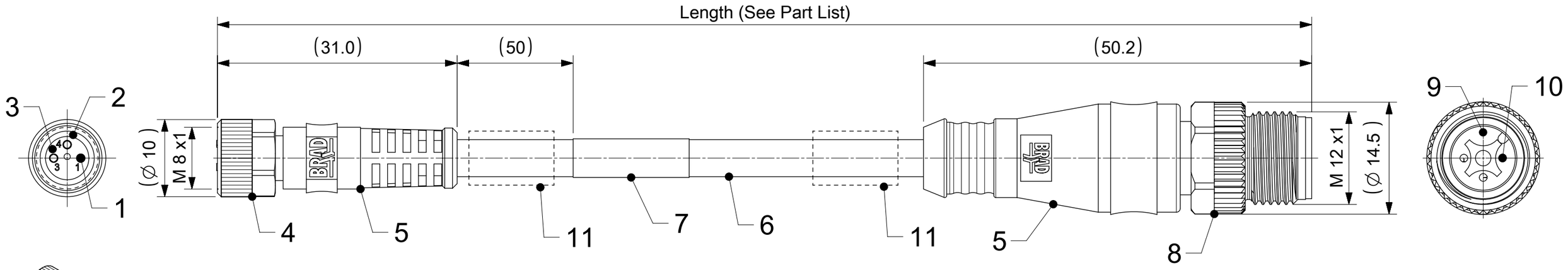
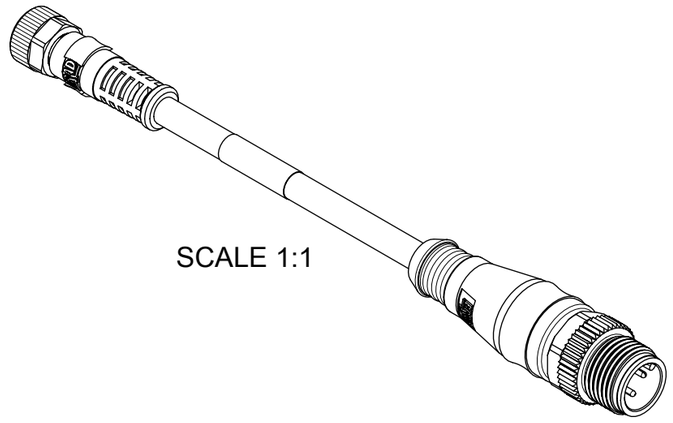
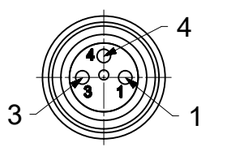
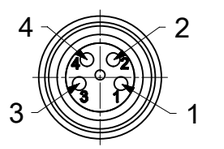
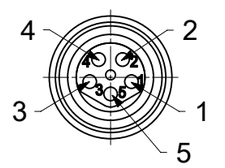
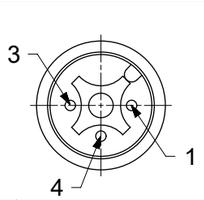
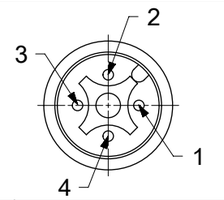
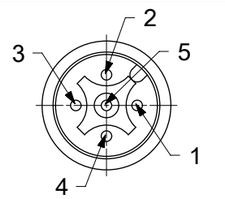
# FEMALE PLUG M8 STRAIGHT TO MALE PLUG M12 STRAIGHT WSOR CABLES



SCALE 1:1

CONTACTS POSITION FRONT VIEW:

| | 3 CONTACTS | 4 CONTACTS | 5 CONTACTS |
|---|---|---|---|
| M8 - FEMALE |  |  |  |
| M12 - MALE |  |  |  |

| 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

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
INSULATION RESISTANCE: $10^8$ Ω MIN.
MATING CYCLES: MIN. 100
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH/COLOR |
|---|---|---|---|---|
| 1 | 3 / 4 / 5 | CONTACT M8 FEMALE | BRONZE | SELECTIVE Au OVER Ni |
| 2 | 1 | O-RING | FKM | RED |
| 3 | 1 | INSERT FEMALE M8 | TPU | BLACK |
| 4 | 1 | COUPLING NUT M8 FEMALE SW9 | BRASS | SEE MATRIX |
| 5 | - | OVERMOULDING | TPU | SEE MATRIX |
| 6 | - | CABLE | SEE SHEET 2 | --- |
| 7 | 1 | LABEL | VINYL | YELLOW |
| 8 | 1 | COUPLING NUT M12 MALE SW13 | BRASS | SEE MATRIX |
| 9 | 1 | INSERT MALE M12 | TPU | BLACK |
| 10 | 3 / 4 / 5 | CONTACT M8 MALE | BRONZE | SELECTIVE Au OVER Ni |
| 11 | 0 / 2 | ID CARRIER (SEE MATRIX) | PVC | TRANSPARENT |

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

| 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: AS PER THE PCN-513749 CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED NOTES ON PACKAGING SPEC , INSULATION RESISTANCE & MATING CYCLES. SORTED PART LIST USING CABLE TYPES ON SHEET 3,

EC NO: 789428
DRWN: AKABADI 2023/09/29
CHK'D: RSILLER 2024/07/02
APPR: RSILLER 2024/07/02

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/14
APPR: MIWASIECZKO 2017/11/28

molex

CSE M8 M12 XP ACBC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200878806 | PSD | 000 | B |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120087 | SEE PART LIST | GENERAL MARKET | 1 OF 3 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2024/07/02 09:16:47 |
|---|---|---|---|

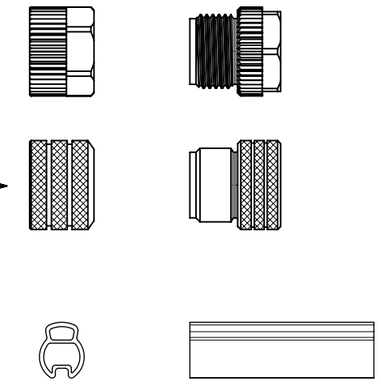
FORMAT: master_sheet-A3
REVISION: J1
DATE: 2021/05/05

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

OPTIONS

| 4 | 8 | X | 0 | 3 | 0 | B | 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: 030=Plug Female Straight to Plug Male Straight
- Cable type: See Table
- Units: M=Meter
- Length Examples: 005=0.5 units, 010=1 units, 100=10 units
- Overmold color: Blank (Standard)=Black, Y = YELLOW
- Coupling Nut: Blank (Standard)= Knurled/Hex Brass, Ni Plated; 7= Knurled Brass Ni plated, Teflon Coated
- H= 2 pcs. of I/D Carrier PVC Transparent (Cables 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B41 | 3 / 4 / 5 | 0.25mm² | 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-120209-006 |
| B55 | 3 / 4 | 0.34mm² | TPU Yellow | | | | | | | | n/a |
| B36 | 3/4 | 0.34mm² | TPU Orange | | | | | | | | SD-120209-001 |

### 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

| 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 |

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molex

CSE M8 M12 XP ACBC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1200878806 | PSD | 000 | B |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 120087 | SEE PART LIST | GENERAL MARKET | 2 OF 3 |

# PART LIST

| MOLEX PN | ENGINEERING No | L [mm] |
|---|---|---|
| 3P CABLE B36 | | |
| 1200878959 | 483030B36M0037Y | 300 |
| 4P CABLE B36 | | |
| 1200878960 | 484030B36M0037Y | 300 |
| 3P CABLE B41 | | |
| 1200878805 | 483030B41M006 | 600 |
| 1200878938 | 483030B41M006H | 600 |
| 1200878806 | 483030B41M010 | 1000 |
| 1200878939 | 483030B41M010H | 1000 |
| 1200878807 | 483030B41M020 | 2000 |
| 1200878940 | 483030B41M020H | 2000 |
| 1200878784 | 483030B41M030 | 3000 |
| 1200878929 | 483030B41M030H | 3000 |
| 1200878785 | 483030B41M050 | 5000 |
| 1200878930 | 483030B41M050H | 5000 |
| 1200878786 | 483030B41M100 | 10000 |
| 1200878931 | 483030B41M100H | 10000 |
| 1200878958 | 483030B41M150 | 15000 |
| 4P CABLE B41 | | |
| 1200878793 | 484030B41M006 | 600 |
| 1200878932 | 484030B41M006H | 600 |
| 1200878794 | 484030B41M010 | 1000 |
| 1200878933 | 484030B41M010H | 1000 |
| 1200878795 | 484030B41M020 | 2000 |
| 1200878934 | 484030B41M020H | 2000 |
| 1200878796 | 484030B41M030 | 3000 |
| 1200878935 | 484030B41M030H | 3000 |
| 1200878926 | 484030B41M040 | 4000 |
| 1200878797 | 484030B41M050 | 5000 |
| 1200878936 | 484030B41M050H | 5000 |
| 1200878798 | 484030B41M100 | 10000 |
| 1200878937 | 484030B41M100H | 10000 |
| 5P CABLE B41 | | |
| 1200878966 | 485030B41M005 | 500 |
| 1200878967 | 485030B41M010 | 1000 |
| 1200878968 | 485030B41M015 | 1500 |
| 1200878969 | 485030B41M020 | 2000 |
| 1200878970 | 485030B41M025 | 2500 |

| MOLEX PN | ENGINEERING No | L [mm] |
|---|---|---|
| 3P CABLE B55 | | |
| 1200878922 | 483030B55M050 | 5000 |

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| | |
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| 4 PLACES | ± |
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| 2 PLACES | ± 0.05 |
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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 M12 XP ACBC FE STR WSOR MA STR XM

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| 1200878806 | PSD | 000 | B |

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

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