

CONTACT POSITION FRONT VIEW  
FEMALE MALE

3 POLE

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

4 POLE

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

5 POLE

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

8 POLE

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

3 POLE

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

4 POLE

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

5 POLE

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

8 POLE

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

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

8

8

X

S

3

0

B

S

X

M

X

X

X

H

88 = M12x1  
DOUBLE ENDED

POLES:  
3 = 3 POLES  
4 = 4 POLES  
5 = 5 POLES  
8 = 8 POLES

HEADER:  
S30 = FEMALE STRAIGHT - MALE STRAIGHT

CABLE TYPE:  
BS1= 0.34mm<sup>2</sup> TPU, SHLD BK  
BS2= 0.25mm<sup>2</sup> TPU, SHLD BK

UNIT:  
M = METER

LENGTH:  
EXAMPLE:  
010 = 1 m  
050 = 5 m  
100 = 10 m

H=2x ID CARRIER  
  
COUPLING NUT:  
BLANK = KNU/HEX  
7 = TEFLON KNU  
  
OVERMOULD:  
BLANK = BLACK  
A = GREY  
G = BLACK  
Y = YELLOW

VIEW FROM THE FRONT SIDE  
SCALE 2:1

VIEW FROM THE FRONT SIDE  
SCALE 2:1

NOTES:

CONTACT CURRENT RATING:  
3-5 POLES 4A  
8 POLES 2A

VOLTAGE RATING  
3-4 POLES 250V  
5 POLES 60V  
8 POLES 30V

PROTECTION CLASS IP67

| FUNCTIONAL SYMBOLS                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|                                                      | DIMENSION UNITS                                                                                                                               | SCALE                  |
| = 0                                                  | mm                                                                                                                                            | 1:1                    |
| = 0                                                  | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                        |
| = 0                                                  | ANGULAR TOL ± 1.0 °                                                                                                                           |                        |
| DIVISIONAL SYMBOLS                                   | 4 PLACES                                                                                                                                      | ±                      |
|                                                      | 3 PLACES                                                                                                                                      | ±                      |
|                                                      | 2 PLACES                                                                                                                                      | ± 0.05                 |
|                                                      | 1 PLACE                                                                                                                                       | ± 0.3                  |
|                                                      | 0 PLACES                                                                                                                                      | ± 0.5                  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                                                                                               | THIRD ANGLE PROJECTION |
|                                                      |                                                                                                                                               | DRAWING                |
|                                                      |                                                                                                                                               | SERIES                 |
|                                                      |                                                                                                                                               | MATERIAL NUMBER        |
|                                                      |                                                                                                                                               | CUSTOMER               |
|                                                      |                                                                                                                                               | SHEET NUMBER           |

|                                                                     |  |  |                                         |  |  |
|---------------------------------------------------------------------|--|--|-----------------------------------------|--|--|
| CURRENT REV DESC: NEW P/N ADDED                                     |  |  | <b>molex</b>                            |  |  |
| EC NO: 772068<br>DRWN: RSCHIEBER<br>CHK'D: RSILLER<br>APPR: RSILLER |  |  | CSE M12 M12 XP AC FE STR WSOR MA STR XM |  |  |
| INITIAL REVISION:<br>DRWN: RSCHIEBER<br>APPR: RSILLER               |  |  | PRODUCT CUSTOMER DRAWING                |  |  |
| DOCUMENT NUMBER                                                     |  |  | 1200698654                              |  |  |
| DOCT TYPE                                                           |  |  | PSD                                     |  |  |
| DOC PART                                                            |  |  | 000                                     |  |  |
| REVISION                                                            |  |  | A                                       |  |  |

|                                                     |    |              |            |          |  |
|-----------------------------------------------------|----|--------------|------------|----------|--|
| SHIELD CONNECTED TO THE COUPLING NUT FROM BOTH SIDE |    |              |            |          |  |
| DOCUMENT STATUS                                     | P1 | RELEASE DATE | 2023/12/22 | 02:51:05 |  |

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## PART LIST

| MOLEX PN   | ENGINEERING No | L+Tol. [mm] |
|------------|----------------|-------------|
| 1200698644 | 883S30BS1M010  | 1000 +40    |
| 1200698645 | 883S30BS1M020  | 2000 +60    |
| 1200698646 | 883S30BS1M030  | 3000 +60    |
| 1200698647 | 883S30BS1M050  | 5000 +60    |
| 1200698648 | 883S30BS1M100  | 10000 +80   |

| MOLEX PN   | ENGINEERING No | L+Tol. [mm] |
|------------|----------------|-------------|
| 1200698649 | 884S30BS1M010  | 1000 +40    |
| 1200698650 | 884S30BS1M020  | 2000 +60    |
| 1200699353 | 884S30BS1M025  | 2500 +60    |
| 1200698651 | 884S30BS1M030  | 3000 +60    |
| 1200698652 | 884S30BS1M050  | 5000 +60    |
| 1200698653 | 884S30BS1M100  | 10000 +80   |

| MOLEX PN   | ENGINEERING No | L+Tol. [mm] |
|------------|----------------|-------------|
| 1200699539 | 885S30BS1M005  | 500 +40     |
| 1200698654 | 885S30BS1M010  | 1000 +40    |
| 1200698757 | 885S30BS1M015  | 1500 +60    |
| 1200698655 | 885S30BS1M020  | 2000 +60    |
| 1200698656 | 885S30BS1M030  | 3000 +60    |
| 1200698758 | 885S30BS1M040  | 4000 +60    |
| 1200698657 | 885S30BS1M050  | 5000 +60    |
| 1200698658 | 885S30BS1M100  | 10000 +80   |
| 1200699482 | 885S30BS1M100H | 10000 +80   |
| 1200699061 | 885S30BS1M200  | 20000 +140  |
| 1200699483 | 885S30BS1M200H | 20000 +140  |
| 1200699762 | 885S30BS1M030H | 3000 +60    |
| 1200699763 | 885S30BS1M150H | 15000 +140  |
| 1200699764 | 885S30BS1M300H | 30000 +160  |

| MOLEX PN   | ENGINEERING No | L+Tol. [mm] |
|------------|----------------|-------------|
| 1200698659 | 888S30BS2M010  | 1000 +40    |
| 1200698835 | 888S30BS2M015  | 1500 +60    |
| 1200698660 | 888S30BS2M020  | 2000 +60    |
| 1200698836 | 888S30BS2M025  | 2500 +60    |
| 1200698661 | 888S30BS2M030  | 3000 +60    |
| 1200698837 | 888S30BS2M040  | 4000 +60    |
| 1200698662 | 888S30BS2M050  | 5000 +60    |
| 1200698848 | 888S30BS2M060  | 6000 +80    |
| 1200699815 | 888S30BS2M070  | 7000 +80    |
| 1200698663 | 888S30BS2M100  | 10000 +80   |
| 1200698998 | 888S30BS2M150  | 15000 +140  |
| 1200699394 | 888S30BS2M200  | 20000 +140  |
| 1200699600 | 888S30BS2M500  | 50000 +500  |
| 1200699754 | 888S30BS2M300  | 30000 +160  |

A

## CABLE SPECIFICATION

| CABLE TYPE   | WIRE GAUGE          | CABLE JACKET | UL          | CSA | static             | flexing              | drag chain tested | shield | other                |
|--------------|---------------------|--------------|-------------|-----|--------------------|----------------------|-------------------|--------|----------------------|
| BS1 3P,4P,5P | 0.34mm <sup>2</sup> | TPU black    | STYLE 21215 | yes | -40°C to +90°C 5xD | -25°C to +80°C 7.5xD | 5 mio cycles      | braid  | WELD SLAG RESISTANCE |
| BS2 8P       | 0.25mm <sup>2</sup> |              |             |     |                    |                      |                   |        |                      |

For Raw Cable Specification see SD-120209-003

## BILL OF MATERIAL

|      |      |                         |             |                     |
|------|------|-------------------------|-------------|---------------------|
| 11   | 2    | ID CARRIER (SEE MATRIX) | PVC         | -                   |
| 10   | 1    | LABEL YE                | VINYL       | -                   |
| 9    | 1    | INSERT XP MA M12 SH BK  | PUR         | -                   |
| 8    | X    | CONTACT MA              | BRASS       | GOLD OVER Ni-PLATED |
| 7    | 1    | KNU/HEX NUT M12 MA      | BRASS       | Ni-PLATED           |
| 6    | 1    | GASKET RD               | FPM         | -                   |
| 5    | 1    | INSERT XP FE M12 SH BK  | PUR         | -                   |
| 4    | X    | CONTACT FE              | BRASS       | GOLD OVER Ni-PLATED |
| 3    | 1    | KNU/HEX NUT M12 FE      | BRASS       | Ni-PLATED           |
| 2    | -    | OVERMOULD BK            | TPU         | -                   |
| 1    | -    | CABLE                   | SEE SHEET 2 | -                   |
| ITEM | QTY. | DESCRIPTION             | MATERIAL    | FINISH              |

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

|                    |                                                                                                                                               |  |                                                                                                                                                                                     |         |                                 |                          |  |                                                                     |          |          |              |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------|--------------------------|--|---------------------------------------------------------------------|----------|----------|--------------|
| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                                                                                                                                                     |         |                                 |                          |  |                                                                     |          |          |              |
|                    | DIMENSION UNITS                                                                                                                               |  | SCALE                                                                                                                                                                               |         | CURRENT REV DESC: NEW P/N ADDED |                          |  | <div>molex</div> <div>CSE M12 M12 XP AC FE STR WSOR MA STR XM</div> |          |          |              |
|                    | mm                                                                                                                                            |  | 1:1                                                                                                                                                                                 |         |                                 |                          |  |                                                                     |          |          |              |
|                    | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  | EC NO: 772068<br>DRWN: RSCHIEBER 2023/12/14<br>CHK'D: RSILLER 2023/12/22<br>APPR: RSILLER 2023/12/22<br>INITIAL REVISION:<br>DRWN: RSCHIEBER 2023/12/14<br>APPR: RSILLER 2023/12/22 |         |                                 | PRODUCT CUSTOMER DRAWING |  |                                                                     |          |          |              |
|                    | ANGULAR TOL ± 1.0°                                                                                                                            |  |                                                                                                                                                                                     |         |                                 |                          |  |                                                                     |          |          |              |
|                    | 4 PLACES ±                                                                                                                                    |  |                                                                                                                                                                                     |         |                                 | DOCUMENT NUMBER          |  |                                                                     | DOC TYPE | DOC PART | REVISION     |
|                    | 3 PLACES ±                                                                                                                                    |  |                                                                                                                                                                                     |         |                                 | 1200698654               |  |                                                                     | PSD      | 000      | A            |
|                    | 2 PLACES ± 0.05                                                                                                                               |  |                                                                                                                                                                                     |         |                                 | MATERIAL NUMBER          |  |                                                                     | CUSTOMER |          | SHEET NUMBER |
|                    | 1 PLACE ± 0.3                                                                                                                                 |  | SEE PART LIST                                                                                                                                                                       |         |                                 | GENERAL MARKET           |  | 2 OF 2                                                              |          |          |              |
|                    | 0 PLACES ± 0.5                                                                                                                                |  |                                                                                                                                                                                     |         |                                 |                          |  |                                                                     |          |          |              |
| DIVISIONAL SYMBOLS | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |  | THIRD ANGLE PROJECTION                                                                                                                                                              |         | DRAWING                         | SERIES                   |  |                                                                     |          |          |              |
|                    |                                                                                                                                               |  |                                                                                                                                                                                     | A3-SIZE | 120069                          |                          |  |                                                                     |          |          |              |

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