 10m |
| 1200661574 | 888030S19M120 | 12m |
| S20 | | |
| 1200668310 | 883030S20M005 | 0.5m |
| | | |
| | | |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| | |
|---|---|
| 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#516585

EC NO: 823299
DRWN: VISHAH2 2025/05/16
CHK'D: GGA 2025/05/29
APPR: GGA 2025/05/29

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/19
APPR: RSILLER 2016/12/08

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668165 | PSD | 000 | A9 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120066 | SEE PART LIST | GENERAL MARKET | 4 OF 5 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/05/29 13:28:17 |
|---|---|---|---|

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

## PART LIST

| Part No. | Engineering No. | Cable Length |
|---|---|---|
| S20 | | |
| 1200070110 | 883030S20M010 | 1m |
| 1200070111 | 883030S20M020 | 2m |
| 1200668172 | 883030S20M050 | 5m |
| 1200071272 | 884030S20M005 | 0.5m |
| 1200071237 | 884030S20M005H | 0.5m |
| 1200071178 | 884030S20M006H | 0.6m |
| 1200668068 | 884030S20M010 | 1m |
| 1200071035 | 884030S20M010H | 1m |
| 1200071238 | 884030S20M015H | 1.5m |
| 1200070499 | 884030S20M020 | 2m |
| 1200071141 | 884030S20M020H | 2m |
| 1200070500 | 884030S20M030 | 3m |
| 1200071137 | 884030S20M030H | 3m |
| 1200071264 | 884030S20M040H | 4m |
| 1200070502 | 884030S20M050 | 5m |
| 1200071188 | 884030S20M050H | 5m |
| 1200070023 | 884030S20M060H | 6m |
| 1200070504 | 884030S20M100 | 10m |
| 1200071161 | 884030S20M100H | 10m |
| S26 | | |
| 1200070597 | 885030S26M010 | 1m |
| 1200668090 | 885030S26M020H | 2m |
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| 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#516585

EC NO: 823299

| | | |
|---|---|---|
| DRWN: | VISHAH2 | 2025/05/16 |
| CHK'D: | GGA | 2025/05/29 |
| APPR: | GGA | 2025/05/29 |

INITIAL REVISION:

| | | |
|---|---|---|
| DRWN: | JMARSZALEK | 2016/09/19 |
| APPR: | RSILLER | 2016/12/08 |

molex

CSE M12 XP AC FE STR MA STR XM DE

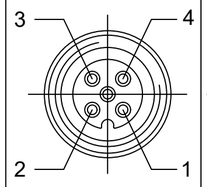
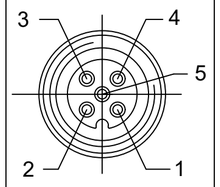
PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200668165 | PSD | 000 | A9 |

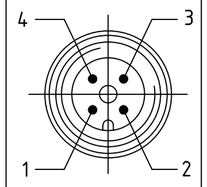
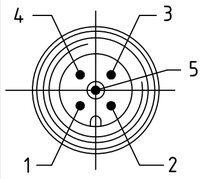
| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120066 | SEE PART LIST | GENERAL MARKET | 5 OF 5 |

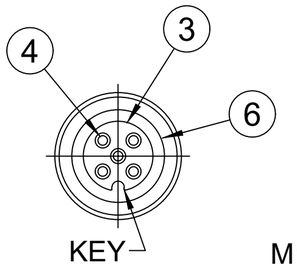
| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/05/29 13:28:17 |
|---|---|---|---|

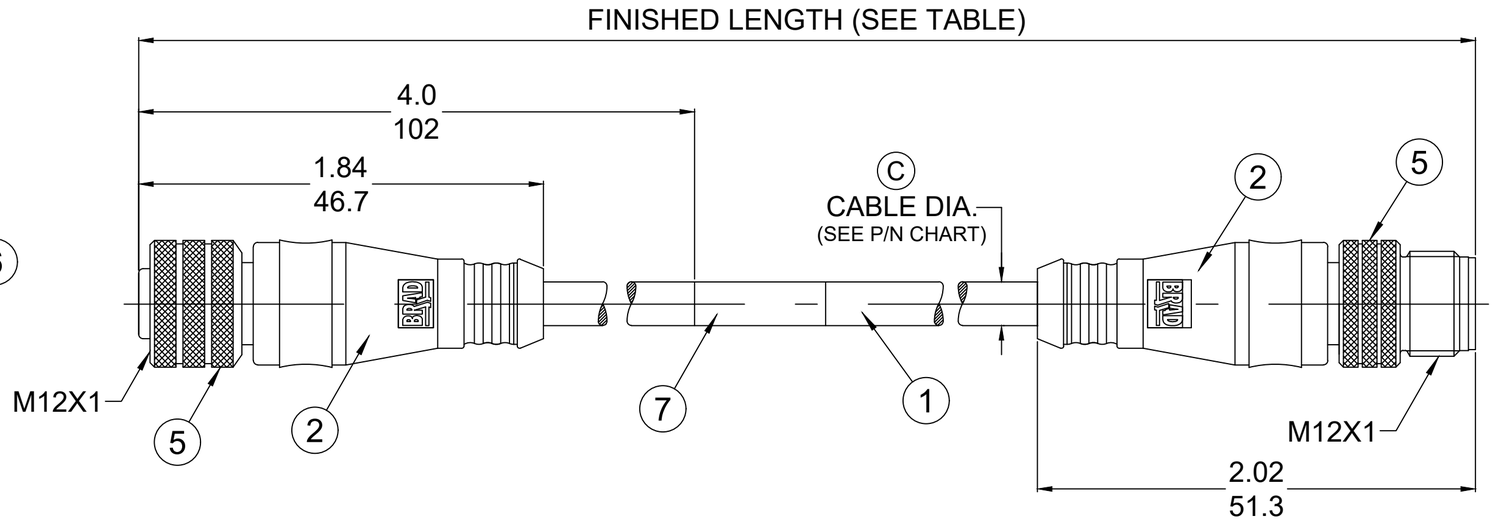
FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

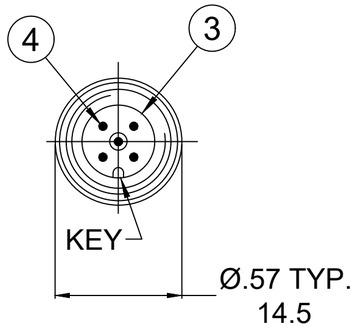
| FEMALE FACE VIEW | |
|---|---|
| 4-POLE | 5-POLE |
|  |  |
| **WIRING DIAGRAM** | |
| 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK | 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK<br>5 GREY |

| PART NO | ENGINEERING NO. | FINISHED LENGTH | POLES | CABLE DIA. Ⓒ |
|---|---|---|---|---|
| 1200660878 | 884030K03M003 | 0.3M [12 IN] | 4 | .26 [6.6] |
| 1200662229 | 885030K03M700 | 70M [229FT 8 IN] | 5 | .28 [7.1] |

| MALE FACE VIEW | |
|---|---|
| 4-POLE | 5-POLE |
|  |  |
| **WIRING DIAGRAM** | |
| 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK | 1 BROWN<br>2 WHITE<br>3 BLUE<br>4 BLACK<br>5 GREY |




NOTES:
1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:
   VOLTAGE: 4 & 5P 250V
   CURRENT: 4A
4. TEMP RATING: -20°TO +105°C
5. PROTECTION: IP67 (WHEN MATED)
6. UL RECOGNIZED FILE: E152210
   CSA CERTIFIED FILE: LR6837 Ⓒ
7. ALL DIMENSIONS ARE FOR REFERENCE
   UNLESS TOLERANCED OR NOTED OTHERWISE

MECHANICAL CHARACTERISTICS: Ⓒ

| | |
|---|---|
| TORSIONAL FLEX TEST | 10 MILLION CYCLES PER MIL-C-13777G |
| BEND FLEX TEST | 10 MILLION CYCLES PER MIL-C-13777G |
| WELD SLAG RESISTANCE | WOODHEAD STANDARD S-300 |

| ITEM | COMPONENT | MATERIAL | FINISH | |
|---|---|---|---|---|
| 1 | CABLE-#18/4-5 | TPE JACKET | YELLOW | |
| 2 | OVERMOLD | TPC | YELLOW | Ⓒ |
| 3 | INSERT | PUR | BLACK | |
| 4 | SOCKET/PIN CONTACT | COPPER ALLOY | GOLD OVER NICKEL | |
| 5 | COUPLER | BRASS | TEFLON/NICKEL | |
| 6 | O-RING | VITON | RED | |
| 7 | LABEL | MYLAR | BLACK/YELLOW | |

# PART NO. MATRIX

# 88X030K03XXXX

POLES
(4, 5)

LENGTH
M010 = 1 METER
M050 = 5 METER
M100 = 10 METER

Ⓒ

CABLE LENGTH TOLERANCES
<.3M [1FT]: +19mm-0 [ +.75in-0]
.3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]
.9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]
1.8 - 3.7M [6 - 12FT: +88.9mm-0 [+3.50in-0]
3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]
7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]
14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]
OVER 30M [100FT] +2% OF FINISHED LENGTH

| DOCUMENT STATUS | P1 | RELEASE DATE | 2020/10/23 13:29:00 |
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FUNCTIONAL SYMBOLS
FA=0
FC=0
FP=0
DIVISIONAL SYMBOLS

DIMENSION UNITS: INCH/MM
SCALE: NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ±---- | ±---- |
| 3 PLACES | ±---- | ±---- |
| 2 PLACES | ±---- | ±---- |
| 1 PLACE | ±---- | ±---- |
| 0 PLACES | ±---- | ±---- |
| ANGULAR TOL ± | ---- ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ITEM# 2 WAS TPE. REMOVED 3P DETAILS. ADDED CSA, MECH CHARACTERISTICS & TOL CHART. ADDED DIMS & MATERIAL TABLE..

EC NO: 645633
DRWN: ABENJAMINLW 2020/09/18
CHK'D: RSTONE 2020/09/29
APPR: BWOODMAN 2020/10/23

INITIAL REVISION:
DRWN: LSTEMMLE 2010/02/01
APPR: FPACHER 2010/02/03

molex

MICRO-CHANGE CORDSET, M12
4/5 POLE, FEMALE-MALE, STRAIGHT SINGLE KEY,
18/4-5 AWG HI-FLEX

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-120066-020 | PSD | 001 | C |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | C-SIZE | 120066 | SEE CHART | GENERAL MARKET | 1 OF 1 |

FORMAT: IN-ACAD-tb-prod-C
REVISION: B
DATE: 2020/01/14