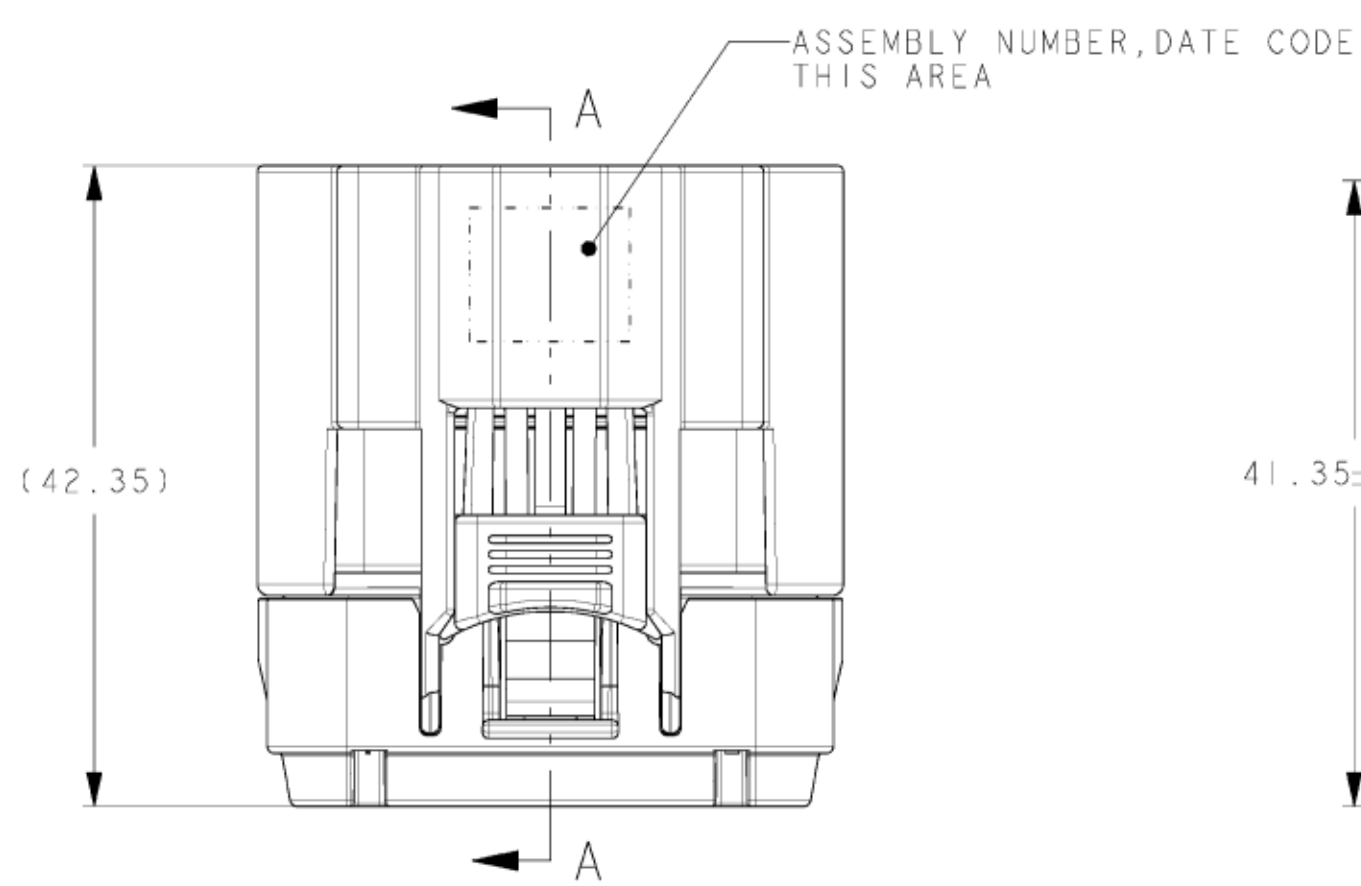
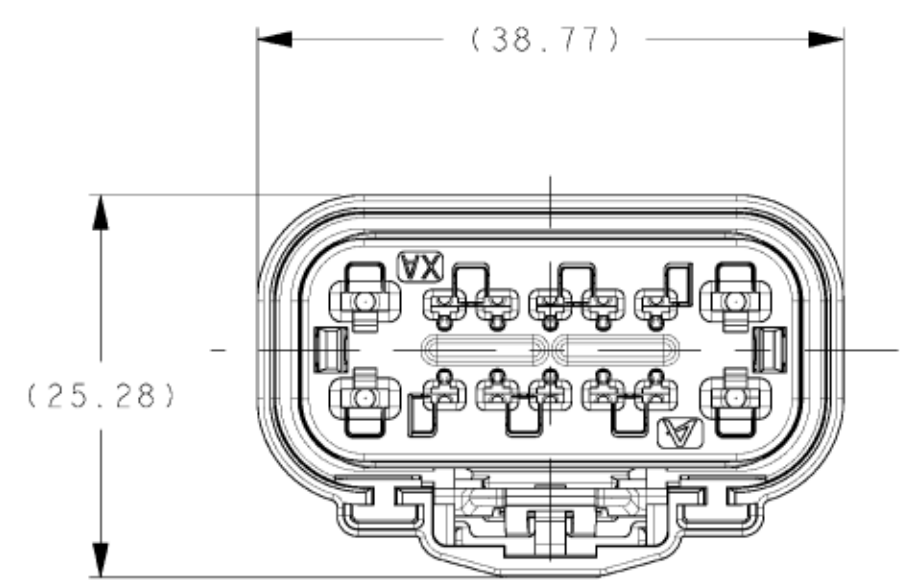
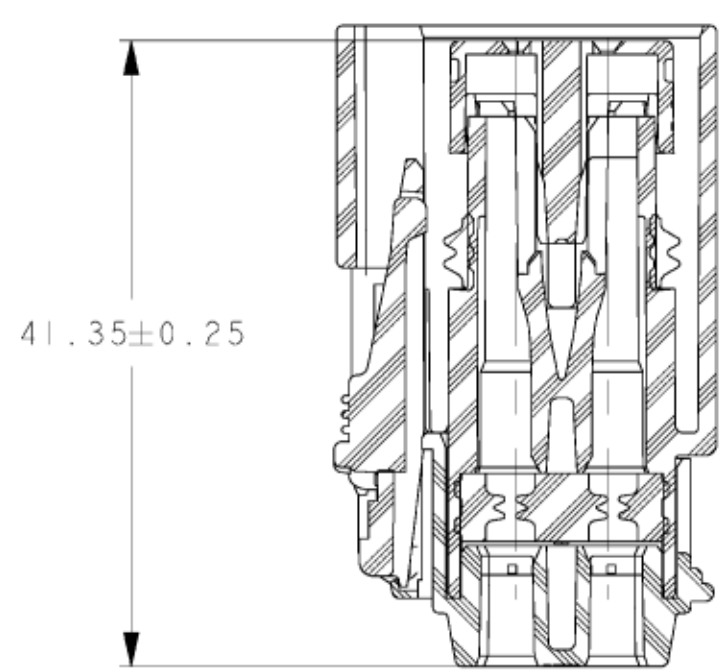


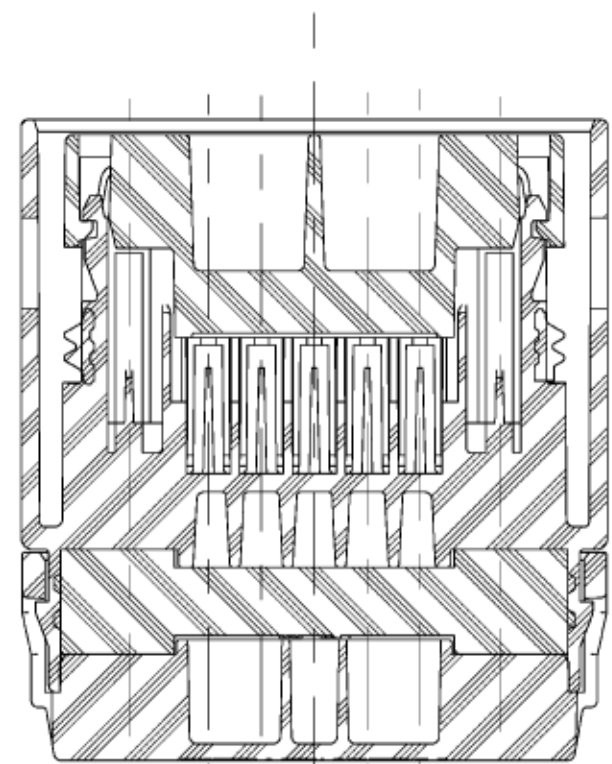
	ASSEMBLY NUMBERS				REV LEVEL		KEY OPTIONS	COLOR	COMPONENTS						Plugged (X) Seal Positions														OPEN CIRCUITS			MATING P/N REFERENCE					
	WITH CPA		W/O CPA		MVL	DELPHI					HOUSING		TPA		RETAINER		2,8 ---1,5--- -2,8--- ---1,5--- 2,8														1,5	2,8	TOTAL	MVL	DELPHI		
	MVL	DELPHI	MVL	DELPHI							MVL	DELPHI	MVL	DELPHI	MVL	DELPHI	1	2	3	4	5	6	7	8	9	10	11	12	13	14							
R	55251400	13878050	55251400N	33500361	F	02	A	BLACK	55251488	33511972	-	33393604																	-	-							
	55251401	15503430	55251401N	33500362	F	01	B	GREY	55251489	33503671																			-	-							
	55251402	33512096	55251402N	33500363	F	01	C	BROWN	55251490	33503672	55251498	33511974																	-	-							
	55251403	335000219	55251403N	33500364	F	01	D	GREEN	55251491	33503673																			-	-							
Q	55251404	13977360	55251404N	33500365	N	01	E	YELLOW	55251492	33503674																			-	-							
	55251405	335000220	55251405N	33500366	N	01	F	YELLOW	55251493	33503675																			-	-							
	55251406	335000221	55251406N	33500367	N	01	G	YELLOW	55251494	33503676																			-	-							
	55251407	335000222	55251407N	33500368	N	01	H	YELLOW	55251495	33503677																			-	-							
P	55251408	335000223	55251408N	33500369	F	01	A	BLACK	55251488	33511972																			-	-							
	55251409	335000224	55251409N	33500370	F	01	B	GREY	55251489	33503671																			-	-							
	55251410	335000225	55251410N	33500371	F	01	A	BLACK	55251488	33511972																			-	-							
	55251411	335000226	55251411N	33500372	F	01	B	GREY	55251489	33503671																			-	-							
O	55251412	335000227	55251412N	33500373	F	01	A	BLACK	55251488	33511972																			-	-							
	55251413	335000228	55251413N	33500374	F	01	B	GREY	55251489	33503671																			-	-							
	55251414	335000229	55251414N	33500375	F	01	A	BLACK	55251488	33511972																			-	-							
	55251415	335000230	55251415N	33500376	F	01	B	GREY	55251489	33503671																			-	-							
N	55251416	335000231	55251416N	33500377	F	01	A	BLACK	55251488	33511972																			-	-							
	55251417	335000232	55251417N	33500378	F	01	B	GREY	55251489	33503671																			-	-							
	55251418	33511512	55251418N	33511591	F	01	A	BLACK	55251488	33511972																			-	-							
	55251419	33511513	55251419N	33511592	F	01	B	GREY	55251489	33503671	55251498	33511974																	-	-							
M	55261400	33511514	55261400N	33511593	F	01																							54261400	33511657							
	55261401	33511515	55261401N	33511594	F	01																							54261401	33511658							
	55261402	33511516	55261402N	33511595	F	01	A	BLACK	55251488	33511972																			54261402	33511659							
	55261403	33511517	55261403N	33511596	F	01																							54261403	33511660							
L	55261404	33511518	55261404N	33511597	F	01																							54261404	33511661							
	55261405	33511519	55261405N	33511598	F	01																							54261405	33511662							
	55261406	33511520	55261406N	33511599	F	01																							54261406	33511663							
	55261407	33511521	55261407N	33511600	F	01																							54261407	33511664							
K	55261408	33511522	55261408N	33511601	F	01	B	GREY	55251489	33503671																				54261408	33511665						
	55261409	33511523	55261409N	33511602	F	01																								54261409	33511666						
	55261410	33511524	55261410N	33511603	F	01																							54261410	33511667							
	55261411	33511525	-	-																									54261411	33511668							
J	55261412	33511526	-	-																										54261412	33511669						
	55261413	33511527	-	-																										54261413	33511670						
	55261414	33511528	-	-																										54261414	33511671						
	55261415	33511529	-	-																										54261415	33511672						
I	55261416	33511530	-	-																										-	-						
	55261417	33511531	-	-																										-	-						
	55261418	33511532	-	-																										-	-						
	55261419	33511533	-	-																										-	-						
H	55261420	33511534	-	-																										-	-						
	55261421	33511535	-	-																										-	-						
	55261422	33511536	55261422N	33502054	N	01																								-	-						
	55261423	33511537	55261423N	33502055	N	01																								-	-						
G	55261424	33511538	55261424N	33511604	H	01																								-	-						
	55261425	33511539	55261425N	33511605	H	01																								-	-						
	55261426	33511540	55261426N	33511606	H	01																								-	-						
	55261427	33511541	55261427N	33511607	H	01																								-	-						
F	55261428	33511542	55261428N	33511608	H	01																								-	-						
	55261429	33511543	55261429N	33511609	H	01																								-	-						
	55261430	33511544	55261430N	33511610	H	01																								-	-						
	55261431	33511545	55261431N	33511611	J	01																								-	-						
E	55261432	33511546	55261432N	33511612	J	01																								-	-						
	55261433	33511547	55261433N	33511613	J	01																								-	-						
	55261434	33511548	55261434N	33511614	J	01																								-	-						
	55261435	33511549	55261435N	33511615	K	01																															



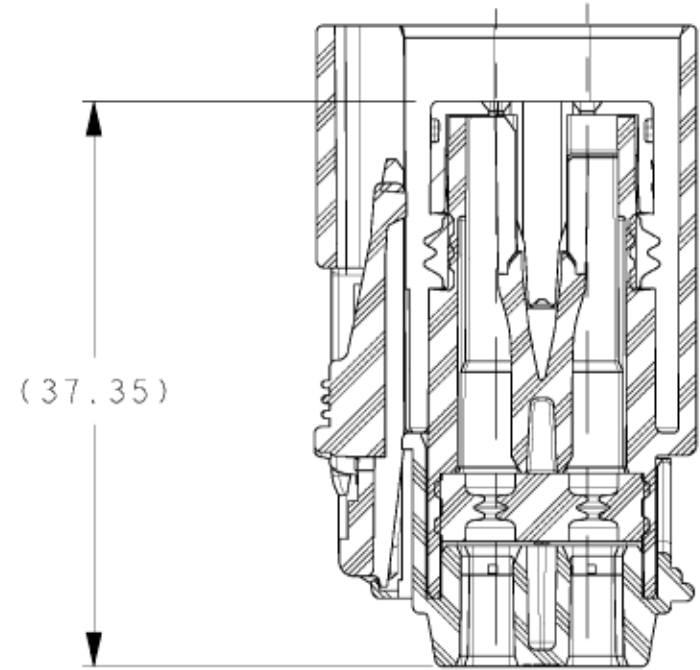
SCALE 2:1



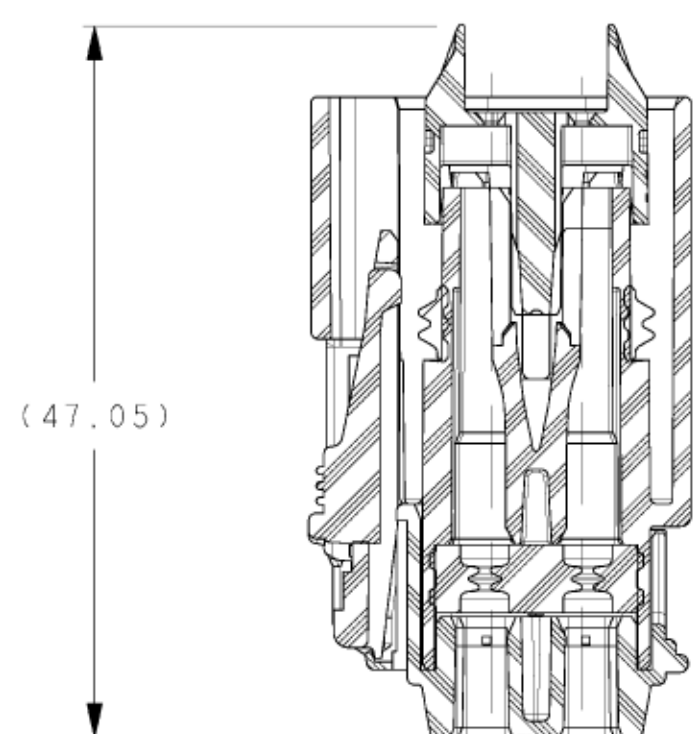
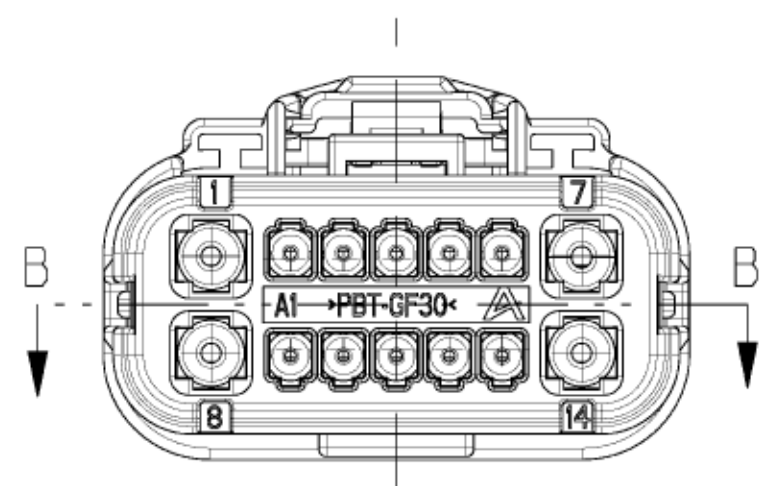
SECTION A-A
CPA & TPA IN PRE-ASSEMBLED POSITION



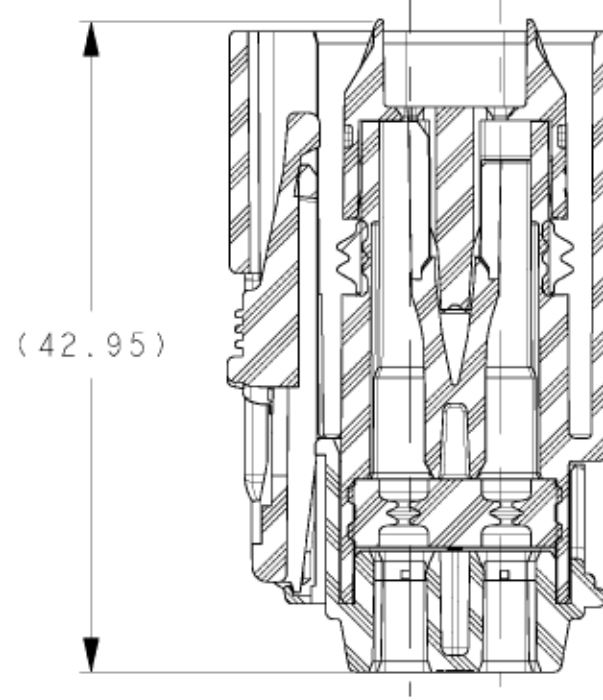
SECTION B-B



SECTION
CPA & TPA IN FINAL POSITION



SECTION A-A
TPA IN PRE-LOCK POSITION



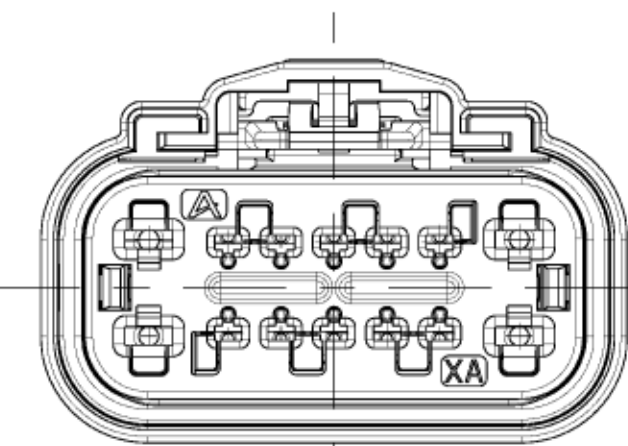
SECTION A-A
TPA IN FINAL LOCK POSITION

APPLICABLE COMPONENTS				
SUPPLIER		ITEM DESCRIPTION	PLATING OR COLOR	GRIP SIZE
MVL	DELPHI			
54001625	13613157	APEX 150 TERMINAL	TIN	16,18
54002000	13624983	APEX 150 TERMINAL	TIN	20,22
54001627	13779834	APEX 150 TERMINAL	GOLD	16,18
54002002	13725913	APEX 150 TERMINAL	GOLD	20,22
54001208	15422738	APEX 2.8 TERMINAL	TIN	12
54001400	10762803	APEX 2.8 TERMINAL	TIN	14,16
54001800	10757690	APEX 2.8 TERMINAL	TIN	18
54001402	10762770	APEX 2.8 TERMINAL	TIN	14
54001802	10762772	APEX 2.8 TERMINAL	TIN	18
54240002	13770939	APEX 150 2.8mm SEAL PLUG - FEMALE	NATURAL	-
54241629	13613164	APEX 150 UNIVERSAL SEAL PLUG	NATURAL	-
F379410	13979933	APEX 2.8 TERMINAL	TIN	14,16
F176410	15543466	APEX 2.8 TERMINAL	TIN	18,20

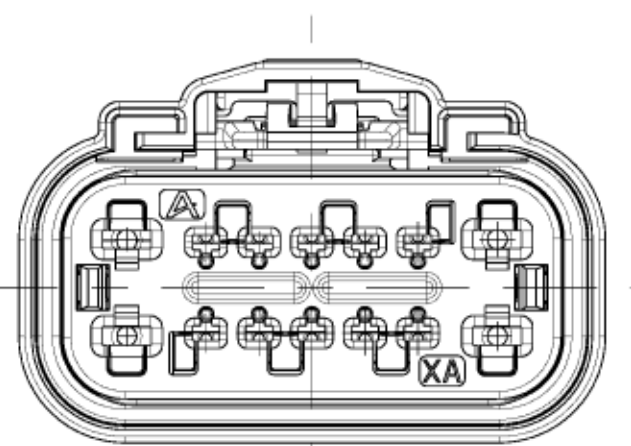
COMMON PART NUMBER CHART ONE EACH INCLUDED IN ASSEMBLY				
ITEM	PART NUMBERS		DESCRIPTION	MATERIAL
	MVL	DELPHI		
5	54241687	33503289	RING SEAL	SILICONE
6	54251497	33511964	MATT SEAL	SILICONE

NOTES:

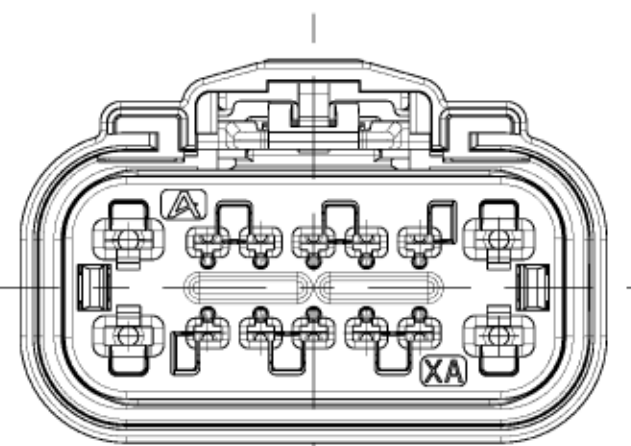
- TEMPERATURE CLASS: 3 (-40° C to +125° C)
- SEE CHART FOR TEST METHOD
SEE CHART
- CONNECTOR MAY BE USED WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES:
 - APEX 150 TERMINALS:
 - SIZE : 22AWG TO 18AWG (Ø 1.50 TO Ø 2.41 INSULATION O.D.)
 - TYPE : TXL (MIL123-A / MS-8298)
 - ALTERNATELY :
 - SIZE : 0.75mm² TO 1.0mm² (Ø 1.70 TO Ø 2.40 INSULATION O.D.)
 - TYPE : FLRZX (125° C PE-X) or FLRYW (125° C PVC)
 - (STRUCTURE & PROPERTIES PER 1506722)
 - APEX 2.8 TERMINALS:
 - SIZE : 18AWG TO 12AWG (Ø 1.90 TO Ø 3.35 INSULATION O.D.)
 - TYPE : TXL (MIL123-A / MS-8298)
 - ALTERNATELY :
 - SIZE : 1.00mm² TO 2.50mm² (Ø 1.90 TO Ø 3.00 INSULATION O.D.)
 - TYPE : FLRZX (125° C PE-X) or FLRYW (125° C PVC)
 - (STRUCTURE & PROPERTIES PER 1506722)
- CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
 - MVL APEX150 AND APEX 2.8 WITH WIRE SIZES DEFINED IN NOTE 3
 - SEE MVL DRAWINGS J54009-CUST AND C15004-CUST FOR SPECIFIC PART NUMBERS AND CRIMPING REQUIREMENTS.
 - CONTACT MVL ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND/OR TYPES
- ANNUAL QUALITY REQUIREMENTS:
 - IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER MVL SPECIFICATION #ACA-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF 05-9000 SECTION 2 AND SAE/USCAR-2, REV.4 FOR TERMINALS TO CONNECTOR AND TPA TO CONNECTOR ONLY.
- PART VALIDATION:
 - SHORTING BAR PER SAE/USCAR-2 REV.4 TEMP CLASS 1, (-40° C +125° C)
 - IN-LINE PER SAE/USCAR-2 REV.4 TEMP CLASS 3 (-40° C +125° C)
 - IN-LINE PER SAE/USCAR-20 REV.2



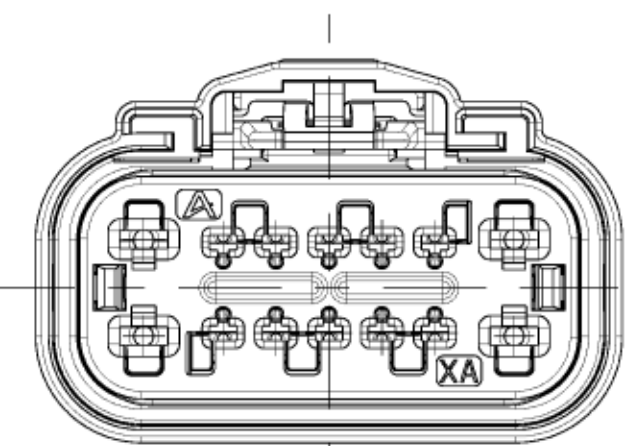
"OPTION - A"



"OPTION - B"

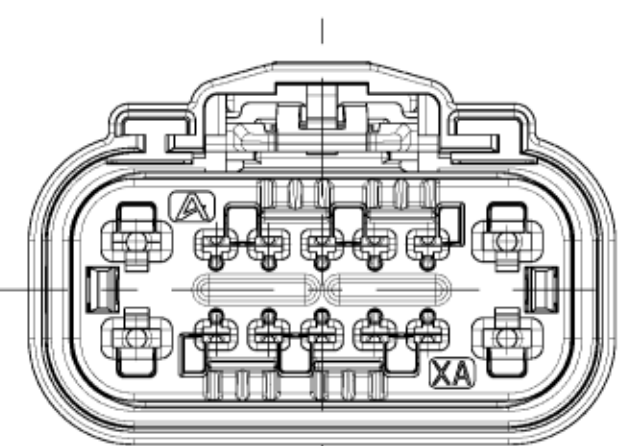


"OPTION - C"

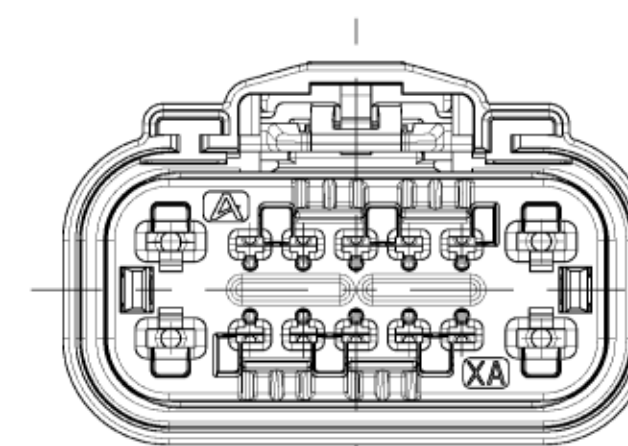


"OPTION - D"

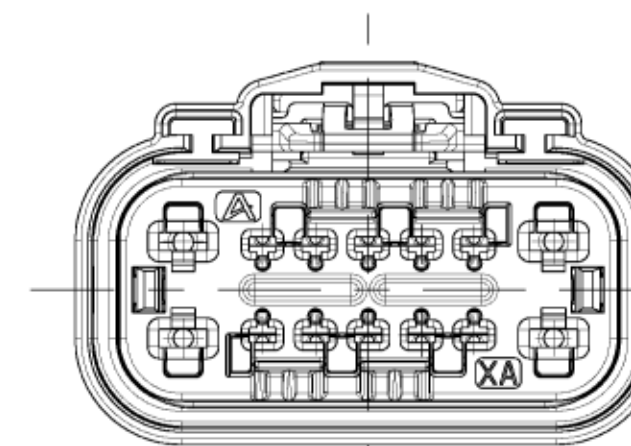
FEMALE ASSEMBLY WITHOUT SHORTING BAR ACTUATING CAM



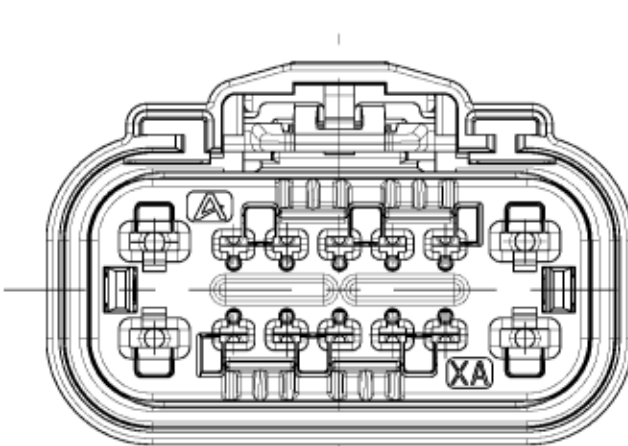
"OPTION - E"



"OPTION - F"



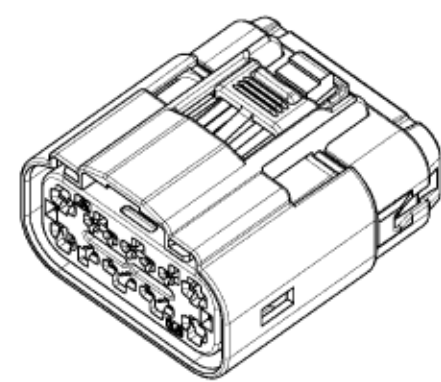
"OPTION - G"



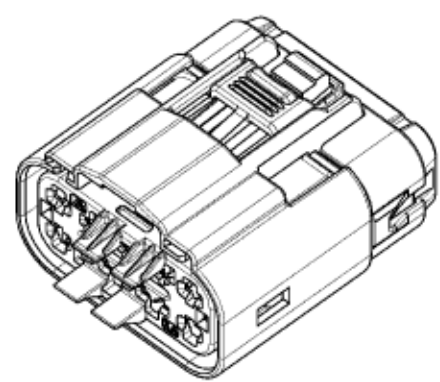
"OPTION - H"

FEMALE ASSEMBLY WITH SHORTING BAR ACTUATING CAM ON TPA

POLARIZATION OPTIONS



VIEW WITHOUT SHORTING
BAR ACTUATING CAM



VIEW WITH SHORTING BAR CAM

ISO-VIEWS, FULL SIZE

SEE SHEET #1 FOR REVISION RECORD									
REV.	DATE	DESCRIPTION	BY	CHKD.	APP'D.	DATE	DESCRIPTION	BY	CHKD.
1	12/12/02	INITIAL RELEASE	AF	AF	AF	12/12/02	INITIAL RELEASE	AF	AF
2	12/12/02	REVISION 1	AF	AF	AF	12/12/02	REVISION 1	AF	AF
3	12/12/02	REVISION 2	AF	AF	AF	12/12/02	REVISION 2	AF	AF
4	12/12/02	REVISION 3	AF	AF	AF	12/12/02	REVISION 3	AF	AF
5	12/12/02	REVISION 4	AF	AF	AF	12/12/02	REVISION 4	AF	AF
6	12/12/02	REVISION 5	AF	AF	AF	12/12/02	REVISION 5	AF	AF
7	12/12/02	REVISION 6	AF	AF	AF	12/12/02	REVISION 6	AF	AF
8	12/12/02	REVISION 7	AF	AF	AF	12/12/02	REVISION 7	AF	AF
9	12/12/02	REVISION 8	AF	AF	AF	12/12/02	REVISION 8	AF	AF
10	12/12/02	REVISION 9	AF	AF	AF	12/12/02	REVISION 9	AF	AF
11	12/12/02	REVISION 10	AF	AF	AF	12/12/02	REVISION 10	AF	AF
12	12/12/02	REVISION 11	AF	AF	AF	12/12/02	REVISION 11	AF	AF
13	12/12/02	REVISION 12	AF	AF	AF	12/12/02	REVISION 12	AF	AF
14	12/12/02	REVISION 13	AF	AF	AF	12/12/02	REVISION 13	AF	AF
15	12/12/02	REVISION 14	AF	AF	AF	12/12/02	REVISION 14	AF	AF
16	12/12/02	REVISION 15	AF	AF	AF	12/12/02	REVISION 15	AF	AF
17	12/12/02	REVISION 16	AF	AF	AF	12/12/02	REVISION 16	AF	AF
18	12/12/02	REVISION 17	AF	AF	AF	12/12/02	REVISION 17	AF	AF
19	12/12/02	REVISION 18	AF	AF	AF	12/12/02	REVISION 18	AF	AF
20	12/12/02	REVISION 19	AF	AF	AF	12/12/02	REVISION 19	AF	AF
21	12/12/02	REVISION 20	AF	AF	AF	12/12/02	REVISION 20	AF	AF
22	12/12/02	REVISION 21	AF	AF	AF	12/12/02	REVISION 21	AF	AF
23	12/12/02	REVISION 22	AF	AF	AF	12/12/02	REVISION 22	AF	AF

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