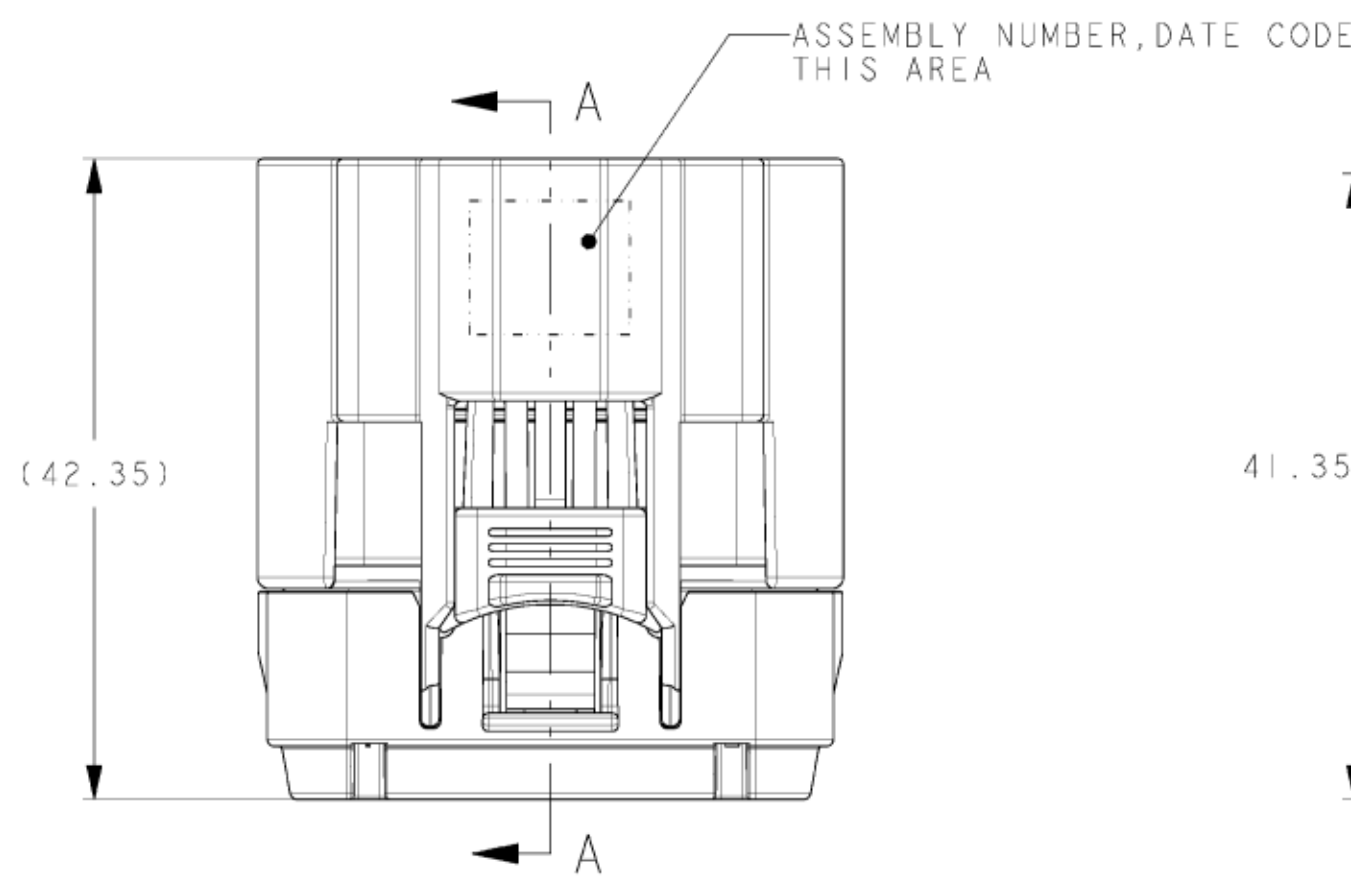
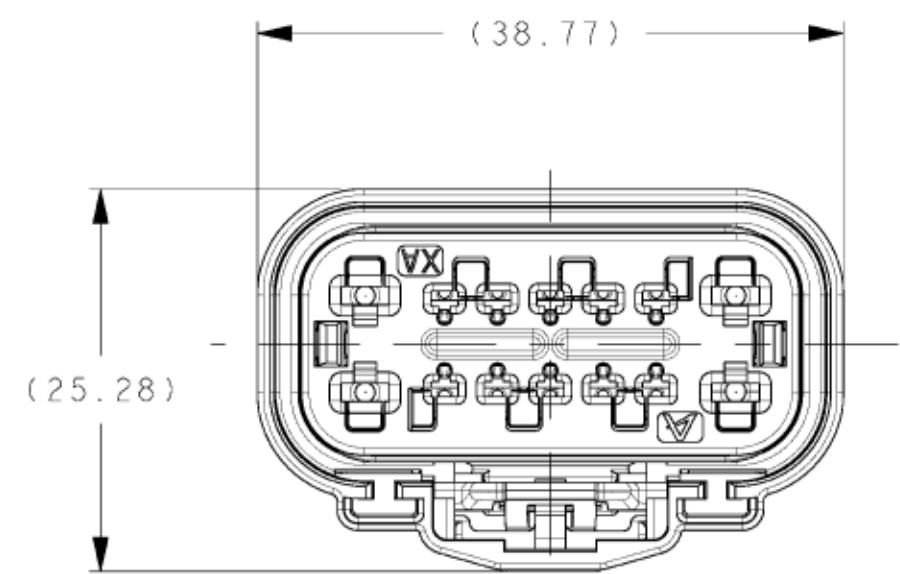
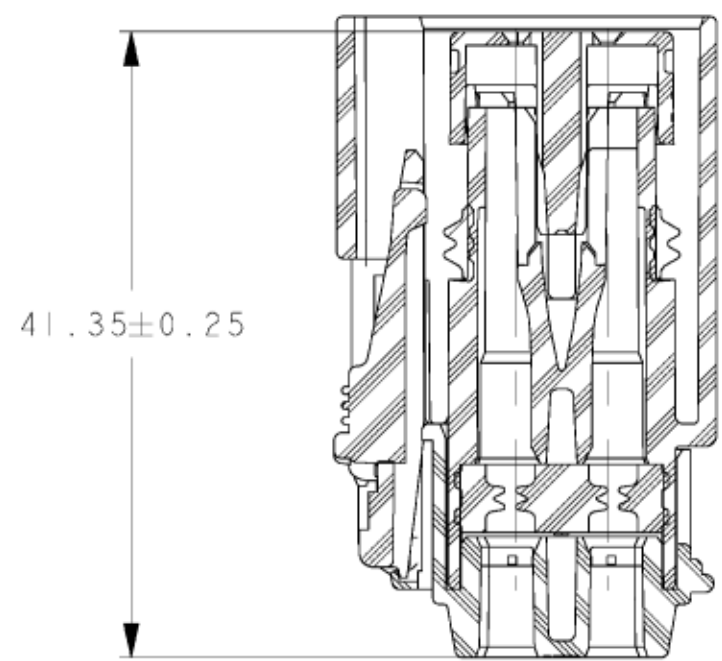


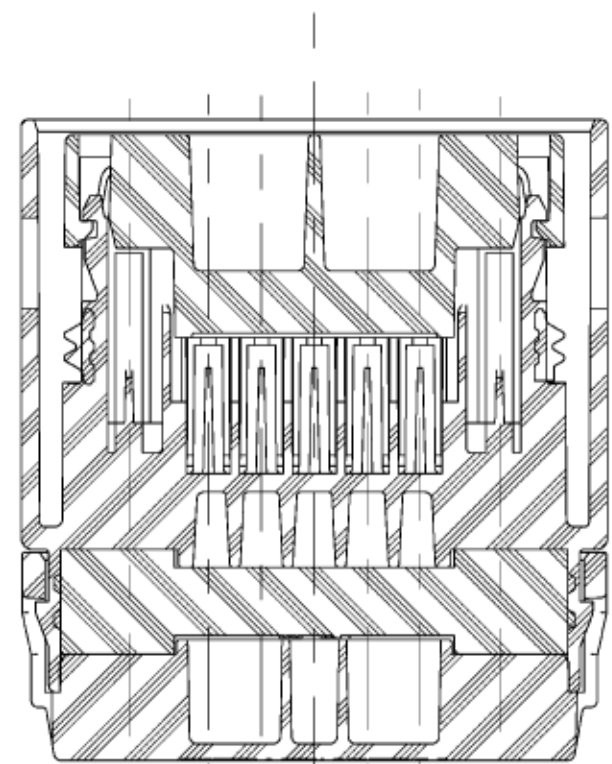
	ASSEMBLY NUMBERS				REV LEVEL		KEY OPTIONS	COLOR	COMPONENTS						Plugged (X) Seal Positions														OPEN CIRCUITS			MATING P/N REFERENCE				
	WITH CPA		W/O CPA		MVL	DELPHI			HOUSING		TPA		RETAINER		2,8	---1,5--- --2,8--- --1,5--- 2,8																				
	MVL	DELPHI	MVL	DELPHI					MVL	DELPHI	MVL	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	55251499	33511974																								
	55251403	33500219	55251403N	33500364	F	01	D	GREEN	55251491	33503673																										
	55251404	13977360	55251404N	33500365	N	01	E	YELLOW	55251492	33503674																										
	55251405	33500220	55251405N	33500366	N	01	F	YELLOW	55251493	33503675																										
	55251406	33500221	55251406N	33500367	N	01	G	YELLOW	55251494	33503676																										
	55251407	33500222	55251407N	33500368	N	01	H	YELLOW	55251495	33503677																										
	55251408	33500223	55251408N	33500369	F	01	A	BLACK	55251498	33511972																										
	55251409	33500224	55251409N	33500370	F	01	B	GREY	55251499	33503671																										
	55251410	33500225	55251410N	33500371	F	01	A	BLACK	55251498	33511972																										
	55251411	33500226	55251411N	33500372	F	01	B	GREY	55251499	33503671																										
	55251412	33500227	55251412N	33500373	F	01	A	BLACK	55251498	33511972																										
	55251413	33500228	55251413N	33500374	F	01	B	GREY	55251499	33503671																										
	55251414	33500229	55251414N	33500375	F	01	A	BLACK	55251498	33511972																										
	55251415	33500230	55251415N	33500376	F	01	B	GREY	55251499	33503671																										
	55251416	33500231	55251416N	33500377	F	01	A	BLACK	55251498	33511972																										
	55251417	33500232	55251417N	33500378	F	01	B	GREY	55251499	33503671																										
	55251418	33511512	55251418N	33511591	F	01	A	BLACK	55251498	33511972																										
	55251419	33511513	55251419N	33511592	F	01	B	GREY	55251499	33503671	55251499	33511974																								
	55261400	33511514	55261400N	33511593	F	01																														
	55261401	33511515	55261401N	33511594	F	01																														
	55261402	33511516	55261402N	33511595	F	01																														
	55261403	33511517	55261403N	33511596	F	01																														
	55261404	33511518	55261404N	33511597	F	01																														
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	55261412	33511526	-	-																																
	55261413	33511527	-	-																																
	55261414	33511528	-	-																																
	55261415	33511529	-	-																																
	55261416	33511530	-	-																																
	55261417	33511531	-	-																																
	55261418	33511532	-	-																																
	55261419	33511533	-	-																																
	55261420	33511534	-	-																																
	55261421	33511535	-	-																																
	55261422	33511536	55261422N	33502054	N	01																														
	55261423	33511537	55261423N	33502055	N	01																														
	55261424	33511538	55261424N	33511604	H	01																														
	55261425	33511539	55261425N	33511605	H	01																														
	55261426	33511540	55261426N	33511606	H	01																														
	55261427	33511541	55261427N	33511607	H	01																														
	55261428	33511542	55261428N	33511608	H	01																														
	55261429	33511543	55261429N	33511609	H	01																														
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	55261431	33511545	5																																	



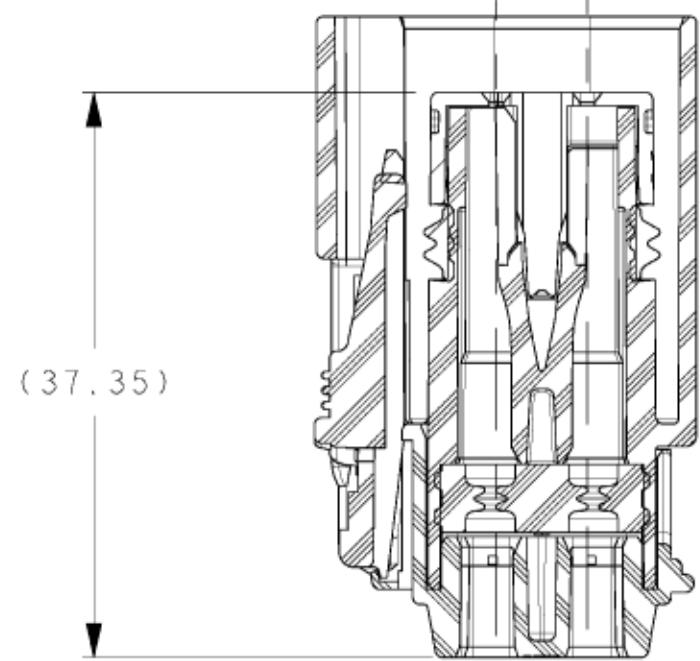
SCALE 2:1



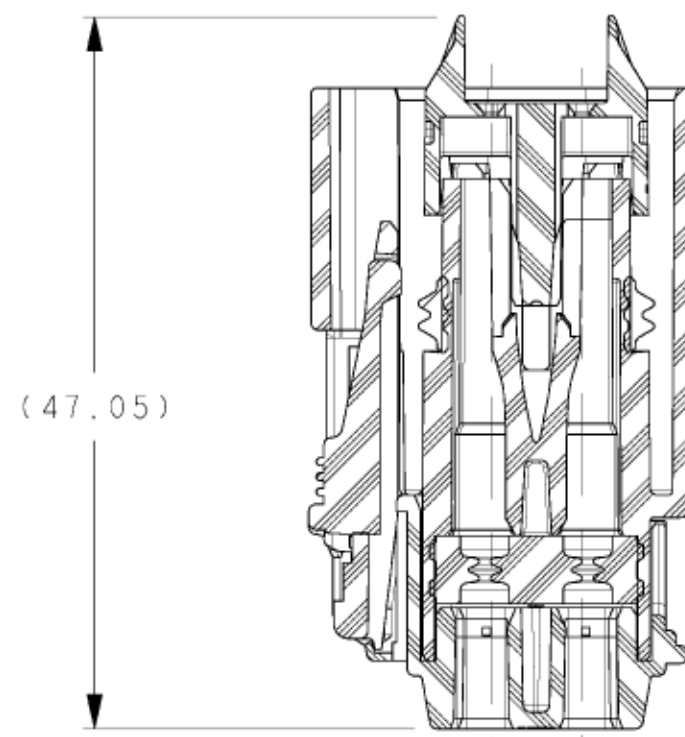
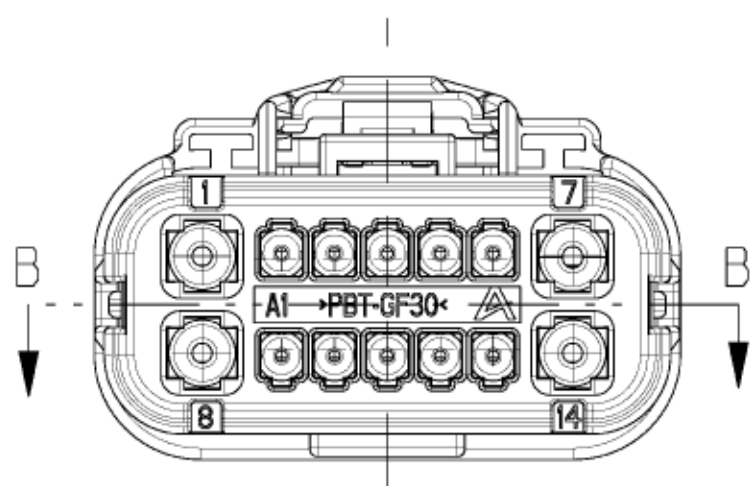
SECTION A-A
CPA & TPA IN PRE-ASSEMBLED POSITION



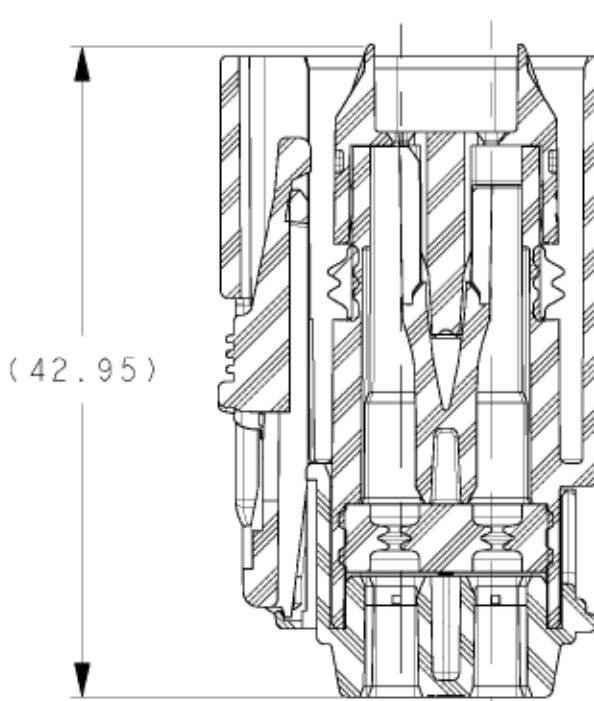
SECTION B-B



SECTION
CPA & TPA IN FINAL POSITION



SECTION A-A
TPA IN PRE-LOCK POSITION



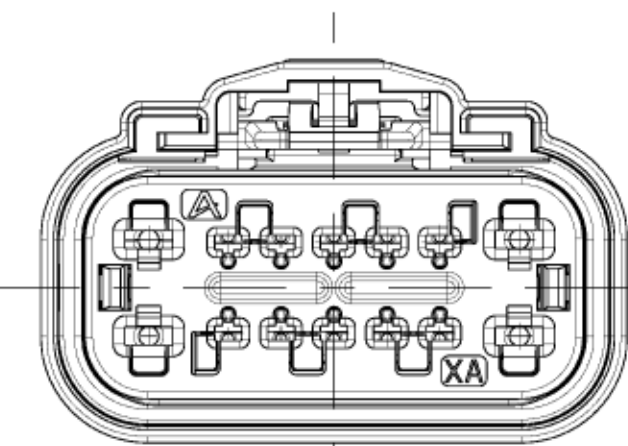
SECTION A-A
TPA IN FINAL LOCK POSITION

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

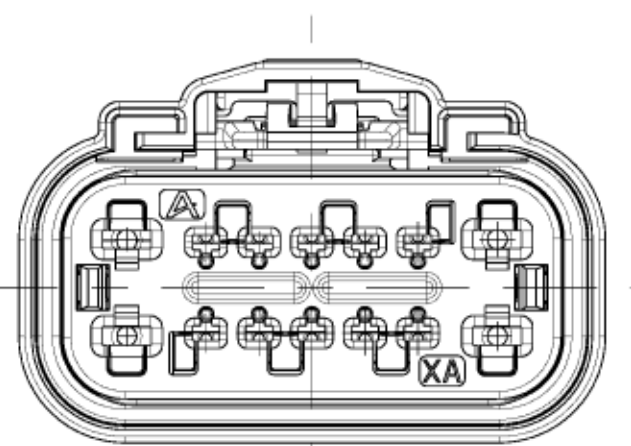
COMMON PART NUMBER CHART ONE EACH INCLUDED IN ASSEMBLY				
ITEM	PART NUMBERS		DESCRIPTION	MATERIAL
	MVL	DELPHI		
5	54241687	33503289	RING SEAL	SILICONE
6	54251497	33511964	MATT SEAL	SILICONE

NOTES:

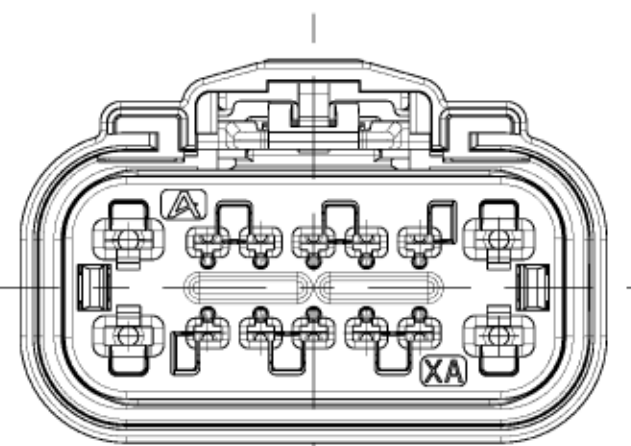
- TEMPERATURE CLASS: 3 (-40° C to +125° C)
- SEE CHART FOR TEST METHOD
SEE CHART
- CONNECTOR MAY BE USED WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES:
 - APEX 150 TERMINALS:
 - SIZE : 22AWG TO 18AWG (Ø 1.50 TO Ø 2.41 INSULATION O.D.)
 - TYPE : TXL (MIL123-A / MS-R298)
 - ALTERNATELY :
 - SIZE : 0.75mm² TO 1.0mm² (Ø 1.70 TO Ø 2.40 INSULATION O.D.)
 - TYPE : FLR2X (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-R298)
 - ALTERNATELY :
 - SIZE : 1.00mm² TO 2.50mm² (Ø 1.90 TO Ø 3.00 INSULATION O.D.)
 - TYPE : FLR2X (125° C PE-X) or FLRYW (125° C PVC)
 - (STRUCTURE & PROPERTIES PER 1506722)
- CONTACT MVL ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND/OR TYPES
- 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 COMPATIBLE NON DELPHI TERMINALS
- ANNUAL QUALITY REQUIREMENTS:
 - IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER MVL SPECIFICATION #ACA-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF QS-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



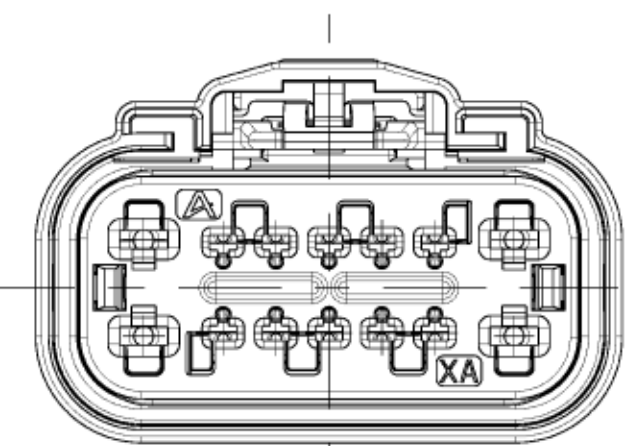
"OPTION - A"



"OPTION - B"

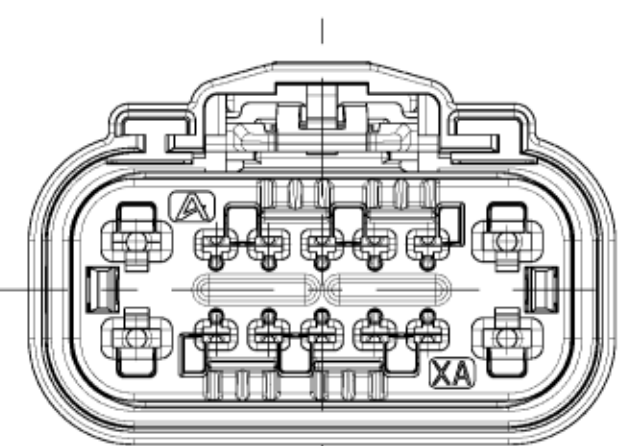


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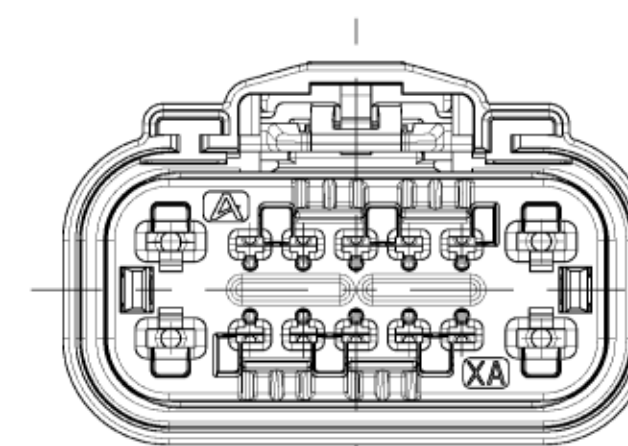


"OPTION - D"

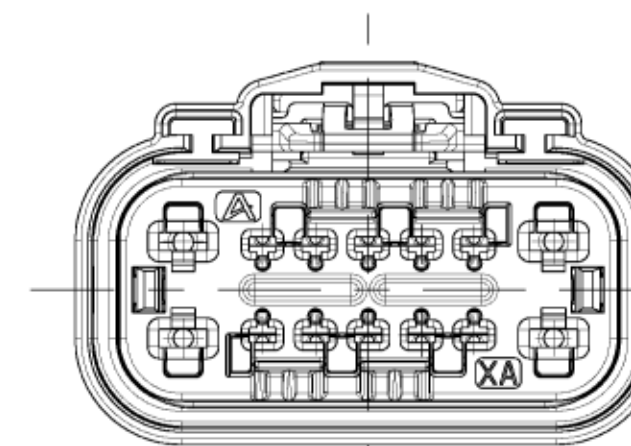
FEMALE ASSEMBLY WITHOUT SHORTING BAR ACTUATING CAM



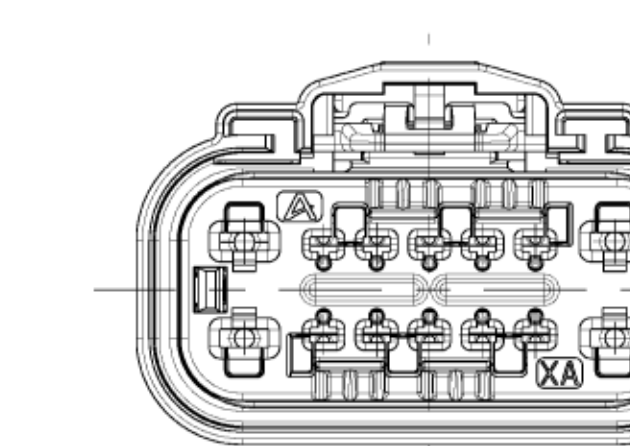
"OPTION - E"



"OPTION - F"



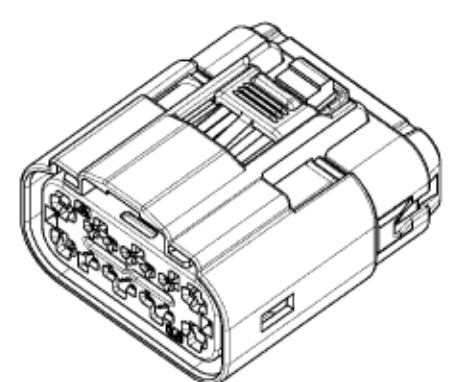
"OPTION - G"



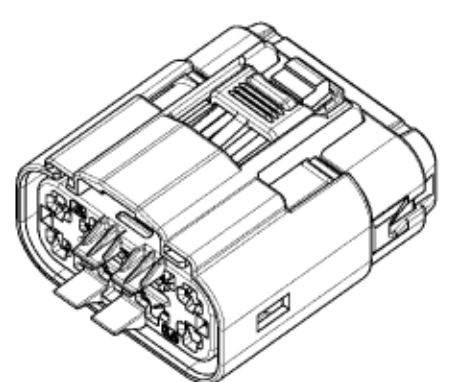
"OPTION - H"

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	BY	CHKD.	DESCRIPTION	REV.	DATE	BY	CHKD.	DESCRIPTION
1				INITIAL RELEASE	1				INITIAL RELEASE
2				INITIAL RELEASE	2				INITIAL RELEASE
3				INITIAL RELEASE	3				INITIAL RELEASE
4				INITIAL RELEASE	4				INITIAL RELEASE
5				INITIAL RELEASE	5				INITIAL RELEASE
6				INITIAL RELEASE	6				INITIAL RELEASE
7				INITIAL RELEASE	7				INITIAL RELEASE
8				INITIAL RELEASE	8				INITIAL RELEASE
9				INITIAL RELEASE	9				INITIAL RELEASE
10				INITIAL RELEASE	10				INITIAL RELEASE
11				INITIAL RELEASE	11				INITIAL RELEASE
12				INITIAL RELEASE	12				INITIAL RELEASE
13				INITIAL RELEASE	13				INITIAL RELEASE
14				INITIAL RELEASE	14				INITIAL RELEASE
15				INITIAL RELEASE	15				INITIAL RELEASE
16				INITIAL RELEASE	16				INITIAL RELEASE
17				INITIAL RELEASE	17				INITIAL RELEASE
18				INITIAL RELEASE	18				INITIAL RELEASE
19				INITIAL RELEASE	19				INITIAL RELEASE
20				INITIAL RELEASE	20				INITIAL RELEASE
21				INITIAL RELEASE	21				INITIAL RELEASE
22				INITIAL RELEASE	22				INITIAL RELEASE
23				INITIAL RELEASE	23				INITIAL RELEASE

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