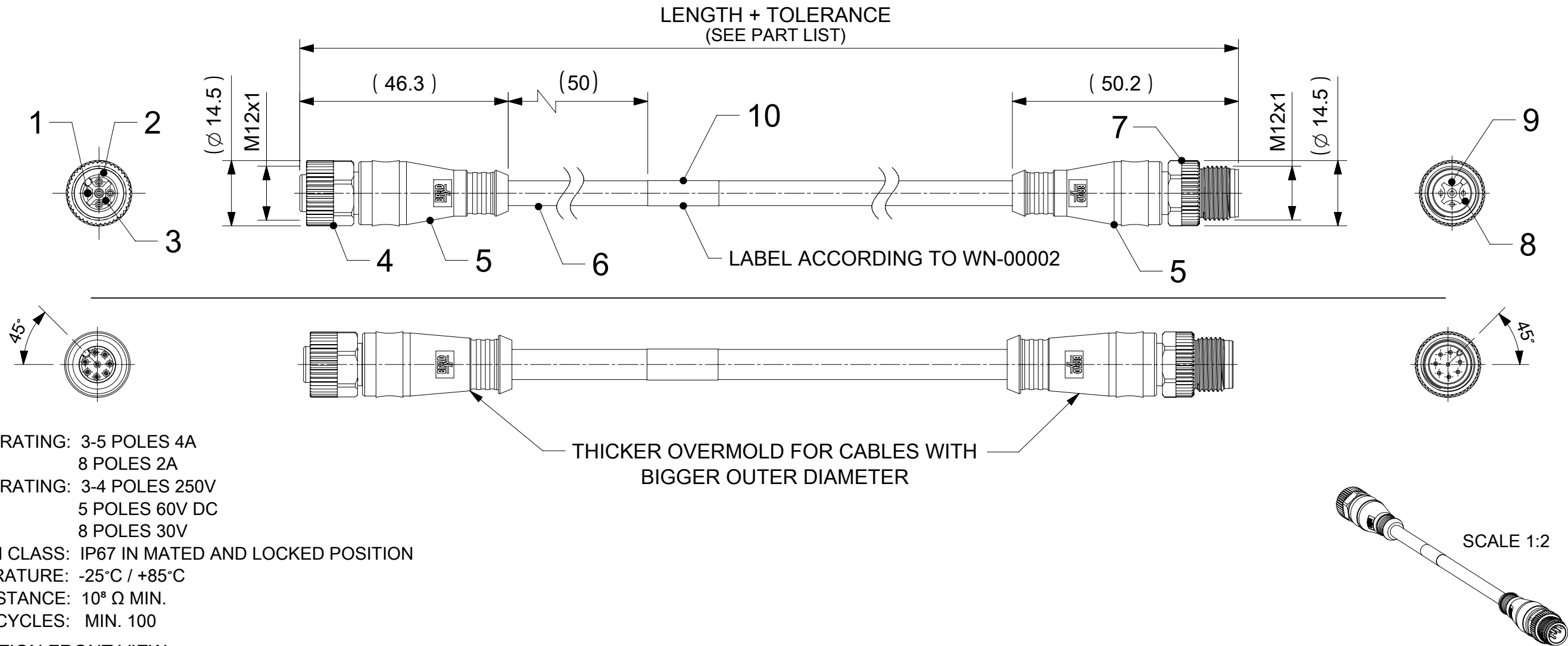


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



| CABLE       | 3 POLES  |       | 4 POLES            |       | 5 POLES            |       | 5 POLES |                  | 8 POLES  |        |
|-------------|----------|-------|--------------------|-------|--------------------|-------|---------|------------------|----------|--------|
|             | B30, B55 |       | B30, B33, B36, B55 |       | B30, B33, B36, B55 |       | B42     |                  | B41, B49 |        |
| FEMALE      |          |       |                    |       |                    |       |         |                  |          |        |
|             |          |       |                    |       |                    |       |         |                  |          |        |
| MALE        |          |       |                    |       |                    |       |         |                  |          |        |
|             |          |       |                    |       |                    |       |         |                  |          |        |
| CONNECTIONS | PIN      | WIRE  | PIN                | WIRE  | PIN                | WIRE  | PIN     | WIRE             | PIN      | WIRE   |
|             | 1        | BROWN | 1                  | BROWN | 1                  | BROWN | 1       | BROWN            | 1        | WHITE  |
|             | 2        | ---   | 2                  | WHITE | 2                  | WHITE | 2       | WHITE            | 2        | BROWN  |
|             | 3        | BLUE  | 3                  | BLUE  | 3                  | BLUE  | 3       | BLUE             | 3        | GREEN  |
|             | 4        | BLACK | 4                  | BLACK | 4                  | BLACK | 4       | BLACK            | 4        | YELLOW |
|             | 5        | ---   | 5                  | ---   | 5                  | GREY  | 5       | GREEN/<br>YELLOW | 5        | GREY   |
|             |          |       |                    |       |                    |       |         |                  | 6        | PINK   |
|             |          |       |                    |       |                    |       |         |                  | 7        | BLUE   |
|             |          |       |                    |       |                    |       |         |                  | 8        | RED    |
|             |          |       |                    |       |                    |       |         |                  |          |        |

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS | P1 | RELEASE DATE | 2024/07/02 | 09:17:54

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

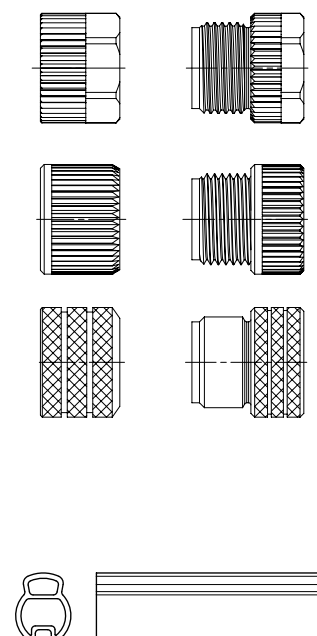
|      |           |                     |             |                            |
|------|-----------|---------------------|-------------|----------------------------|
| 10   | 1         | LABEL OR PRINTING   | VINYL / --- | ---                        |
| 9    | 3 / 4 / 5 | CONTACT M12 MALE    | COPPER      | SELECTIVE GOLD OVER NICKEL |
|      | 8         |                     | BRASS       | SELECTIVE GOLD OVER NICKEL |
| 8    | 1         | INSERT MALE BLACK   | TPU         | ---                        |
| 7    | 1         | COUPLING NUT MALE   | SEE SHEET 2 | SEE SHEET 2                |
| 6    | -         | CABLE               | SEE SHEET 2 | ---                        |
| 5    | -         | OVERMOULDING        | TPU         | SEE SHEET 2                |
| 4    | 1         | COUPLING NUT FEMALE | SEE SHEET 2 | SEE SHEET 2                |
| 3    | 1         | INSERT FEMALE BLACK | PUR         | ---                        |
| 2    | 1         | O-RING RED          | FPM         | ---                        |
| 1    | 3 / 4 / 5 | CONTACT M12 FEMALE  | BRONZE      | SELECTIVE GOLD OVER NICKEL |
|      | 8         |                     | BRASS       | SELECTIVE GOLD OVER NICKEL |
| ITEM | QTY.      | DESCRIPTION         | MATERIAL    | FINISH                     |

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: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4. |  |
| 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 |  | THIRD ANGLE PROJECTION |  |                                                                                                                                                                 |  |
|                                                      |  | DRAWING                |  |                                                                                                                                                                 |  |
|                                                      |  | SERIES                 |  |                                                                                                                                                                 |  |
|                                                      |  | MATERIAL NUMBER        |  |                                                                                                                                                                 |  |
|                                                      |  | CUSTOMER               |  |                                                                                                                                                                 |  |
|                                                      |  | SHEET NUMBER           |  |                                                                                                                                                                 |  |
|                                                      |  | A3-SIZE                |  |                                                                                                                                                                 |  |
|                                                      |  | 120066                 |  |                                                                                                                                                                 |  |
|                                                      |  | SEE SHEET 3 & 4        |  |                                                                                                                                                                 |  |
|                                                      |  | GENERAL MARKET         |  |                                                                                                                                                                 |  |
|                                                      |  | 1 OF 4                 |  |                                                                                                                                                                 |  |

## A

FEMALE      MALE



C

| CABLE TYPE | NO. OF WIRES | CROSS SECTION | CABLE JACKET | UL           | CSA                     | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | DRAG CHAIN: TEMP. / BENDING RADIUS | DRAG CHAIN                             | CABLE PRODUCT SPECIFICATION | CABLE SPEC. DRAWING |
|------------|--------------|---------------|--------------|--------------|-------------------------|--------------------------------|---------------------------------|------------------------------------|----------------------------------------|-----------------------------|---------------------|
| B30        | 3 / 4 / 5    | 0.34mm²       | TPU Black    | UL 21215/758 | C22.2 I/II A/B 80°/600V | -40°C to +90°C<br>5xO.D.       | -25°C to +80°C<br>7.5xO.D.      | -5°C to +60°C<br>7.5xO.D.          | up to 5 000 000 cycles<br>at temp 20°C | 1552200001                  | SD-120209-001       |
| B33        | 4 / 5        | 0.34mm²       | TPU Gray     |              |                         |                                |                                 |                                    |                                        |                             | SD-120209-002       |
| B36        | 4 / 5        | 0.34mm²       | TPU Orange   |              |                         |                                |                                 |                                    |                                        |                             | SD-120209-003       |
| B41        | 8            | 0.25mm²       | TPU Black    |              |                         |                                |                                 |                                    |                                        |                             | SD-120209-004       |
| B42        | 5            | 0.34mm²       | TPU Black    |              |                         |                                |                                 |                                    |                                        |                             | SD-120209-005       |
| B49        | 8            | 0.25mm²       | TPU Orange   |              |                         |                                |                                 |                                    |                                        |                             | SD-120209-006       |
| B55        | 3 / 4 / 5    | 0.34mm²       | TPU Yellow   |              |                         |                                |                                 |                                    |                                        |                             | n/a                 |

A

| 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 |

|                                                                                                                                               |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|--------------------------|--|----------------|--|--------------|--|
| 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: CHANGED DIMENSIONING<br>STYLE OF OVERALL LENGTH TO "END TO END".<br>ADDED B49 CABLE P/N'S & NOTES. SORTED PART<br>LIST USING CABLE TYPES ON SHEET 3&4. |  |          |  | <div>molex</div>         |  |                |  |              |  |
| mm                                                                                                                                            |  | 1:1                                                                                   |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| ANGULAR TOL ± 1.0°                                                                                                                            |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| 4 PLACES ±                                                                                                                                    |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| 3 PLACES ±                                                                                                                                    |  | 2 PLACES ± 0.05                                                                       |  | CSE M12 XP AC FE STR WSOR MA STR XM DE                                                                                                                                   |  |          |  | PRODUCT CUSTOMER DRAWING |  |                |  |              |  |
| 1 PLACES ± 0.3                                                                                                                                |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| 0 PLACES ± 0.5                                                                                                                                |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| INITIAL REVISION:                                                                                                                             |  |                                                                                       |  | DOCUMENT NUMBER                                                                                                                                                          |  | DOC TYPE |  | DOC PART                 |  | REVISION       |  |              |  |
| DRWN: JMARSZALEK 2016/07/22                                                                                                                   |  |                                                                                       |  | 1200668993                                                                                                                                                               |  | PSD      |  | 000                      |  | B              |  |              |  |
| APPR: RSILLER 2016/08/29                                                                                                                      |  |                                                                                       |  |                                                                                                                                                                          |  |          |  |                          |  |                |  |              |  |
| DRAWING WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                  |  | THIRD ANGLE PROJECTION                                                                |  | DRAWING                                                                                                                                                                  |  | SERIES   |  | MATERIAL NUMBER          |  | CUSTOMER       |  | SHEET NUMBER |  |
|                                                          |  |  |  | A3-SIZE                                                                                                                                                                  |  | 120066   |  | SEE SHEET 3 & 4          |  | GENERAL MARKET |  | 2 OF 4       |  |



|   |                              |                |       |                              |                |       |   |   |   |   |   |
|---|------------------------------|----------------|-------|------------------------------|----------------|-------|---|---|---|---|---|
|   | 10                           | 9              | 8     | 7                            | 6              | 5     | 4 | 3 | 2 | 1 |   |
| F | PART LIST                    |                |       |                              |                |       |   |   |   |   | F |
| E | MOLEX PNENGINEERING NoL [mm] |                |       | MOLEX PNENGINEERING NoL [mm] |                |       |   |   |   |   |   |
|   | 8P CABLE B41                 |                |       | 4P CABLE B55                 |                |       |   |   |   |   |   |
|   | 1200668895                   | 888030B41M006  | 600   | 1200669734                   | 884030B55M005Y | 500   |   |   |   |   |   |
|   | 1200668896                   | 888030B41M010  | 1000  | 1200669618                   | 884030B55M010Y | 1000  |   |   |   |   |   |
|   | 1200665461                   | 888030B41M010R | 1000  | 1200669263                   | 884030B55M020Y | 2000  |   |   |   |   |   |
|   | 1200668897                   | 888030B41M020  | 2000  | 1200669264                   | 884030B55M030Y | 3000  |   |   |   |   |   |
|   | 1200665462                   | 888030B41M020R | 2000  | 1200669265                   | 884030B55M040Y | 4000  |   |   |   |   |   |
|   | 1200668898                   | 888030B41M030  | 3000  | 1200669266                   | 884030B55M050Y | 5000  |   |   |   |   |   |
|   | 1200665463                   | 888030B41M030R | 3000  | 1200669267                   | 884030B55M060Y | 6000  |   |   |   |   |   |
|   | 1200665464                   | 888030B41M040R | 4000  | 1200669418                   | 884030B55M070Y | 7000  |   |   |   |   |   |
| D | 1200668899                   | 888030B41M050  | 5000  | 1200657251                   | 884030B55M080Y | 8000  |   |   |   |   |   |
|   | 1200665465                   | 888030B41M050R | 5000  | 1200657252                   | 884030B55M090Y | 9000  |   |   |   |   |   |
|   | 1200669177                   | 888030B41M090  | 9000  | 1200669268                   | 884030B55M100Y | 10000 |   |   |   |   |   |
|   | 1200668900                   | 888030B41M100  | 10000 | 1200669269                   | 884030B55M120Y | 12000 |   |   |   |   |   |
|   | 1200669567                   | 888030B41M150  | 15000 | 1200669270                   | 884030B55M150Y | 15000 |   |   |   |   |   |
|   | 1200669568                   | 888030B41M200  | 20000 | 1200657253                   | 884030B55M160Y | 16000 |   |   |   |   |   |
|   | 5P CABLE B42                 |                |       | 1200669271                   | 884030B55M200Y | 20000 |   |   |   |   |   |
|   | 1200668823                   | 885030B42M006  | 600   | 1200669742                   | 884030B55M250Y | 25000 |   |   |   |   |   |
|   | 1200668824                   | 885030B42M010  | 1000  | 1200669743                   | 884030B55M300Y | 30000 |   |   |   |   |   |
|   | 1200668825                   | 885030B42M020  | 2000  | 5P CABLE B55                 |                |       |   |   |   |   |   |
| C | 1200668826                   | 885030B42M030  | 3000  | 1200669663                   | 885030B55M010Y | 1000  |   |   |   |   |   |
|   | 1200668827                   | 885030B42M050  | 5000  | 1200669664                   | 885030B55M020Y | 2000  |   |   |   |   |   |
|   | 1200668828                   | 885030B42M100  | 10000 | 1200669665                   | 885030B55M030Y | 3000  |   |   |   |   |   |
|   | 1200659548                   | 885030B42M150  | 15000 | 1200669666                   | 885030B55M050Y | 5000  |   |   |   |   |   |
|   | 1200659549                   | 885030B42M200  | 20000 | 1200669667                   | 885030B55M100Y | 10000 |   |   |   |   |   |
|   | 8P CABLE B49                 |                |       | 1200669668                   | 885030B55M150Y | 15000 |   |   |   |   |   |
|   | 1200669112                   | 888030B49M038Y | 3800  | 1200669669                   | 885030B55M200Y | 20000 |   |   |   |   |   |
|   |                              |                |       |                              |                |       |   |   |   |   |   |
|   |                              |                |       |                              |                |       |   |   |   |   |   |
|   | B                            |                |       |                              |                |       |   |   |   |   |   |
|   |                              |                |       |                              |                |       |   |   |   |   |   |
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