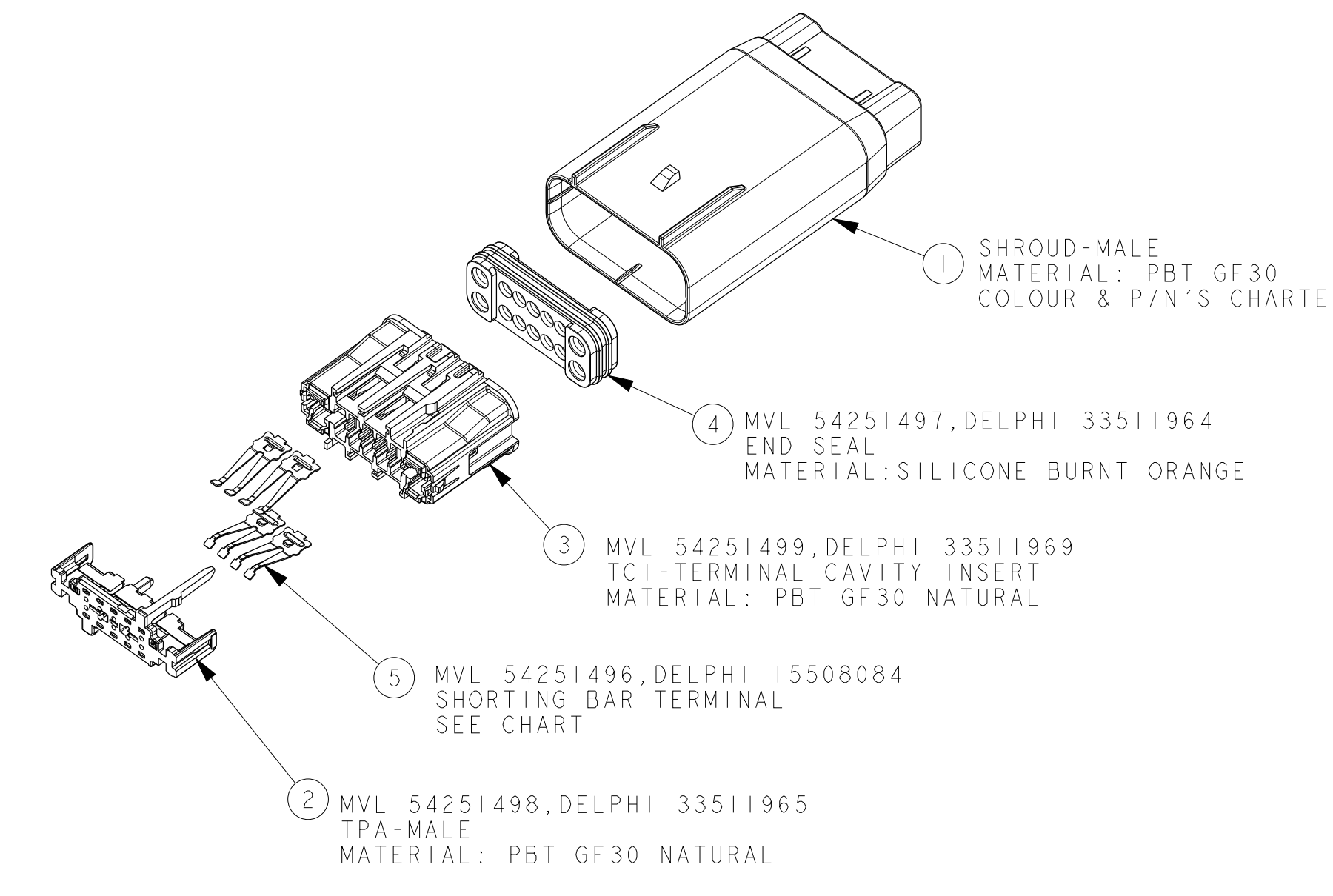


	23				22		CLIP SLOT TYPE	21		20		19		18		17		16		15		14																																							
	ASSEMBLY PART NUMBERS				KEY TYPE	COLOR		COMPONENTS				Plugged (X) Seal Positions								Circuit Totals				Mates With Assembly (Reference only)																																					
								HOUSING		SHORTING 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																													
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	54251403	D	33500168	01	D	GREEN	54251457	33503646	54251402																								33500218	54251402N	33500363																										
	54251404	D	33500169	01	A	BLACK	54251458	33503647	54251403																								33500168	54251403N	33510988																										
	54251405	D	33500170	01	B	GREY	54251459	33503648	54251400																								13878050	54251400N	33500361																										
Q	54251406	D	33500171	01	C	BROWN	2	54251460	33503649																																																				
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	54251436	D	13694023	01	G	YELLOW		54251440	33503630																									54251404	13977360	54251404N	33500364																								
	54251437	D	33510947	01	H	YELLOW	54251441	33503631	54251405																									33500221	54251405N	33510989																									
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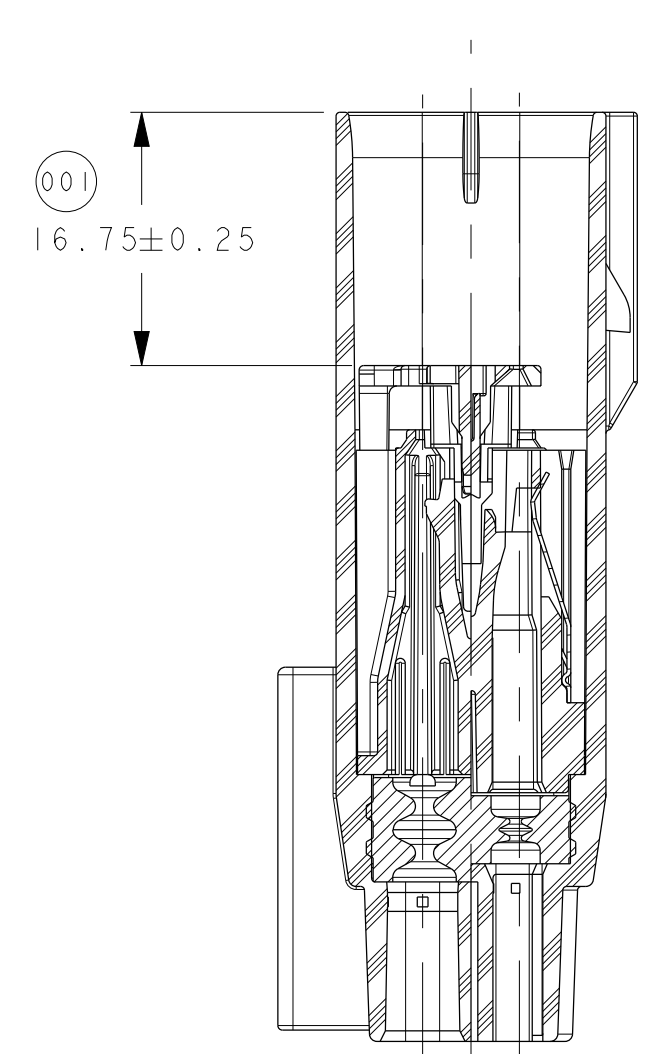
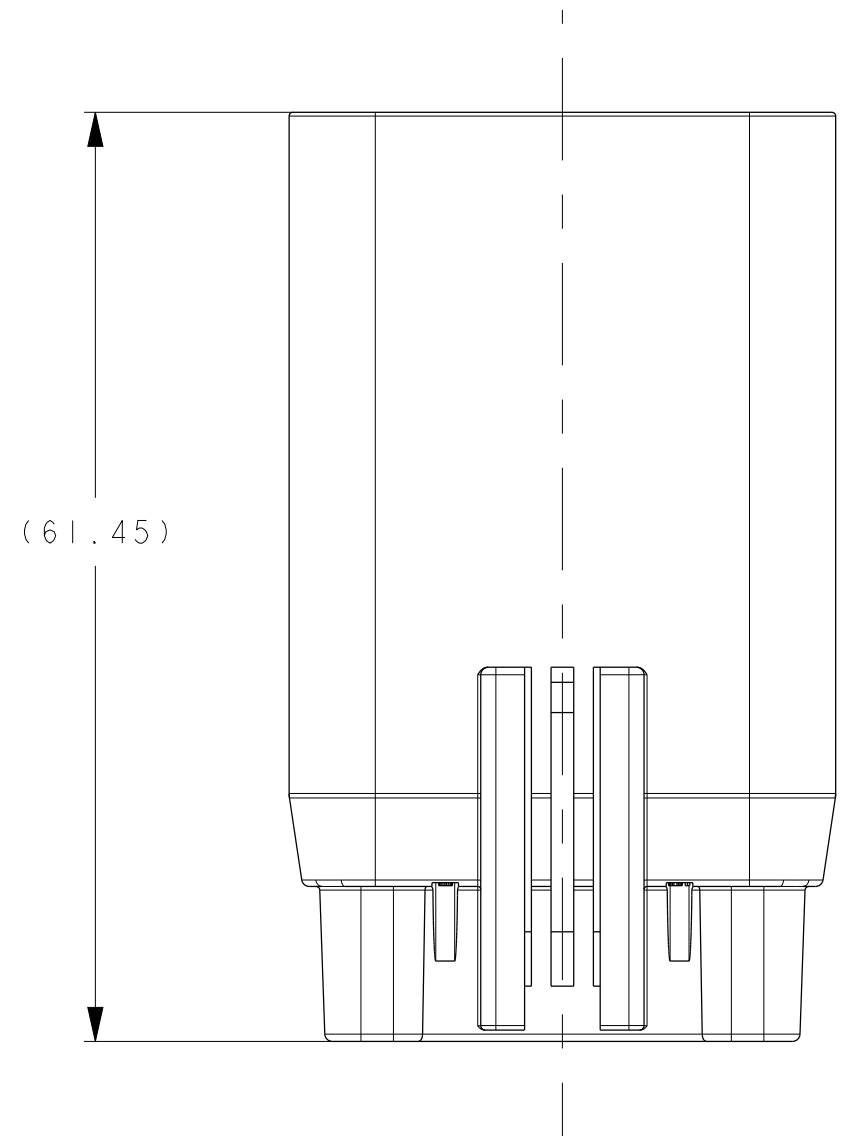
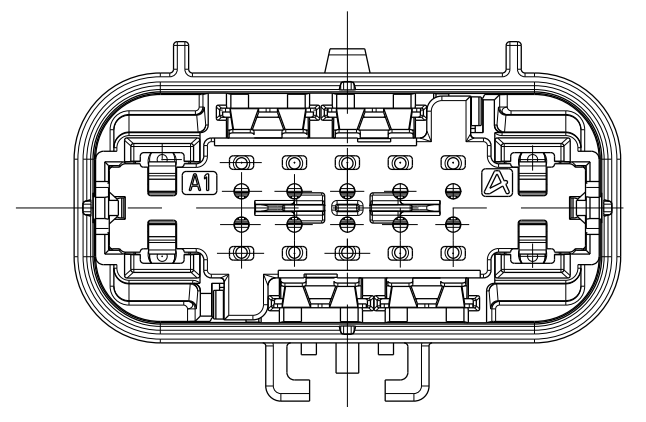
ACTUAL SIZE VIEWS

NOTE: ONE EACH OF FOLLOWING REQUIRED

② TPA MVL 54251498, DELPHI 33511965

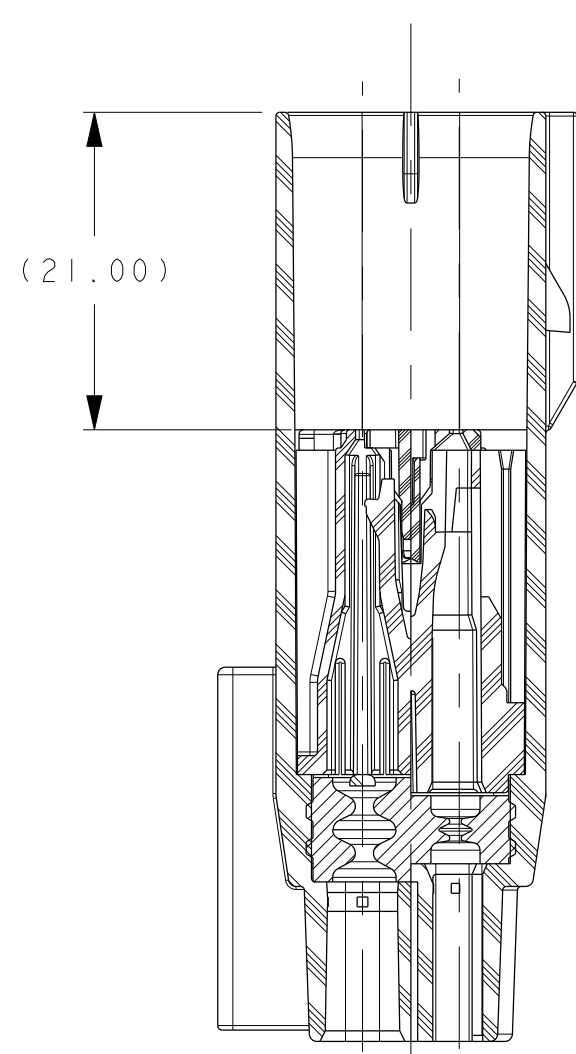
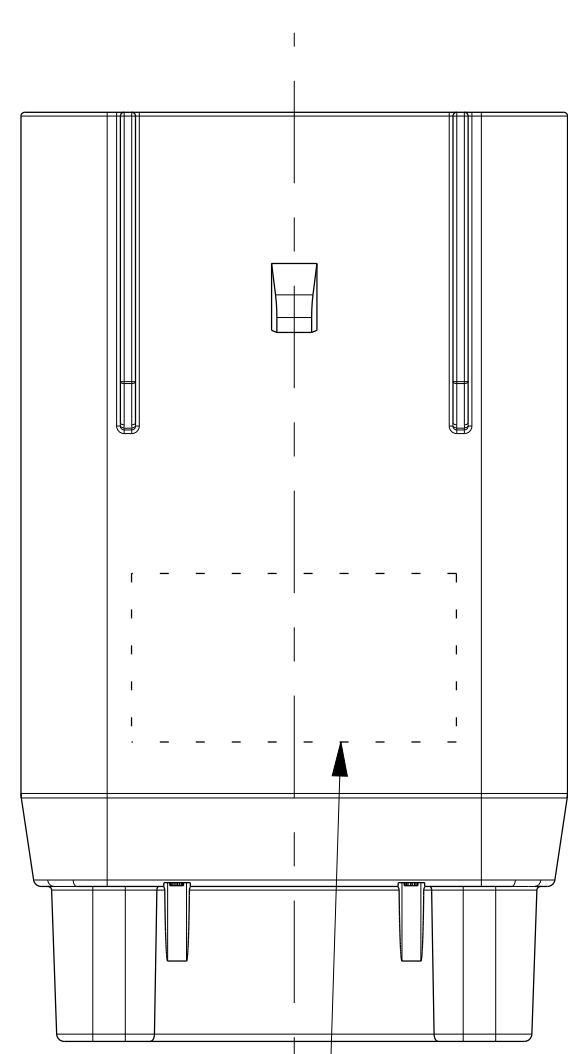
③ TCI MVL 54251499, DELPHI 33511969

④ END SEAL MVL 54251497, DELPHI 33511964



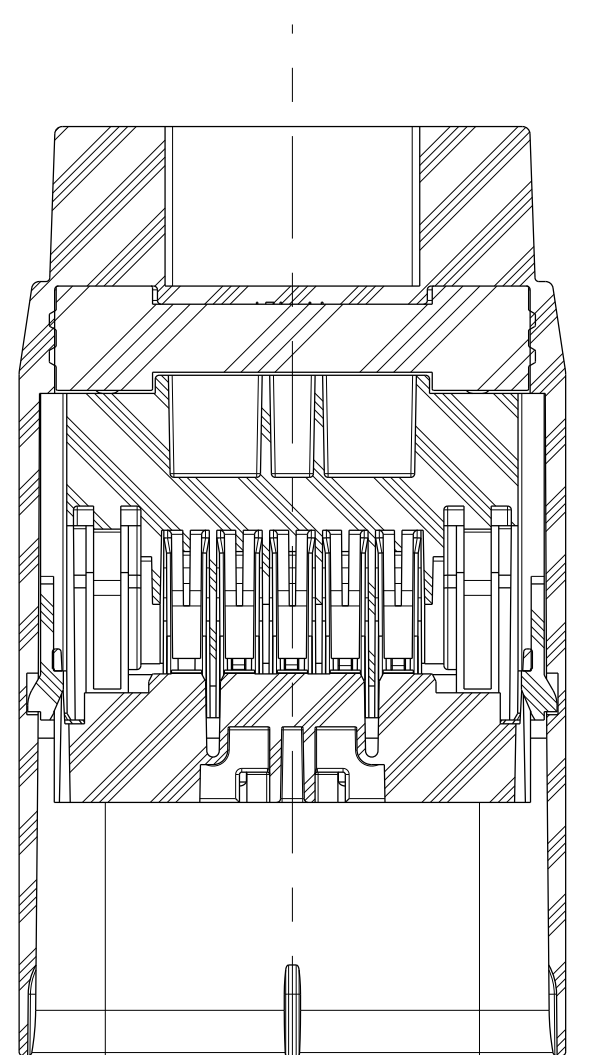
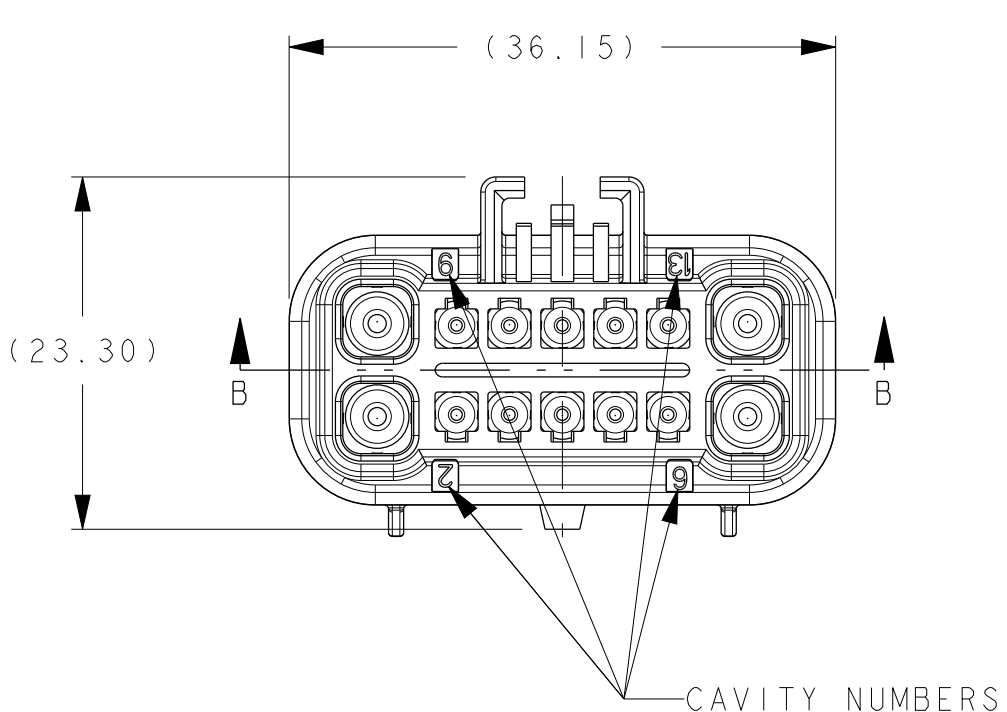
SECTION A - A

TPA IN PRE-LOCK POSITION

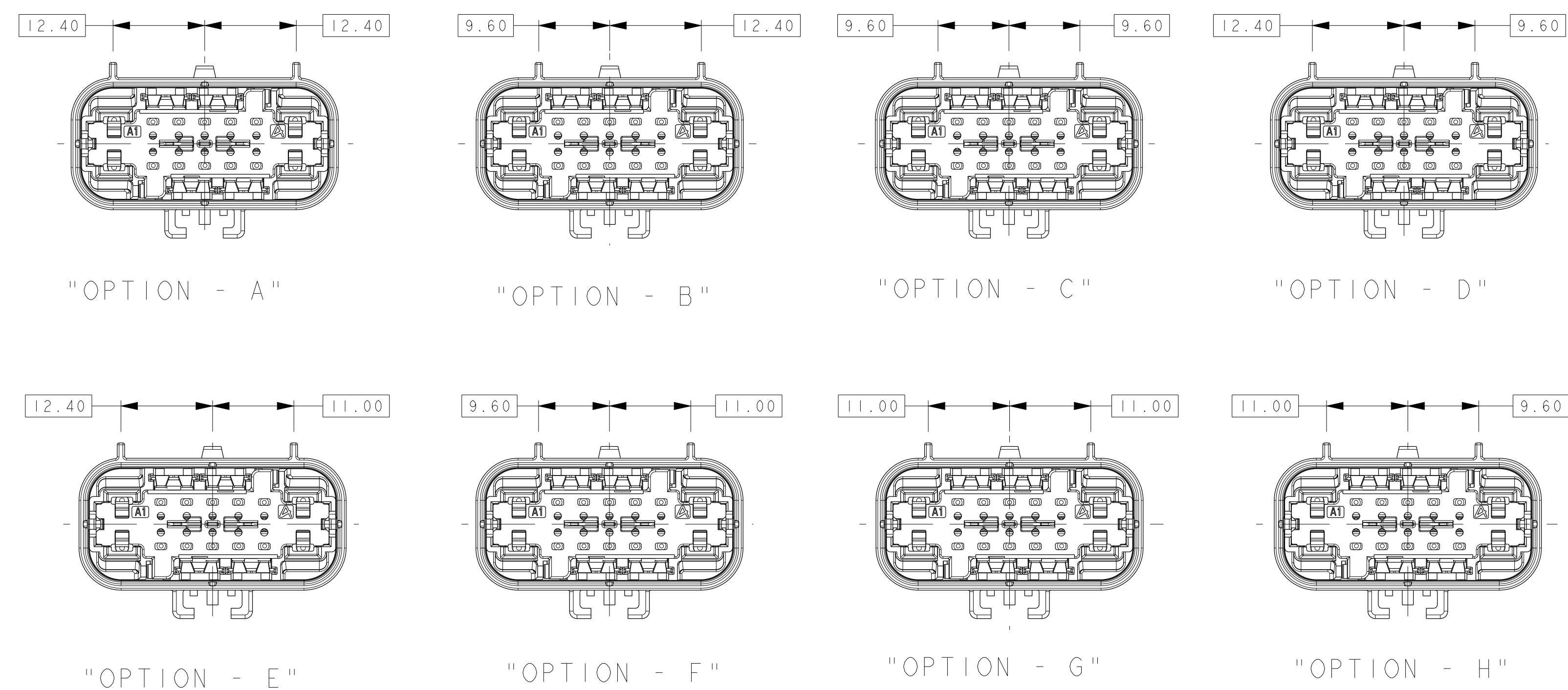


SECTION A-A
SCALE 2.000

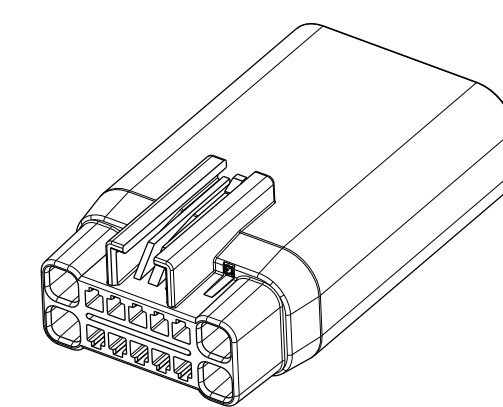
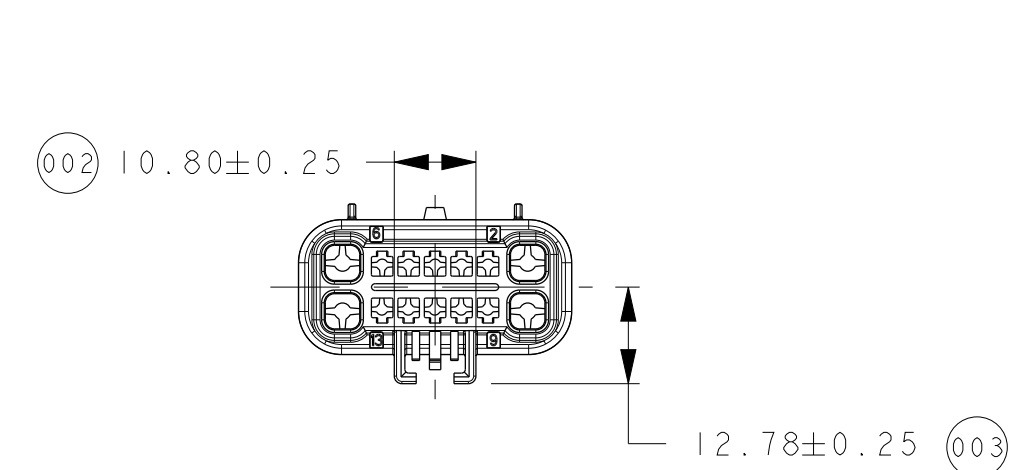
TPA IN FINAL POSITION



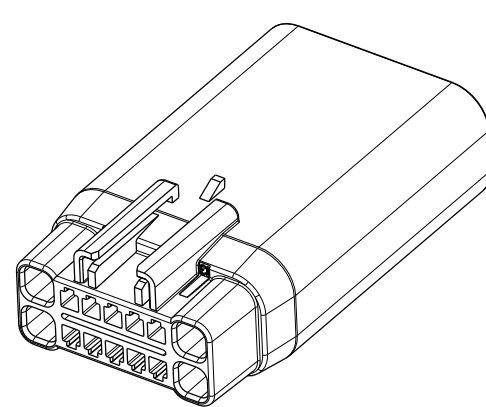
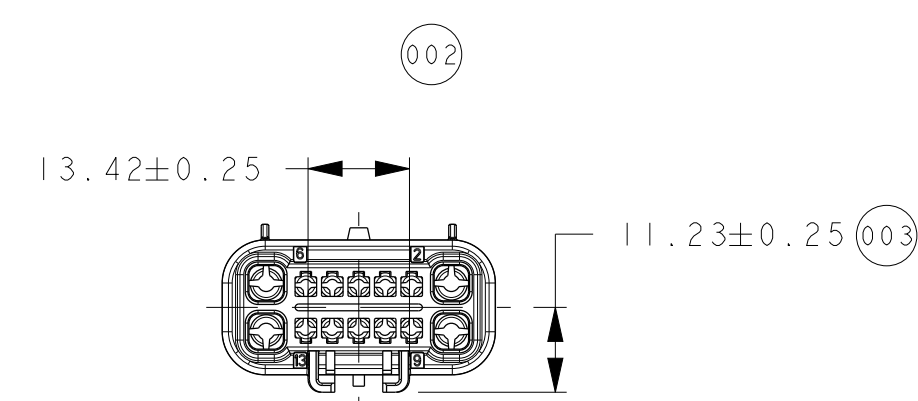
SECTION B-B



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	15502060	APEX 150 TERMINAL	GOLD	16,18
54002003	15502062	APEX 150 TERMINAL	GOLD	20,22
54001629	15502061	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 (FOR TYPE 1 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 TYPES:
 - APEX 150 TERMINALS:
 - SIZE: 22 GAGE - 16 GAGE - 1.50mm MIN O.D. TO 2.41mm MAX O.D.
 - TYPE: XL (MLI23-A / MS-8288)
 - ALTERNATELY:
 - SIZE: 0.75mm² TO 1.5mm² / 1.70mm MIN O.D. TO 2.40mm MAX O.D.
 - TYPE: FLRXZ (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: XL (MLI23-A / MS-8288)
 - ALTERNATELY:
 - SIZE: 1.0mm² TO 2.5mm² / 1.90mm MIN O.D. TO 3.00mm MAX O.D.
 - TYPE: FLRXZ (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 SPEC 3. SEE MVL DRAWINGS J54011 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 PERMISSIBLE TO FORFOM 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 I (-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]

Mouser Electronics

Authorized Distributor

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