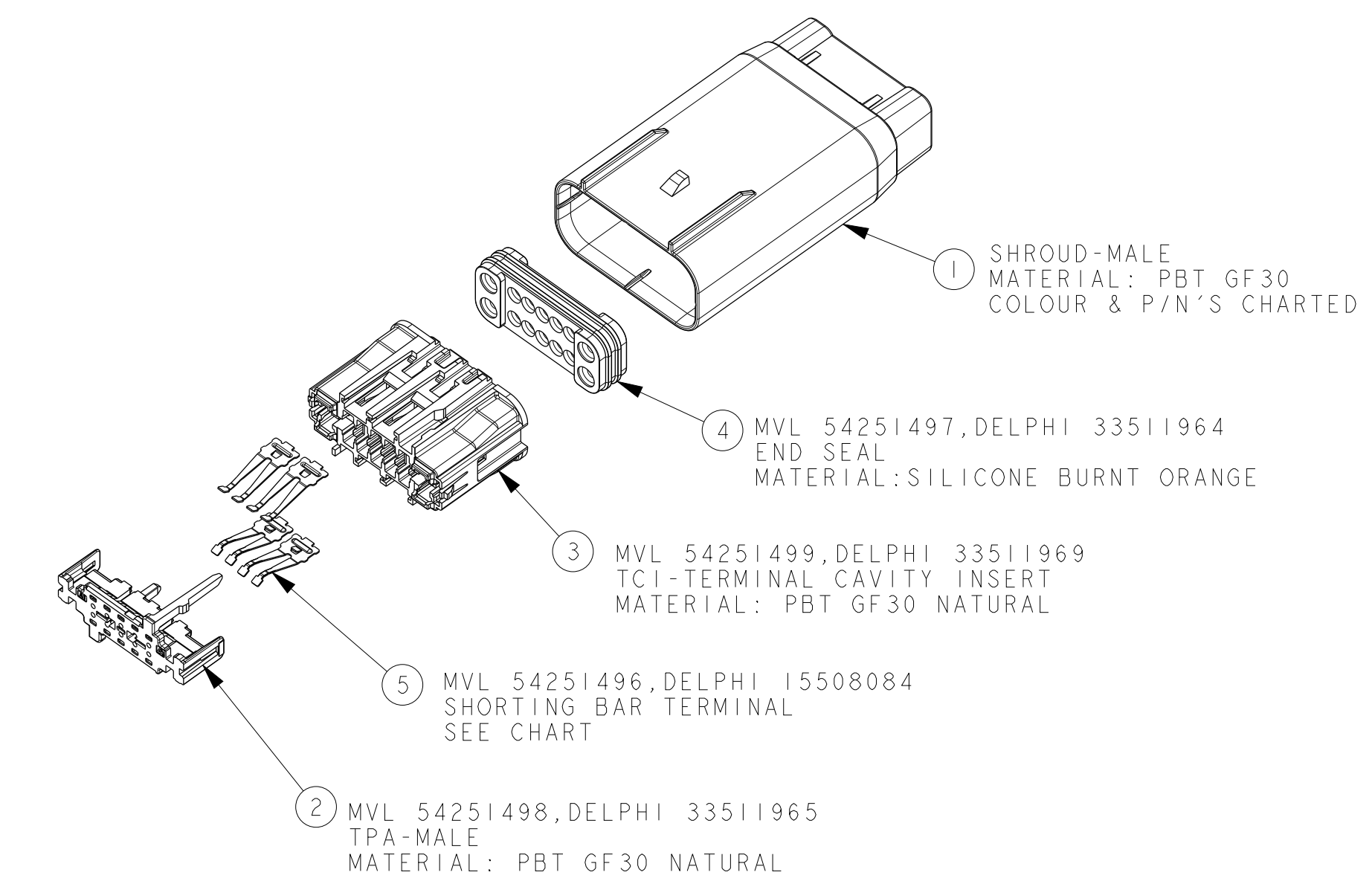


|   | 23                    |     |          |     | 22          |        | CLIP<br>SLOT<br>TYPE | 21         |          |              |          | 20                         |   | 19 |    | 18 |    | 17 |   | 16             |    | 15 |    | 14                                      |    |     |     |   |          |          |           |          |  |  |
|---|-----------------------|-----|----------|-----|-------------|--------|----------------------|------------|----------|--------------|----------|----------------------------|---|----|----|----|----|----|---|----------------|----|----|----|-----------------------------------------|----|-----|-----|---|----------|----------|-----------|----------|--|--|
|   | ASSEMBLY PART NUMBERS |     |          |     | KEY<br>TYPE | COLOR  |                      | COMPONENTS |          |              |          | Plugged (X) Seal Positions |   |    |    |    |    |    |   | Circuit Totals |    |    |    | Mates With Assembly<br>(Reference only) |    |     |     |   |          |          |           |          |  |  |
|   |                       |     |          |     |             |        |                      | HOUSING    |          | SHORTING BAR |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   |          |          |           |          |  |  |
|   | MVL                   | PCL | DELPHI   | REV |             |        | MVL                  | DELPHI     | MVL      | DELPHI       | 1        | 2                          | 3 | 4  | 5  | 6  | 7  | 8  | 9 | 10             | 11 | 12 | 13 | 14                                      | SB | 1.5 | 2.8 | T | MVL      | DELPHI   | MVL       | DELPHI   |  |  |
| R | 54251400              | D   | 13694022 | 01  | A           | BLACK  |                      | 54251454   | 33503643 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251400 | 13878050 | 55251400N | 33500361 |  |  |
|   | 54251401              | D   | 13977355 | 01  | B           | GREY   |                      | 54251455   | 33503644 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251401 | 15503430 | 55251401N | 33500362 |  |  |
|   | 54251402              | D   | 13977354 | 01  | C           | BROWN  |                      | 54251456   | 33503645 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251402 | 33500218 | 55251402N | 33500363 |  |  |
|   | 54251403              | D   | 33500168 | 01  | D           | GREEN  |                      | 54251457   | 33503646 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 54251403 | 33500168 | 54251403N | 33510988 |  |  |
|   | 54251404              | D   | 33500169 | 01  | A           | BLACK  |                      | 54251458   | 33503647 |              | N/A      |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251400 | 13878050 | 55251400N | 33500361 |  |  |
|   | 54251405              | D   | 33500170 | 01  | B           | GREY   |                      | 54251459   | 33503648 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251401 | 15503430 | 55251401N | 33500362 |  |  |
| Q | 54251406              | D   | 33500171 | 01  | C           | BROWN  |                      | 54251460   | 33503649 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251402 | 33500218 | 55251402N | 33500363 |  |  |
|   | 54251407              | D   | 33500172 | 01  | D           | GREEN  |                      | 54251461   | 33503650 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251403 | 33500219 | 55251403N | 33500364 |  |  |
|   | 54251408              | D   | 15503367 | 01  | E           | YELLOW |                      | 54251462   | 33503651 |              |          |                            |   | SB |    |    |    |    |   |                |    |    |    |                                         | 1  |     | 10  | 4 | 14       | 55251404 | 13977360  |          |  |  |
|   | 54251409              | D   | 33500173 | 01  | F           | YELLOW |                      | 54251463   | 33503652 |              |          |                            |   |    | SB |    |    |    |   |                |    |    |    |                                         |    | 2   |     |   |          | 55251405 | 33500220  |          |  |  |
|   | 54251410              | D   | 33500174 | 01  | G           | YELLOW |                      | 54251464   | 33503653 |              |          |                            |   |    | SB |    |    |    |   |                |    |    |    |                                         |    | 1   |     |   |          | 55251406 | 33500221  |          |  |  |
|   | 54251411              | D   | 33500175 | 01  | H           | YELLOW |                      | 54251465   | 33503654 |              |          |                            |   |    |    | SB |    |    |   |                |    |    |    |                                         |    |     | 2   |   |          |          | 55251407  | 33500222 |  |  |
| P | 54251434              | D   | 33510945 | 01  | E           | YELLOW |                      | 54251438   | 33503628 |              | 54251496 | 15508084                   |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251404 | 13977360 |           |          |  |  |
|   | 54251435              | D   | 33510946 | 01  | F           | YELLOW |                      | 54251439   | 33503629 |              |          |                            |   |    |    | SB |    |    |   |                |    |    |    |                                         |    |     | 2   |   |          |          | 55251405  | 33500220 |  |  |
|   | 54251436              | D   | 13694023 | 01  | G           | YELLOW |                      | 54251440   | 33503630 |              |          |                            |   |    |    | SB |    |    |   |                |    |    |    |                                         |    | 1   |     |   |          | 55251406 | 33500221  |          |  |  |
|   | 54251437              | D   | 33510947 | 01  | H           | YELLOW |                      | 54251441   | 33503631 |              |          |                            |   |    |    |    | SB |    |   |                |    |    |    |                                         |    | 2   |     |   |          | 55251407 | 33500222  |          |  |  |
|   | 54251412              | D   | 13878051 | 01  | A           | BLACK  |                      | 54251442   | 33511963 |              |          |                            |   | X  |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251408 | 33500223 | 55251408N | 33500365 |  |  |
|   | 54251413              | D   | 33500176 | 01  | B           | GREY   |                      | 54251443   | 33503632 |              |          |                            |   | X  |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251409 | 33500224 | 55251409N | 33500370 |  |  |
| O | 54251414              | D   | 33500177 | 01  | A           | BLACK  |                      | 54251446   | 33503635 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251408 | 33500223 | 55251408N | 33500369 |  |  |
|   | 54251415              | D   | 33500178 | 01  | B           | GREY   |                      | 54251447   | 33503636 |              |          |                            |   | X  |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251409 | 33500224 | 55251409N | 33500370 |  |  |
|   | 54251416              | D   | 33500179 | 01  | A           | BLACK  |                      | 54251442   | 33511963 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251410 | 33500225 | 55251410N | 33500371 |  |  |
|   | 54251417              | D   | 33500180 | 01  | B           | GREY   |                      | 54251443   | 33503632 |              |          |                            |   |    | X  |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251411 | 33500226 | 55251411N | 33500372 |  |  |
|   | 54251418              | D   | 33500181 | 01  | A           | BLACK  |                      | 54251446   | 33503635 |              |          |                            |   |    |    | X  |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251410 | 33500225 | 55251410N | 33500371 |  |  |
|   | 54251419              | D   | 33500182 | 01  | B           | GREY   |                      | 54251447   | 33503636 |              |          |                            |   |    |    | X  |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251411 | 33500226 | 55251411N | 33500372 |  |  |
| N | 54251420              | D   | 33500183 | 01  | A           | BLACK  |                      | 54251442   | 33511963 |              |          |                            |   |    |    | X  |    | X  |   |                |    |    |    |                                         |    |     |     |   | 55251412 | 33500227 | 55251412N | 33500373 |  |  |
|   | 54251421              | D   | 33500184 | 01  | B           | GREY   |                      | 54251443   | 33503636 |              |          |                            |   |    |    |    | X  | X  |   |                |    |    |    |                                         |    |     |     |   | 55251413 | 33500228 | 55251413N | 33500374 |  |  |
|   | 54251422              | D   | 33500185 | 01  | A           | BLACK  |                      | 54251446   | 33503635 |              |          |                            |   |    |    |    | X  |    | X |                |    |    |    |                                         |    |     |     |   | 55251412 | 33500227 | 55251412N | 33500373 |  |  |
|   | 54251423              | D   | 33500186 | 01  | B           | GREY   |                      | 54251447   | 33503636 |              |          |                            |   |    |    |    |    | X  | X |                |    |    |    |                                         |    |     |     |   | 55251413 | 33500228 | 55251413N | 33500374 |  |  |
|   | 54251424              | D   | 33500187 | 01  | A           | BLACK  |                      | 54251442   | 33511963 |              |          |                            |   | X  |    |    |    |    |   |                | X  |    |    |                                         |    |     |     |   | 55251414 | 33500229 | 55251414N | 33500375 |  |  |
|   | 54251425              | D   | 33500188 | 01  | B           | GREY   |                      | 54251443   | 33503632 |              |          |                            |   | X  |    |    |    |    |   |                |    | X  |    |                                         |    |     |     |   | 55251415 | 33500230 | 55251415N | 33500376 |  |  |
| M | 54251426              | D   | 33500189 | 01  | A           | BLACK  |                      | 54251446   | 33503635 |              |          |                            |   |    |    |    |    |    |   |                |    | X  |    |                                         |    |     |     |   | 55251414 | 33500229 | 55251414N | 33500375 |  |  |
|   | 54251427              | D   | 33500190 | 01  | B           | GREY   |                      | 54251447   | 33503636 |              |          |                            |   | X  |    |    |    |    |   |                |    | X  |    |                                         |    |     |     |   | 55251415 | 33500230 | 55251415N | 33500376 |  |  |
|   | 54251428              | D   | 33500191 | 01  | A           | BLACK  |                      | 54251442   | 33511963 |              |          |                            |   | X  | X  | X  |    | X  |   | X              |    | X  |    |                                         |    |     |     |   | 55251416 | 33500231 | 55251416N | 33500377 |  |  |
|   | 54251429              | D   | 33500192 | 01  | B           | GREY   |                      | 54251443   | 33503635 |              |          |                            |   | X  | X  | X  |    | X  |   | X              |    | X  |    |                                         |    |     |     |   | 55251417 | 33500232 | 55251417N | 33500378 |  |  |
|   | 54251430              | D   | 33500193 | 01  | A           | BLACK  |                      | 54251446   | 33503635 |              |          |                            |   | X  | X  | X  |    | X  |   | X              |    | X  |    |                                         |    |     |     |   | 55251416 | 33500231 | 55251416N | 33500377 |  |  |
|   | 54251431              | D   | 33500194 | 01  | B           | GREY   |                      | 54251447   | 33503636 |              |          |                            |   | X  | X  | X  |    | X  |   | X              |    | X  |    |                                         |    |     |     |   | 55251417 | 33500232 | 55251417N | 33500378 |  |  |
| L | 54251432              | D   | 33510948 | 01  | A           | BLACK  |                      | 54251442   | 33511963 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251418 | 33511512 |           |          |  |  |
|   | 54251433              | D   | 33510949 | 01  | B           | GREY   |                      | 54251443   | 33503632 |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55251419 | 33511513 |           |          |  |  |
|   | 54261400              | D   | 33511657 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261400 | 33511514 | 55261400N | 33511593 |  |  |
|   | 54261401              | D   | 33511658 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261401 | 33511515 | 55261401N | 33511594 |  |  |
|   | 54261402              | D   | 33511659 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261402 | 33511516 | 55261402N | 33511595 |  |  |
|   | 54261403              | D   | 33511660 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261403 | 33511517 | 55261403N | 33511596 |  |  |
| I | 54261404              | D   | 33511661 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261404 | 33511518 | 55261404N | 33511597 |  |  |
|   | 54261405              | D   | 33511662 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261405 | 33511519 | 55261405N | 33511598 |  |  |
|   | 54261406              | D   | 33511663 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261406 | 33511520 | 55261406N | 33511599 |  |  |
|   | 54261407              | D   | 33511664 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261407 | 33511521 | 55261407N | 33511600 |  |  |
|   | 54261408              | D   | 33511665 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261408 | 33511522 | 55261408N | 33511601 |  |  |
|   | 54261409              | D   | 33511666 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261409 | 33511523 | 55261409N | 33511602 |  |  |
| H | 54261410              | D   | 33511667 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261410 | 33511524 | 55261410N | 33511603 |  |  |
|   | 54261411              | G   | 33511668 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261411 | 33511525 |           |          |  |  |
|   | 54261412              | G   | 33511669 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261412 | 33511526 |           |          |  |  |
|   | 54261413              | G   | 33511670 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261413 | 33511527 |           |          |  |  |
|   | 54261414              | G   | 33511671 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261414 | 33511528 |           |          |  |  |
|   | 54261415              | G   | 33511672 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261415 | 33511529 |           |          |  |  |
| G | 54261416              | G   | 33510950 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261416 | 33511530 |           |          |  |  |
|   | 54261417              | G   | 33510951 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261417 | 33511531 |           |          |  |  |
|   | 54261418              | G   | 33510952 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261418 | 33511532 |           |          |  |  |
|   | 54261419              | G   | 33511673 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261419 | 33511533 |           |          |  |  |
|   | 54261420              | G   | 33511674 | 01  |             |        |                      |            |          |              |          |                            |   |    |    |    |    |    |   |                |    |    |    |                                         |    |     |     |   | 55261420 |          |           |          |  |  |

[illegible]

ACTUAL SIZE VIEWS

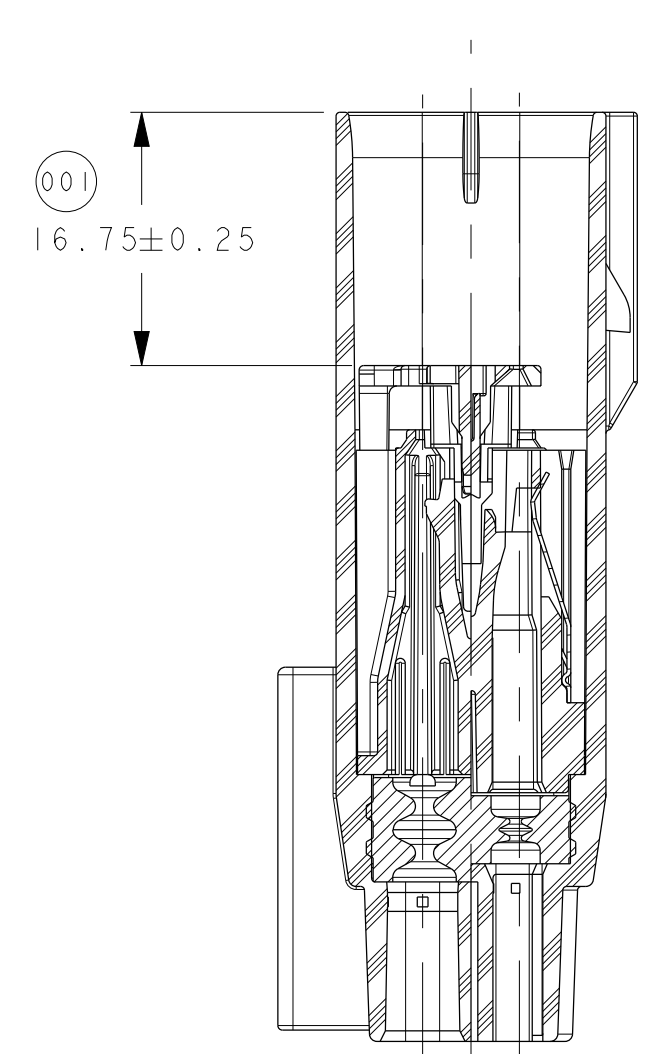
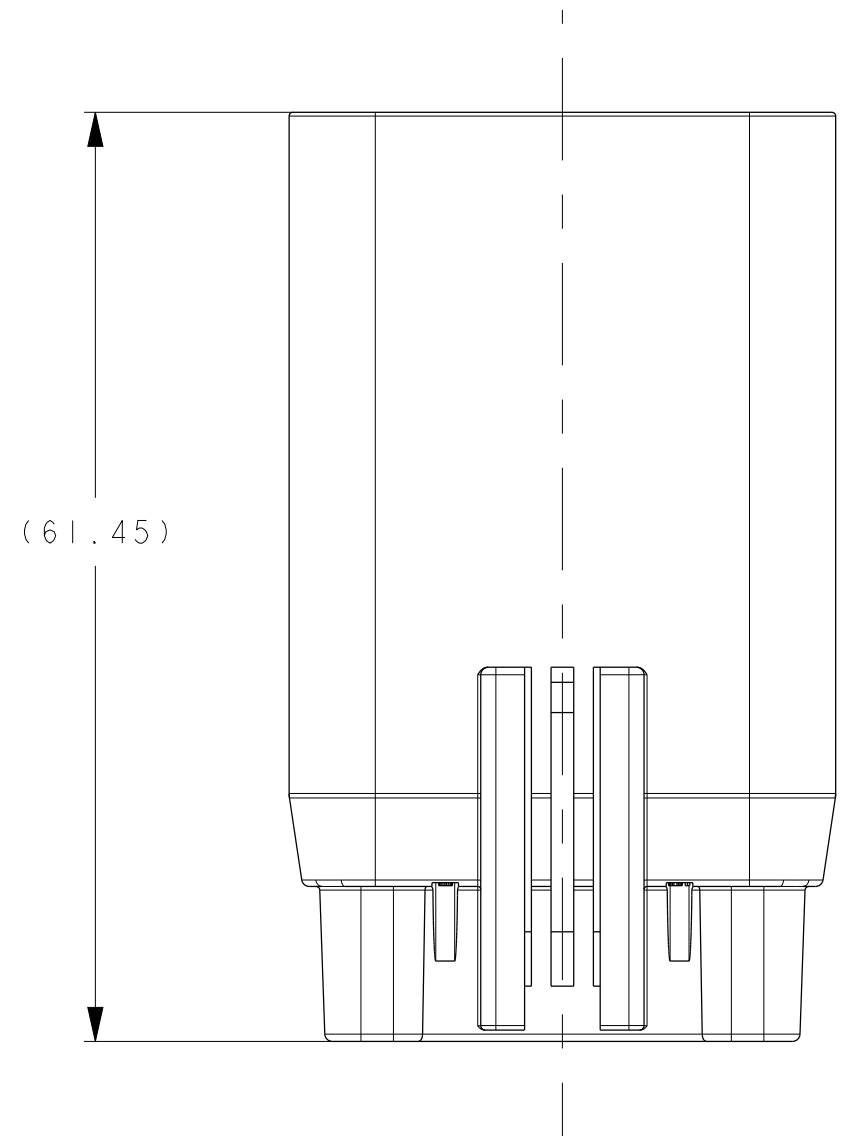
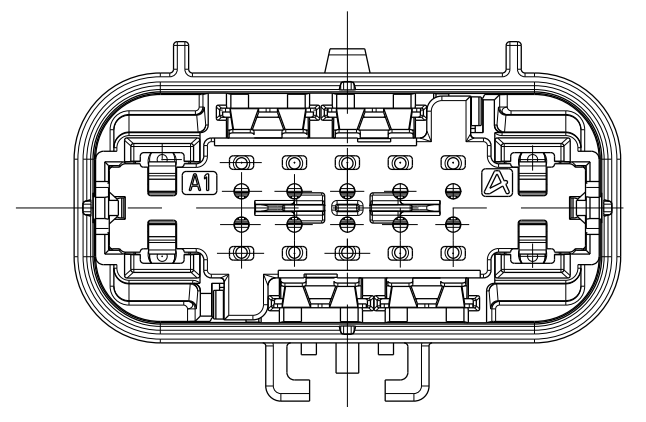
NOTE: ONE EACH OF FOLLOWING REQUIRED

② TPA MVL 54251498, DELPHI 33511965

③ TCI MVL 54251499, DELPHI 33511969

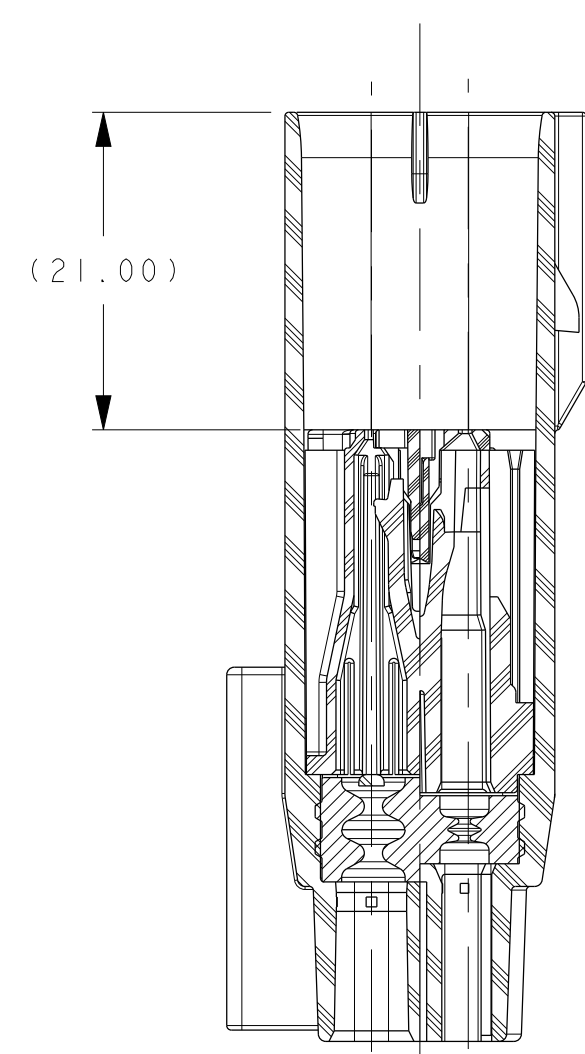
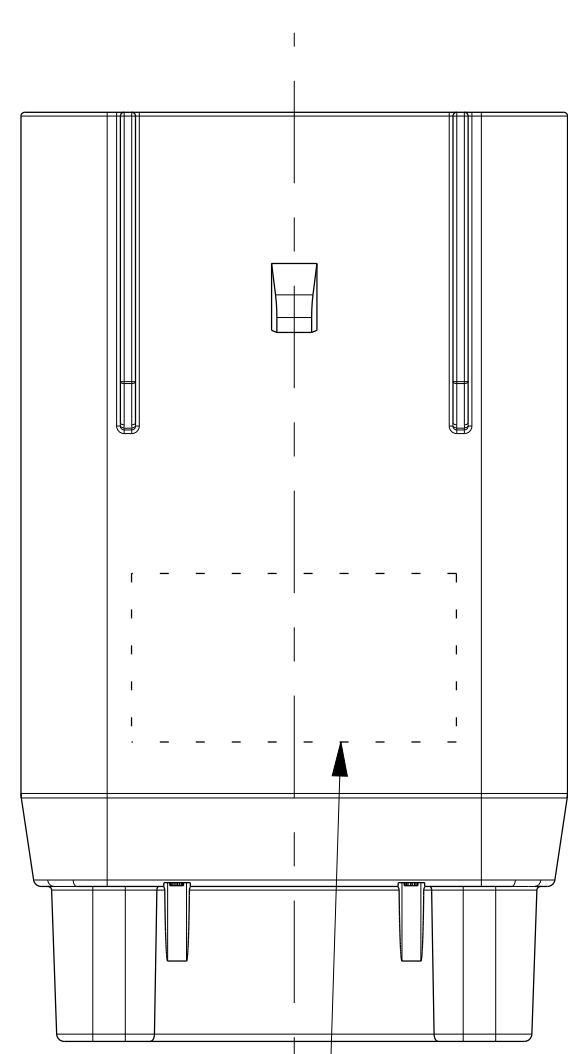
④ END SEAL MVL 54251497, DELPHI 33511964

[illegible]



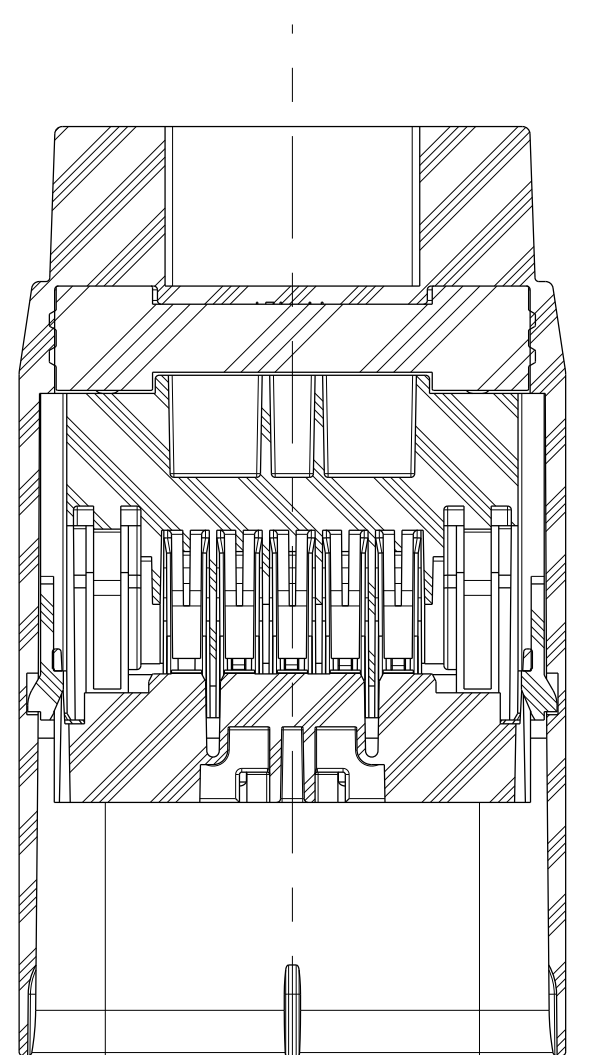
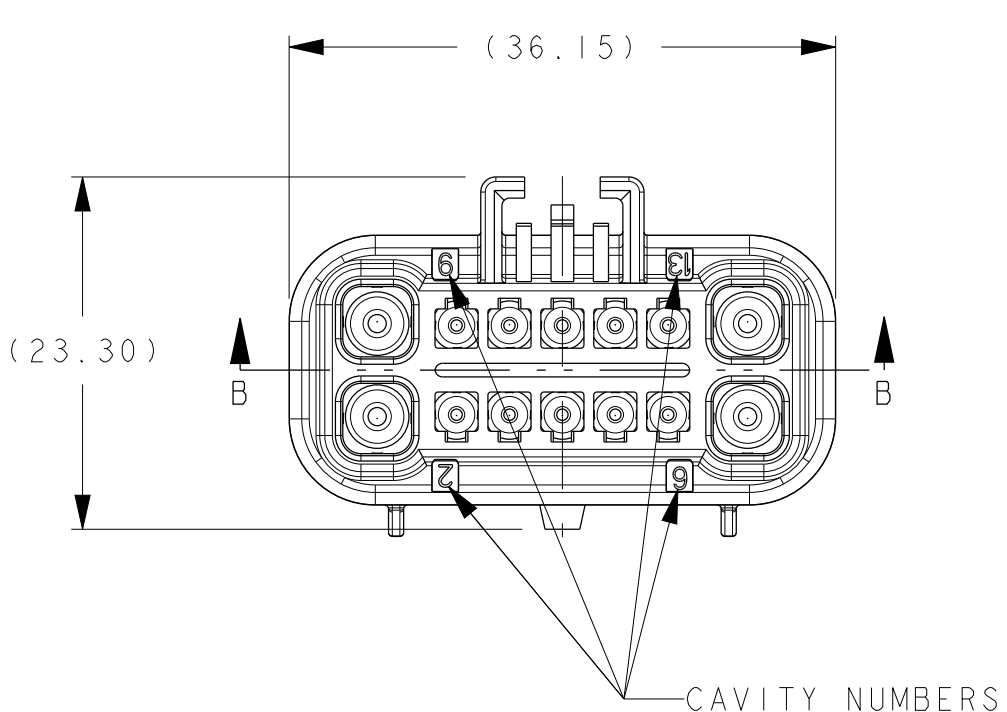
SECTION A - A

TPA IN PRE-LOCK POSITION

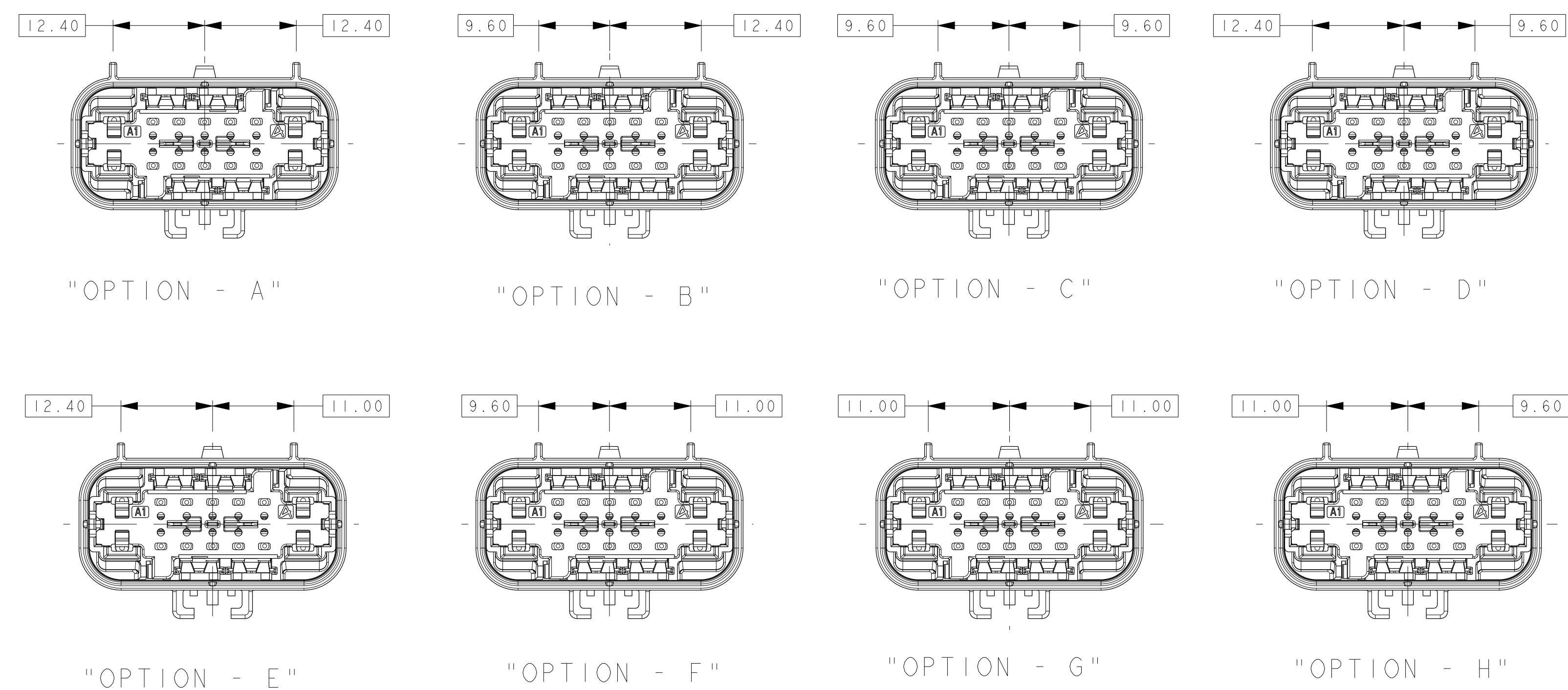


SECTION A-A  
SCALE 2.000

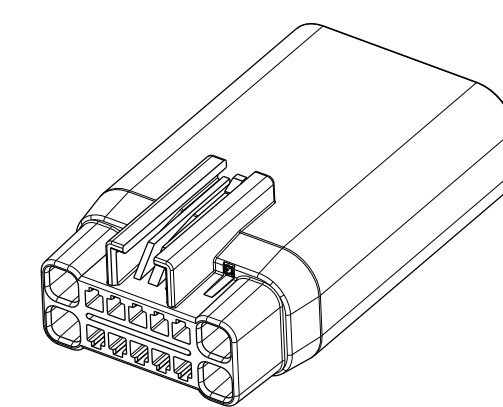
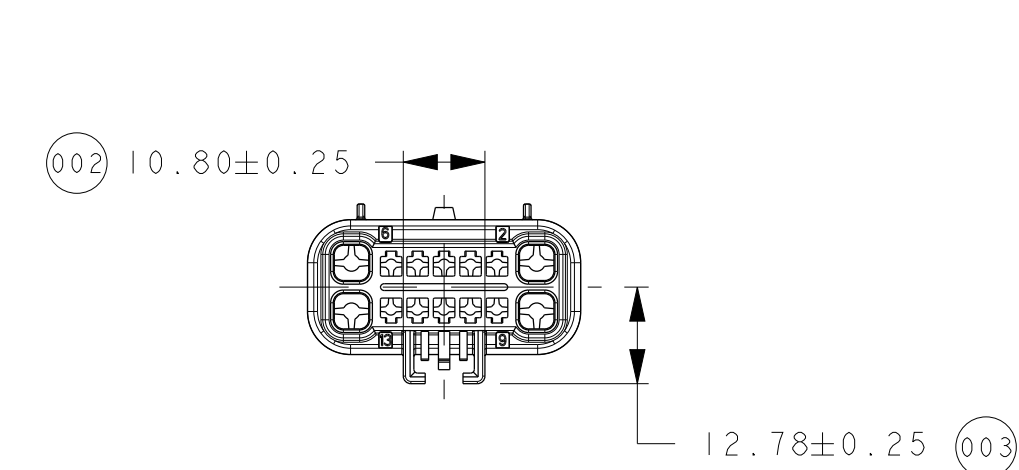
TPA IN FINAL POSITION



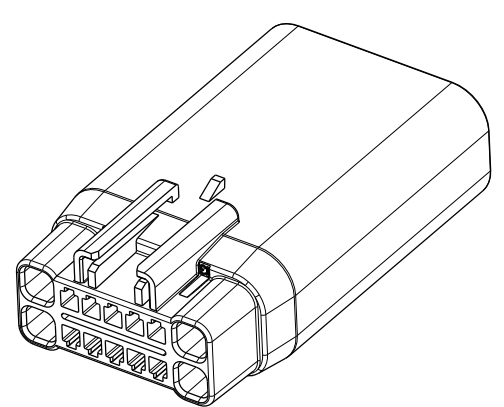
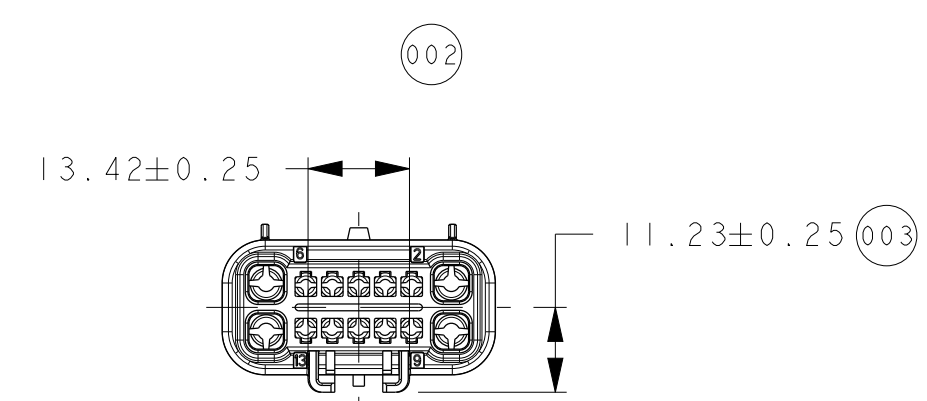
SECTION B-B



## POLARIZATION OPTIONS



CLIP SLOT TYPE - I



CLIP SLOT TYPE - 2

ACTUAL SIZE VIEWS

| APPLICABLE COMPONENTS |          |                                                                  |         |           |
|-----------------------|----------|------------------------------------------------------------------|---------|-----------|
| SUPPLIER              |          | ITEM DESCRIPTION                                                 | PLATING | GRIP SIZE |
| MVL                   | DELPHI   |                                                                  |         |           |
| 54001626              | 13630404 | APEX 150 TERMINAL                                                | TIN     | 16, 18    |
| 54002001              | 13624759 | APEX 150 TERMINAL                                                | TIN     | 20, 22    |
| 54001628              | 15520260 | APEX 150 TERMINAL                                                | GOLD    | 16, 18    |
| 54002003              | 15520262 | APEX 150 TERMINAL                                                | GOLD    | 20, 22    |
| 54001629              | 15520261 | APEX 150 TERMINAL-FOR SHORTING BAR                               | GOLD    | 16, 18    |
| 54002004              | 33500641 | APEX 150 TERMINAL-FOR SHORTING BAR                               | GOLD    | 20, 22    |
| 54001001              | 10762774 | APEX 2.8 TERMINAL                                                | TIN     | 12        |
| 54001401              | 10757692 | APEX 2.8 TERMINAL                                                | TIN     | 14, 16    |
| 54001801              | 10762775 | APEX 2.8 TERMINAL                                                | TIN     | 18        |
| 54240003              | 13765188 | APEX 150 2.8mm SEAL PLUG - MALE                                  | -       | -         |
| 54241629              | 13613164 | APEX 150 UNIVERSAL SEAL PLUG                                     | -       | -         |
| 54200010              | 13768145 | DBL X-MASTREE CLIP W/FORWARD STOP<br>(FOR TYPE I CLIP/STOP ONLY) | -       | -         |

| COMMON PART NUMBER CHART ONE EACH INCLUDED IN ASSEMBLY |              |          |             |          |
|--------------------------------------------------------|--------------|----------|-------------|----------|
| ITEM                                                   | PART NUMBERS |          | DESCRIPTION | MATERIAL |
|                                                        | MVL          | DELPHI   |             |          |
| 2                                                      | 54251498     | 33511965 | TPA         | PBT GF30 |
| 3                                                      | 54251499     | 33511969 | TCI         | PBT GF30 |
| 4                                                      | 54251497     | 33511964 | END SEAL    | SILICONE |

NOTES:

- 1) MAXIMUM TEMPERATURE CLASS:  
CLASS III (125°C)
- 2) TEST METHOD PER:  
SEE CHART
- 3) CONNECTOR MAY BE USED WITH THE FOLLOWING RANGE  
OF WIRE SIZES AND/TYPE:
- APEX 150 TERMINALS:
    - SIZE: 22 GAGE - 16 GAGE - 1.50mm MIN O.D. TO 2.41mm MAX O.D.
    - TYPE: TXL (MIL123-A / MS-8288)
  - ALTERNATELY:
    - SIZE : 0.75mm2 TO 1.5mm<sup>2</sup> / 1.70mm MIN O.D. TO 2.40mm MAX O.D.
    - TYPE : FLR2X (125°C PE-X) or FLRWY (125°C PVC)  
(STRUCTURE & PROPERTIES PER ISO6722)
  - APEX 2.8 TERMINALS:
    - SIZE: 18 GAGE-12 GAGE- 1.90mm MIN O.D. TO 3.30mm MAX O.D.
    - TYPE: TXL (MIL123-A / MS-8288)
  - ALTERNATELY:
    - SIZE : 1.00mm<sup>2</sup> TO 1.5mm<sup>2</sup> / 1.90mm MIN O.D. TO 3.00mm MAX O.D.
    - TYPE : FLR2X (125°C PE-X) or FLRWY (125°C PVC)  
(STRUCTURE & PROPERTIES PER ISO6722)
  - CONTACT MVL ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND/OR TYPES
- 4) CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
- MVL APEX150 AND APEX 2.8 WITH WIRE SIZES DEFINED  
IN MVL SPECIFICATION #AQA-001 AND C15005 FOR  
SPECIFIC PART NUMBERS AND CRIMPING REQUIREMENTS.
  - CONTACT MVL ENGINEERING REGARDING USE OF COMPATIBLE  
NON MVL TERMINALS
- 5) ANNUAL QUALITY REQUIREMENTS:
- IT IS THE RESPONSIBILITY TO PERFORM CONTINUOUS CONFORMANCE  
PER MVL SPECIFICATION #AQA-001 INSTEAD OF ANNUAL  
LAYOUT AND ANNUAL PV REQUIREMENTS OF QS-9000 SECTION 2  
AND SAE/USCAR-2
- 6) PART VALIDATION:
- SHORTING BAR PER SAE/USCAR-2 REV 4 TEMP CLASS 1 (-40°C +85°C)  
IN-LINE PER SAE/USCAR-2 REV 4 TEMP CLASS 3 (-40°C +125°C)
  - IN-LINE PER SAE/USCAR-20 REV 2

[illegible]



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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