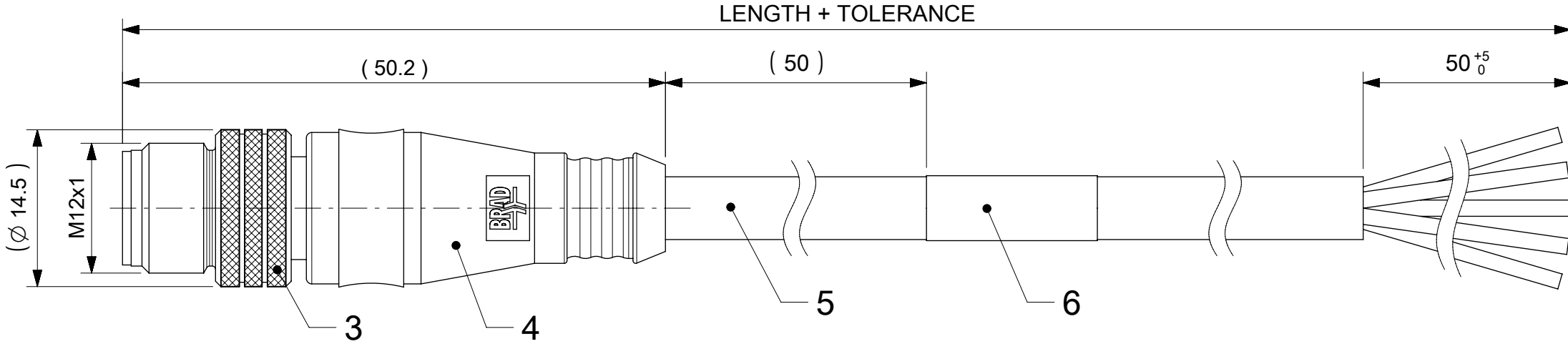
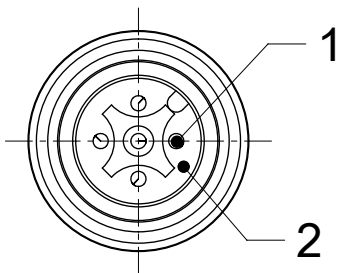
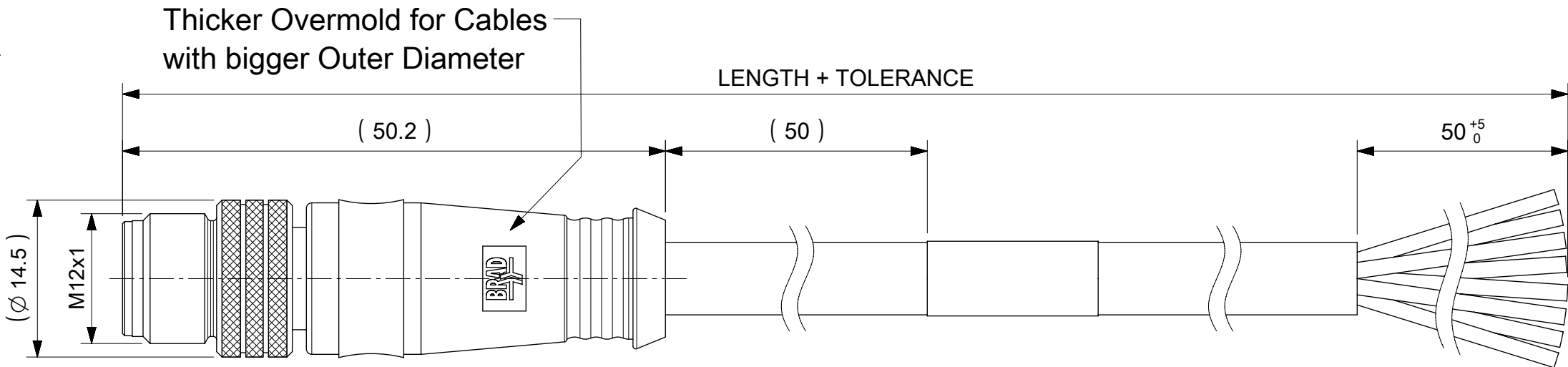
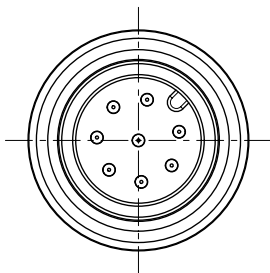


MALE PLUG M12 STRAIGHT



NOTES:  
RATED VOLTAGE: 3, 4 contacts 250V  
5 contacts 60V  
8 contacts 30V  
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 |        |
|------------------------------------|-------|------------|-------|------------|----------------------|------------|--------|
|                                    |       |            |       |            |                      |            |        |
| 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

|      |               |                   |             |                      |
|------|---------------|-------------------|-------------|----------------------|
| 7    | SEE MATRIX    | D CARRIER         | PVC         | TRANSPARENT          |
| 6    | 1             | LABEL YELLOW      | VINYL       | ---                  |
| 5    | -             | CABLE             | SEE SHEET 2 | ---                  |
| 4    | -             | OVERMOLDING BLACK | TPU         | ---                  |
| 3    | 1             | COUPLING NUT MALE | BRASS       | NICKEL               |
| 2    | 1             | INSERT MALE BLACK | PUR         | ---                  |
| 1    | 3 / 4 / 5 / 8 | CONTACT M12 MALE  | BRASS       | SELECTIVE Au OVER Ni |
| ITEM | QTY.          | DESCRIPTION       | MATERIAL    | FINISH               |

FUNCTIONAL SYMBOLS

$\sqrt{A}/0$

$\sqrt{E}/0$

$\sqrt{F}/0$

DIVISIONAL SYMBOLS

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

DIMENSION UNITS

mm

SCALE

2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL

$\pm 1.0^\circ$

4 PLACES

$\pm$

3 PLACES

$\pm$

2 PLACES

$\pm 0.05$

1 PLACE

$\pm 0.3$

0 PLACES

$\pm 0.5$

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: NEW P/N ADDED

EC NO: 780340

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2024/03/14

2024/03/18

2024/03/18

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/12

2016/04/08

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 4

CSE M12 XP AC MA STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

000

REVISION

A12

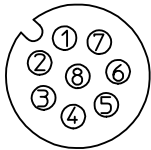


| 10        | 9   | 8          | 7               | 6            | 5   | 4          | 3               | 2            | 1   |            |                 |              |
|-----------|-----|------------|-----------------|--------------|-----|------------|-----------------|--------------|-----|------------|-----------------|--------------|
| PART LIST |     |            |                 |              |     |            |                 |              |     |            |                 |              |
| F         | No. | Part No.   | Engineering No. | Cable Length | No. | Part No.   | Engineering No. | Cable Length | No. | Part No.   | Engineering No. | Cable Length |
|           | 1   | 1200060046 | 804006E03M120   | 12m          | 36  | 1200062596 | 805006E03M003   | 0.3m         | 71  | 1200652158 | 805006P03M100   | 10m          |
|           | 2   | 1200060047 | 804006P03M050   | 5m           | 37  | 1200062631 | 805006P03M120   | 12m          | 72  | 1200655011 | 805006P03M005   | 0.5m         |
|           | 3   | 1200060240 | 803006E03M020   | 2m           | 38  | 1200062799 | 805006E03M010   | 1m           | 73  | 1200655051 | 805006E03M006   | 0.6m         |
|           | 4   | 1200060241 | 803006E03M050   | 5m           | 39  | 1200062830 | 804006E03M0205  | 2m           | 74  | 1200658055 | 803006P03M003   | 0.3m         |
| E         | 5   | 1200060242 | 803006E03M100   | 10m          | 40  | 1200062877 | 804006E03M0505  | 5m           | 75  | 1200658092 | 805006P03M010   | 1m           |
|           | 6   | 1200060256 | 803006P03M002   | 0.2m         | 41  | 1200062920 | 804006E03M1005  | 10m          | 76  | 1200658109 | 808006P02M003   | 0.3m         |
|           | 7   | 1200060257 | 803006P03M020   | 2m           | 42  | 1200063018 | 803006P03M0303  | 3m           | 77  | 1200658209 | 805006E03M0061  | ✱ 0.6m       |
|           | 8   | 1200060260 | 803006P03M030   | 3m           | 43  | 1200063077 | 804006E02M005   | 0.5m         | 78  | 1200658247 | 803006H09M100   | 10m          |
|           | 9   | 1200060261 | 803006P03M050   | 5m           | 44  | 1200063470 | 804006E03M010H  | 1m           | 79  | 1200658248 | 803006H09M050   | 5m           |
| D         | 10  | 1200060558 | 804006E03M006   | 0.6m         | 45  | 1200063472 | 804006P03M200   | 20m          | 80  | 1200658463 | 804006P03M150   | 15m          |
|           | 11  | 1200060559 | 804006E03M010   | 1m           | 46  | 1200063731 | 805006P03M0065  | 0.6m         | 81  | 1200658500 | 805006E03M1001  | 10m          |
|           | 12  | 1200060560 | 804006E03M020   | 2m           | 47  | 1200063732 | 804006E03M0501  | 5m           | 82  | 1200658518 | 804006E03M0201H | 2m           |
|           | 13  | 1200060561 | 804006E03M030   | 3m           | 48  | 1200063733 | 804006E03M1001  | ✱ 10m        | 83  | 1200658519 | 804006E03M0501H | 5m           |
|           | 14  | 1200060562 | 804006E03M050   | 5m           | 49  | 1200063856 | 804006E03M1501  | ✱ 15m        | 84  | 1200658526 | 803006E03M005   | 0.5m         |
| C         | 15  | 1200060563 | 804006E03M100   | 10m          | 50  | 1200063941 | 804006P03M0401  | 4m           | 85  | 1200658542 | 804006E03M070   | 7m           |
|           | 16  | 1200060570 | 804006P03M020   | 2m           | 51  | 1200063953 | 805006E03M035   | 3.5m         | 86  | 1200658546 | 808006E02M050   | 5m           |
|           | 17  | 1200060571 | 804006P03M030   | 3m           | 52  | 1200063969 | 804006E03M2001  | ✱✱ 20m       | 87  | 1200658565 | 803006E03M010   | 1m           |
|           | 18  | 1200060572 | 804006P03M100   | 10m          | 53  | 1200064160 | 803006P03M005   | 0.5m         | 88  | 1200658566 | 803006E03M040   | 4m           |
|           | 19  | 1200060667 | 805006E03M020   | 2m           | 54  | 1200064231 | 804006E03M2501  | ✱ 25m        | 89  | 1200658571 | 804006E03M040   | 4m           |
| B         | 20  | 1200060668 | 805006E03M030   | 3m           | 55  | 1200064240 | 804006P03M070   | 7m           | 90  | 1200658576 | 808006E02M010   | 1m           |
|           | 21  | 1200060680 | 805006P03M020   | 2m           | 56  | 1200064251 | 804006E03M003   | 0.3m         | 91  | 1200658612 | 803006P03M040   | 4m           |
|           | 22  | 1200060682 | 805006P03M050   | 5m           | 57  | 1200064252 | 804006E03M005   | 0.5m         | 92  | 1200658613 | 803006P03M100   | 10m          |
|           | 23  | 1200061345 | 805006E03M050   | 5m           | 58  | 1200064261 | 804006P03M011   | 1.1m         | 93  | 1200658653 | 803006H09M010   | 1m           |
|           | 24  | 1200061611 | 803006E03M150   | 15m          | 59  | 1200064347 | 804006P03M007   | 0.7m         | 94  | 1200658654 | 80              |              |

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



## 8 POLE MM

FEMALE INSERT 3P  
VIEW FROM FRONT SIDE

| Pin | WIRE COLOR | Wire color |
|-----|------------|------------|
| 1   | WHITE      | WH         |
| 2   | BROWN      | BN         |
| 3   | GREEN      | GN         |
| 4   | YELLOW     | YE         |
| 5   | GREY       | GY         |
| 6   | PINK       | PK         |
| 7   | BLUE       | BU         |
| 8   | RED        | RD         |

| Tablica tolerancji dlugosci<br>Table of length tolerances |                                    |                             |
|-----------------------------------------------------------|------------------------------------|-----------------------------|
| Powyzej<br>Over                                           | Do-wlacznie<br>Up to and including | Tolerancja (+)<br>Tolerance |
| 0                                                         | 305                                | +19                         |
| 305                                                       | 915                                | +45                         |
| 915                                                       | 1830                               | +56                         |
| 1830                                                      | 3660                               | +89                         |
| 3660                                                      | 7320                               | +165                        |
| 7320                                                      | 14640                              | +317                        |
| 14640                                                     | 30500                              | +610                        |
| 30500                                                     | >                                  | +2% dlugosci<br>of length   |

## PART No MATRIX

8

B-Micro  
Change

0

B-Portable

8

B-3 Core  
4-4 Core  
5-5 Core

0

B06+ Male straight

0

6

X

X

X

M

M-Metres  
F-Feet

X

X

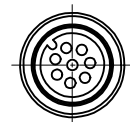
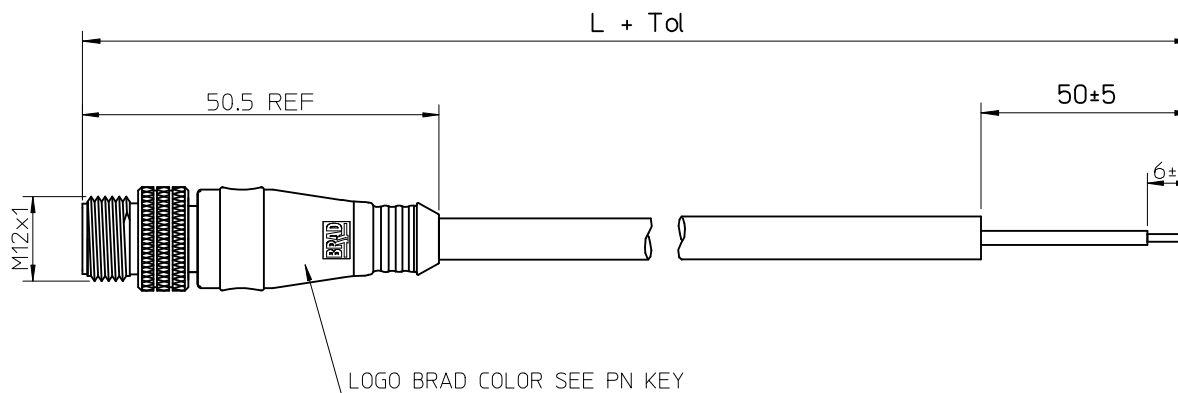
X

## OPTIONS

X

X

OVERMOULD COLOR

Blank=BLACK (Standard)  
A=GREY  
Y=YELLOWCoupling Nut Material  
Blank-Standard  
S-Stainless Steel  
5-5mmVIEW FROM  
FRONT SIDE

|                                                                                                           |             |                                                                                                                               |                                                            |       |                            |                           |                    |                                                 |                           |  |        |  |
|-----------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------|----------------------------|---------------------------|--------------------|-------------------------------------------------|---------------------------|--|--------|--|
| DRAWING UPDATE<br>EC NO: IPG2013-0156<br>DRWN:HWALCZAK 2012/07/03<br>CHKD:<br>APPR:MIWASIECZKO 2012/10/11 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>---       | DESIGN UNITS<br>METRIC                          | FIRST ANGLE<br>PROJECTION |  |        |  |
|                                                                                                           |             |                                                                                                                               |                                                            | mm    | INCH                       | DRAWN BY<br>HWALCZAK      | DATE<br>2012/02/10 | TITLE<br>CSE M12 8P AC MA STR<br>PUR XM SE UNSH |                           |  |        |  |
|                                                                                                           |             |                                                                                                                               | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>JMARSZALEK  | DATE<br>2012/02/16 |                                                 |                           |  |        |  |
|                                                                                                           |             |                                                                                                                               | 3 PLACES                                                   | ± --- | ± ---                      |                           |                    |                                                 |                           |  |        |  |
|                                                                                                           |             |                                                                                                                               | 2 PLACES                                                   | ± --- | ± ---                      | APPROVED BY<br>MDYSZEWSKA | DATE<br>2012/02/16 | MOLEX INCORPORATED                              |                           |  |        |  |
|                                                                                                           |             |                                                                                                                               | 1 PLACE                                                    | ± --- | ± ---                      |                           |                    |                                                 |                           |  |        |  |
|                                                                                                           |             |                                                                                                                               | ANGULAR ±---°                                              |       | MATERIAL NO.               | DOCUMENT NO.              |                    |                                                 | SHEET NO.                 |  |        |  |
|                                                                                                           |             |                                                                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | MATRIX DRAWING             |                           |                    | SD-120065-001                                   |                           |  | 1 OF 1 |  |
| A1                                                                                                        | REV         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                            |       |                            |                           |                    |                                                 |                           |  |        |  |