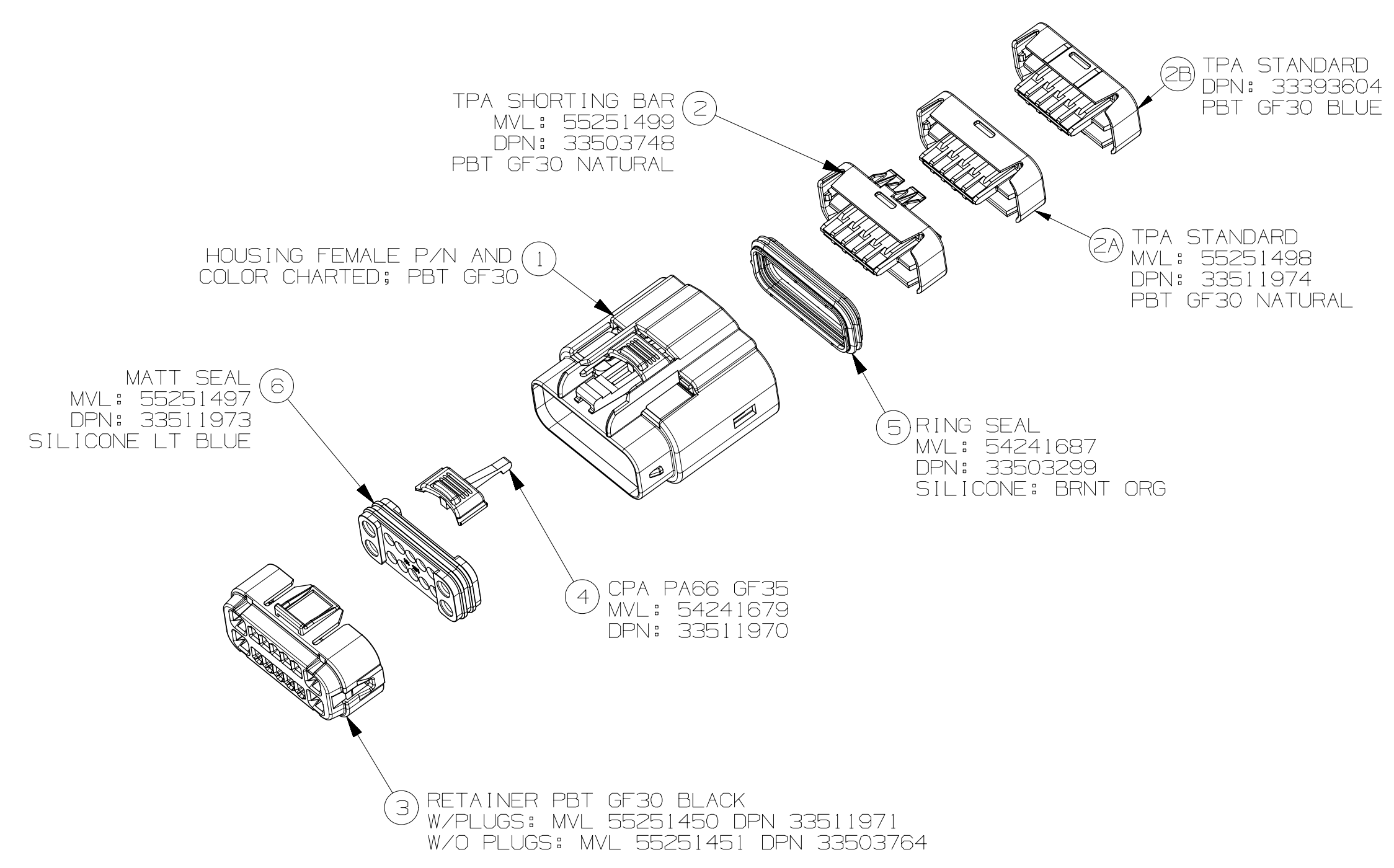


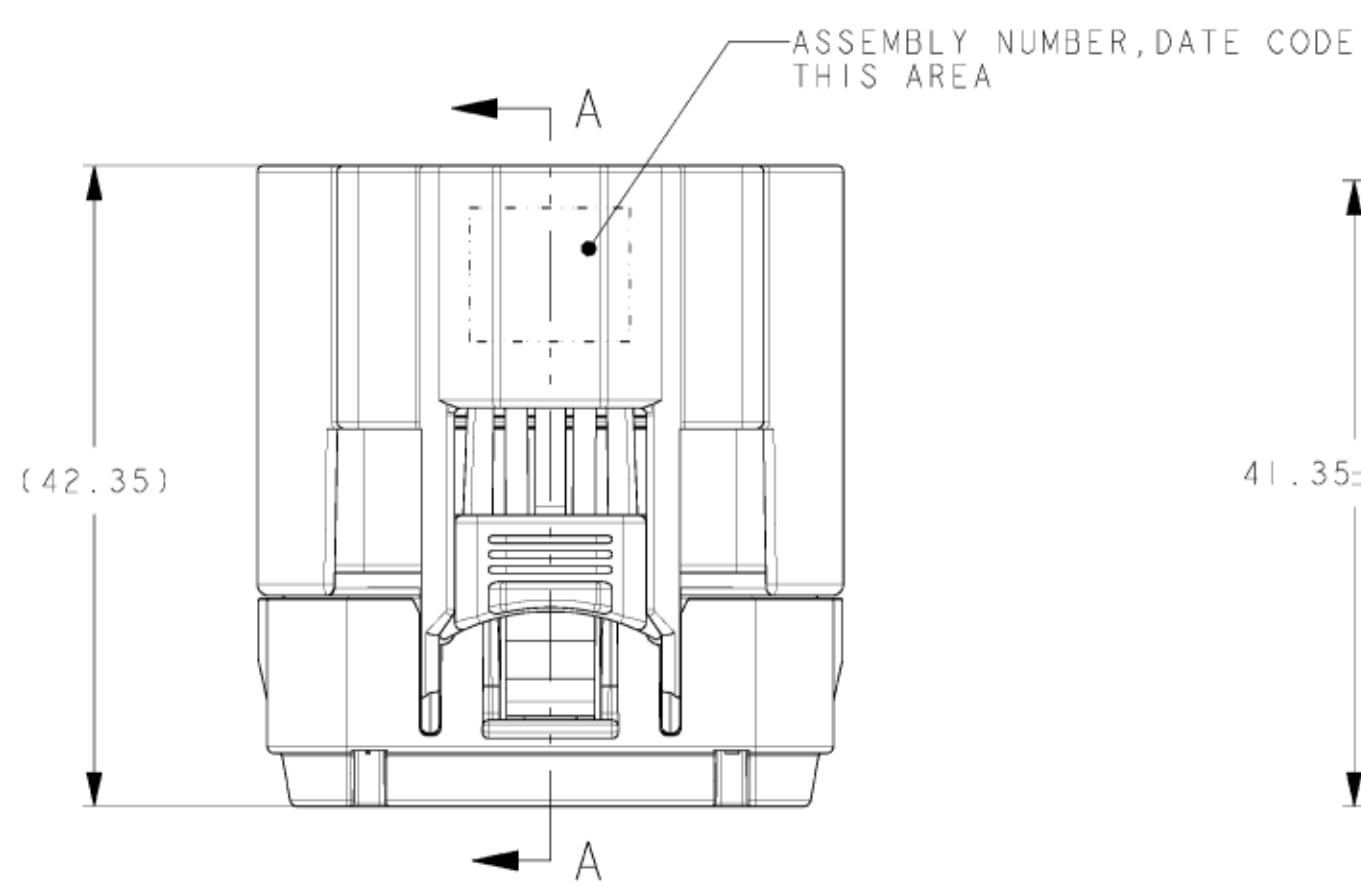
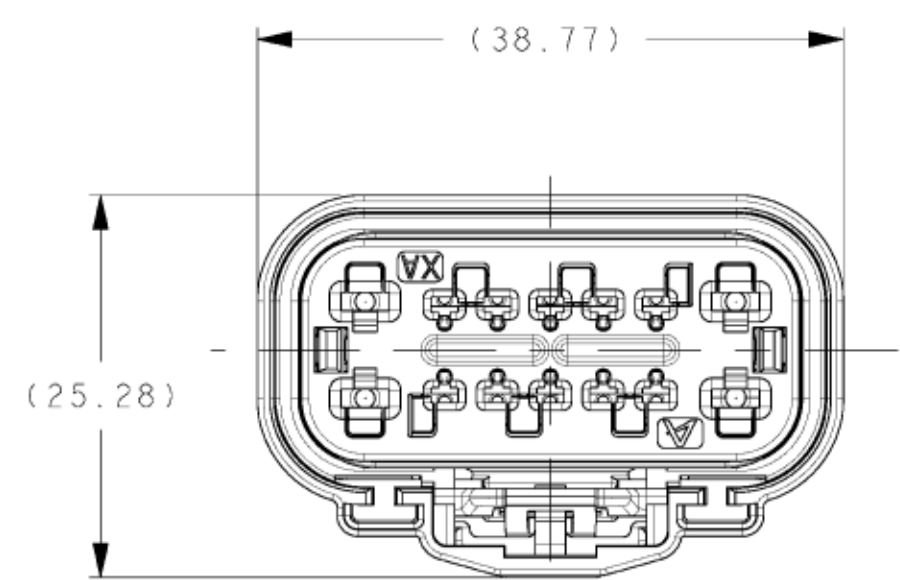
	23				22					20				19				18				17				16				15				14				13			
	ASSEMBLY NUMBERS								REV LEVEL		KEY OPTI ONS	COLOR	COMPONENTS								Plugged (X) Seal Positions														OPEN CIRCUITS			MATING P/N REFERENCE			
	WITH CPA				W/O CPA				MVL	DELPHI			HOUSING		TPA		RETAINER		2,8		---1,5---		-2,8-		---1,5---		2,8		1,5	2,8	TOTAL	MVL	DELPHI								
	MVL	DELPHI	MVL	DELPHI	MVL	DELPHI	MVL	DELPHI					MVL	DELPHI	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	-	3393604	55251498	33511974	55251451	33503784	10	4	14	-	-																				
	55251401	15503430	55251401N	33500362	F	01	B	GREY	55251489	33503671	-	-		-		-																									
	55251402	33512096	55251402N	33500363	F	01	C	BROWN	55251490	33503672	-	-		-		-																									
	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	-	-		-		-																									
Q	55251406	33500221	55251406N	33500367	N	01	G	YELLOW	55251494	33503676	55251499	33503748	10	2	12	-	-																								
	55251407	33500222	55251407N	33500368	N	01	H	YELLOW	55251495	33503677		-				-	-	-																							
	55251408	33500223	55251408N	33500369	F	01	A	BLACK	55251488	33511972		X				-	X	-																							
	55251409	33500224	55251409N	33500370	F	01	B	GREY	55251489	33503671		X				-	X	-																							
	55251410	33500225	55251410N	33500371	F	01	A	BLACK	55251488	33511972		-				-	-	-																							
	55251411	33500226	55251411N	33500372	F	01	B	GREY	55251489	33503671		-				-	-	-																							
P	55251412	33500227	55251412N	33500373	F	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	55251413	33500228	55251413N	33500374	F	01	B	GREY	55251489	33503671		-		-				-	-																						
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	55251417	33500232	55251417N	33500378	F	01	B	GREY	55251489	33503671		-		-				-	-																						
O	55251418	33511512	55251418N	33511591	F	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	3	13	-	-																						
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	55261402	33511516	55261402N	33511595	F	01						-		-				-	-																						
	55261403	33511517	55261403N	33511596	F	01						-		-				-	-																						
55261404	33511518	55261404N	33511597	F	01	-					-	-	-																												
N	55261405	33511519	55261405N	33511598	F	01	B	GREY	55251489	33503671	55251498	33511974	55251451	33503784	10	3	13	-	-																						
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	55261407	33511521	55261407N	33511600	F	01								-				-	-	-																					
	55261408	33511522	55261408N	33511601	F	01								-				-	-	-																					
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M	55261411	33511525	-	-	N	01	E	YELLOW	55251492	33503674	55251499	33503748	55251451	33503784	10	4	13	-	-																						
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L	55261417	33511531	-	-	N	01	E	YELLOW	55251492	33503674	55251499	33503748	55251451	33503784	10	4	13	-	-																						
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	55261421	33511535	-	-										-				-	-	-																					
	55261422	33511536	55261422N	33502054										N				01	-	-	-	-																			
K	55261423	33511537	55261423N	33502055	N	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	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								-				-	-	-																					
J	55261429	33511543	55261429N	33511609	H	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
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	55261431	33511545	55261431N	33511611	J	01								-				-	-	-																					
	55261432	33511546	55261432N	33511612	J	01								-				-	-	-																					
	55261433	33511547	55261433N	33511613	J	01								-				-	-	-																					
	55261434	33511548	55261434N	33511614	J	01								-				-	-	-																					
I	55261435	33511549	55261435N	33511615	K	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	55261436	33511550	55261436N	33511616	K	01								-				-	-	-																					
	55261437	33511551	55261437N	33511617	K	01								-				-	-	-																					
	55261438	33511552	55261438N	33511618	L	01								-				-	-	-																					
	55261439	33511553	55261439N	33511619	L	01								-				-	-	-																					
	55261440	33511554	55261440N	33511620	L	01								-				-	-	-																					
H	55261441	33511555	55261441N	33511621	L	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	55261442	13711891	55261442N	33511622	L	01								-				-	-	-																					
	55261443	13706837	55261443N	33511623	L	01								-				-	-	-																					
	55261444	13711894	55261444N	33511624	L	01								-				-	-	-																					
	55261445	33511556	55261445N	33511625	L	01								-				-	-	-																					
	55261446	33511557	55261446N	33511626	L	01								-				-	-	-																					
G	55261447	33511558	55261447N	33511627	L	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
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	55261449	33511560	55261449N	33511629	L	01								-				-	-	-																					
	55261450	33511561	55261450N	33511630	L	01								-				-	-	-																					
	55261451	33511562	55261451N	33511631	L	01								-				-	-	-																					
	55261452	13706590	55261452N	33511632	L	01								-				-	-	-																					
F	55261453	33511563	55261453N	33511633	M	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	55261454	33511564	55261454N	33511634	N	01								-				-	-	-																					
	55261455	13711889	55261455N	33511635	N	01								-				-	-	-																					
	55261456	13711892	55261456N	33511636	N	01								-				-	-	-																					
	55261457	13706834	55261457N	33511637	N	01								-				-	-	-																					
	55261458	13711893	55261458N	33511638	N	01								-				-	-	-																					
E	55261459	13711890	55261459N	33511639	N	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	55261460	33511565	55261460N	33511640	N	01								-				-	-	-																					
	55261461	33511566	55261461N	33511641	N	01								-				-	-	-																					
	55261462	13706835	55261462N	33511642	N	01								-				-	-	-																					
	55261463	33511567	-	-	P	01								E				YELLOW	55251492	33503674	55251499	33503748	-	-	-	-															
	55261464	33511568	-	-	P	01																	-	-	-	-															
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55261466	33511570	55261466N	33511643	R	01	-	-	-	-																																
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D	55261468	33511572	55261468N	33511645	R	01	A	BLACK	55251488	33511972	55251498	33511974	55251451	33503784	10	4	13	-	-																						
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	55261470	33511574	55261470N	33511647	R	01								-				-	-	-																					
	55261471	33511575	55261471N	33511648	R	01								-				-	-	-																					
	F789200	33511576	F989200	33511649	A	01								-				-	-	-																					
	F889200	33511577	F099200	33511650	A	01								-				-	-	-																					
C	F345300	13768582	F835300	33511651	A	01	B	GRAY	55251489	33503671	55251498	33511974	55251451	33503784	10	4	13	-	-																						
	F245300	13768585	F935300	33511652	A	01								-				-	-	-																					
	F018010	33511578	-	-	A	01								A				BLACK	55251488	33511972	-	-	-	-																	
	F118010	33511579	-	-	A	01															-	-	-	-																	
	F218010	33511580	-	-	A	01															-	-	-	-																	
	F318010	33511581	-	-	A	01															-	-	-	-																	
F418010	33511582	-	-	A	01	-	-	-	-																																
B	F908010	33511583	-	-	A	01	A	BLACK	55251488	33511972	55251498	33503748	55251451	33503784	10	4	13	-	-																						
	F082110	33511584	F182110	33511653	A	01								B				GRAY	55251489	33503671	-	-	-																		

12		11		10		9		8		7		6		5		4		3		2		1																				
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	MVL	DELPHI	1	2	3	4	5	6	7	8						9	10	11	12	13	14								
F593310	33511696	-	-	A	01	A	BLACK	55251488	33511972	55251498	33511974	55251450	33511971		X			X	X	X	X	X		4	2	6	-	-														
F693310	33511697	-	-	A	01																						X	X		8	4	12	-	-								
F793310	33511698	-	-	A	01																						X	X	X	2	1	3	-	-								
F893310	33511699	-	-	A	01																						X	X	X	2	2	4	-	-								
F993310	33511700	-	-	A	01																						X	X	X	4	3	7	-	-								
F004310	33511701	-	-	A	01																						X	X	X	5	4	9	-	-								
F104310	33511702	-	-	A	01																						X	X	X	5	2	7	-	-								
F204310	33511703	-	-	A	01																						X	X	X	5	2	7	-	-								
F067310	33511704	F167310	33511714	A	01																						X	X	X	5	3	8	F967310	33511510								
F267310	33511705	-	-	A	01									E	YELLOW	55251492	33503674	55251499	33503748	55251450	33511971	X	X			X	X	X	X	X	4	1	5	-	-							
F367310	33511706	-	-	A	01																						X	X	X	4	2	6	-	-								
F649310	33511707	-	-	A	01																						X	X	X	6	2	8	-	-								
F749310	33511708	-	-	A	01																						X	X	X	4	2	6	-	-								
F959410	33511709	-	-	A	01																						X	X	X	5	2	7	-	-								
F069410	33511710	-	-	A	01	A	BLACK	55251488	33511972	55251498	33511974	55251450	33511971										X	X	X		X	X	X	6	2	8	-	-								
F169410	33511711	-	-	A	01																														X	X	X	5	0	6	-	-
F269410	33511712	-	-	A	01																														X	X	X	6	0	5	-	-
F033510	33511713	-	-	A	01																	B	GRAY	55251489	33503671	-	3393604	55251451	33503764					X	X	X	X	4	2	6	-	-
-	35042900	-	-	A	01																	A	BLACK	55251488	33511972	-	3393604	55251451	33503764					X	X	X	X	10	4	14	-	-
-	-	-	35174934	-	01									B	GRAY	55251489	33503671	-	33511974	55251450	33511971	X	X	X	X	X	X	X	1	1	2	-	35142031									
-	-	-	35176120	-	01									B	GRAY	55251489	33503671	55251498	33511974	55251450	33511971		X	X	X	X	X	X	5	4	9	-	35176122									
-	-	-	35176121	-	01									B	GRAY	55251489	33503671	55251498	33511974	55251450	33511971		X				X	X	8	4	12	-	35176123									
-	35201855	-	-	02	E									YELLOW	55251492	33503674	-	3393604				X	X	X	X	X	X	X	6	2	8	-	-									

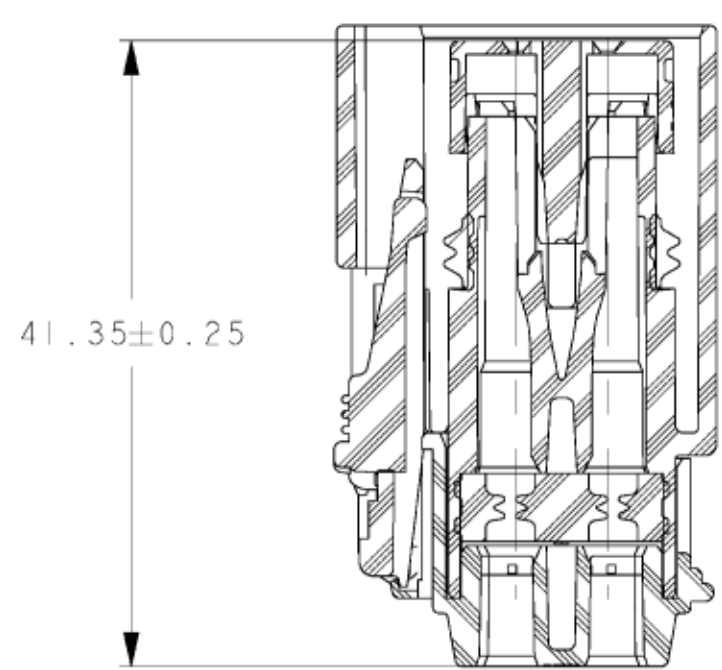


EXPLODED VIEWS FOR REFERENCE

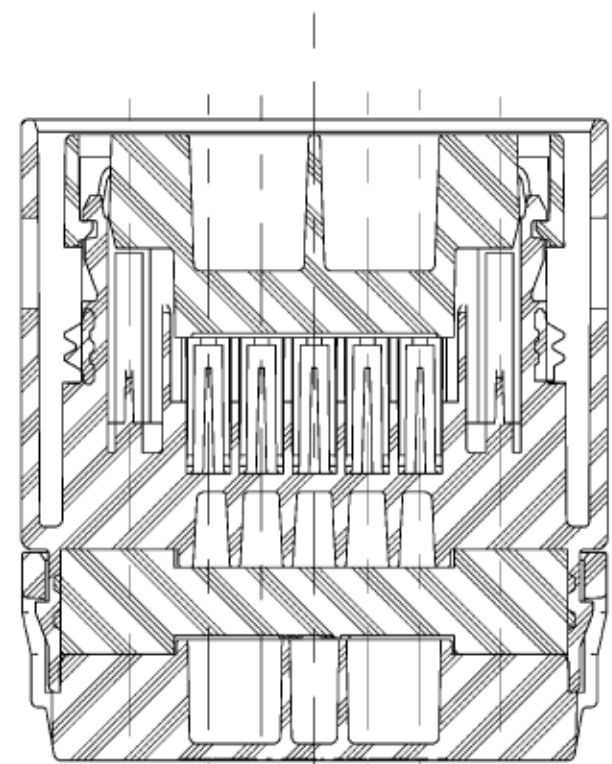
[illegible]



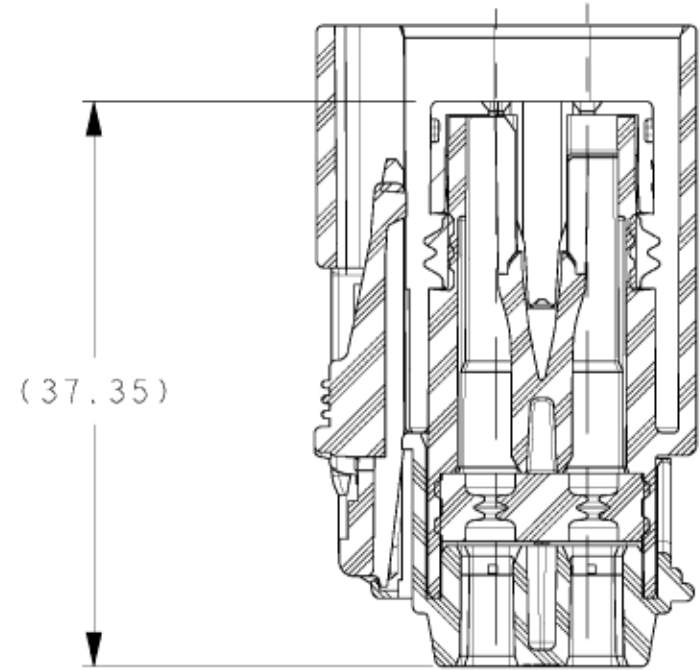
SCALE 2:1



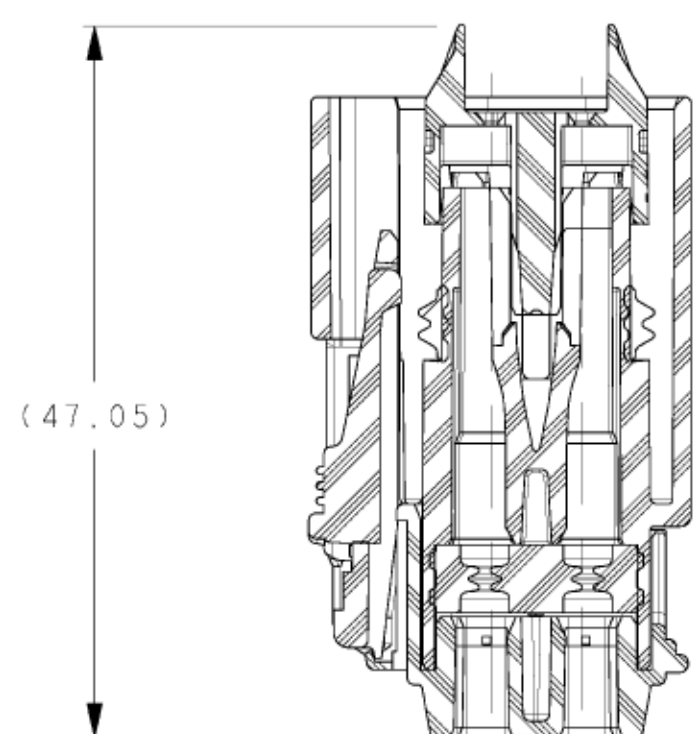
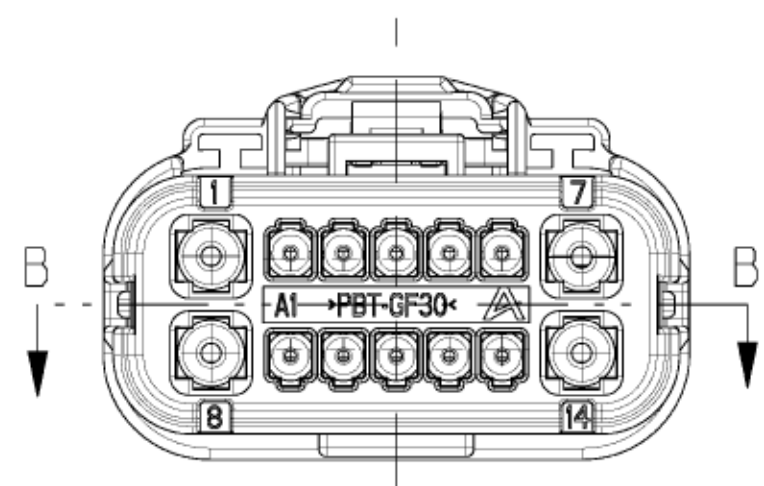
SECTION A-A
CPA & TPA IN PRE-ASSEMBLED POSITION



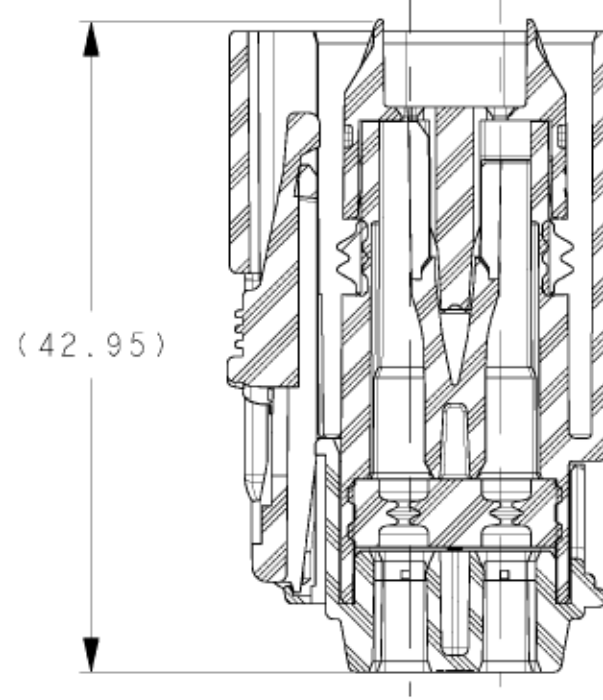
SECTION B-B



SECTION
CPA & TPA IN FINAL POSITION



SECTION A-A
TPA IN PRE-LOCK POSITION



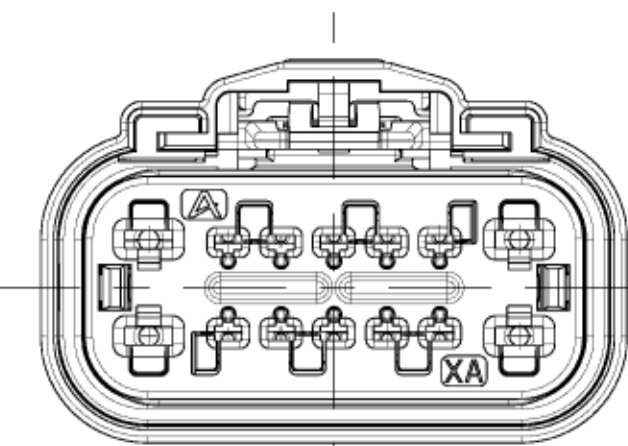
SECTION A-A
TPA IN FINAL LOCK POSITION

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

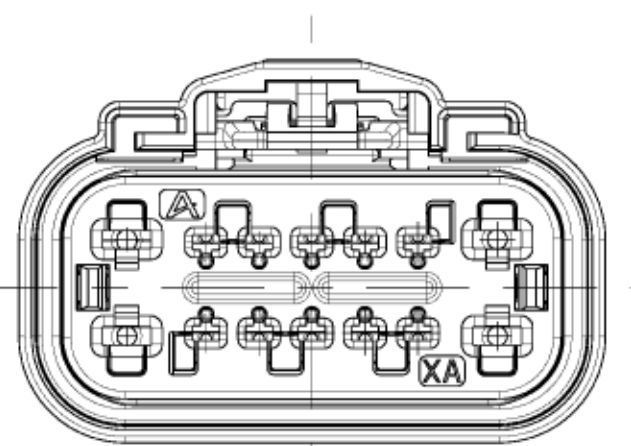
COMMON PART NUMBER CHART ONE EACH INCLUDED IN ASSEMBLY				
ITEM	PART NUMBERS		DESCRIPTION	MATERIAL
	MVL	DELPHI		
5	54241687	33503289	RING SEAL	SILICONE
6	54251497	33511964	MATT SEAL	SILICONE

NOTES:

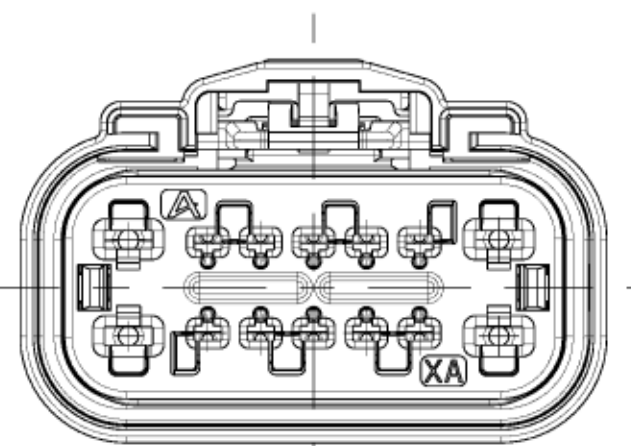
- TEMPERATURE CLASS: 3 (-40° C to +125° C)
- SEE CHART FOR TEST METHOD
SEE CHART
- CONNECTOR MAY BE USED WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES:
 - APEX 150 TERMINALS:
 - SIZE : 22AWG TO 18AWG (Ø 1.50 TO Ø 2.41 INSULATION O.D.)
 - TYPE : TXL (MIL123-A / MS-R298)
 - ALTERNATELY :
 - SIZE : 0.75mm² TO 1.0mm² (Ø 1.70 TO Ø 2.40 INSULATION O.D.)
 - TYPE : 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-R298)
 - 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 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



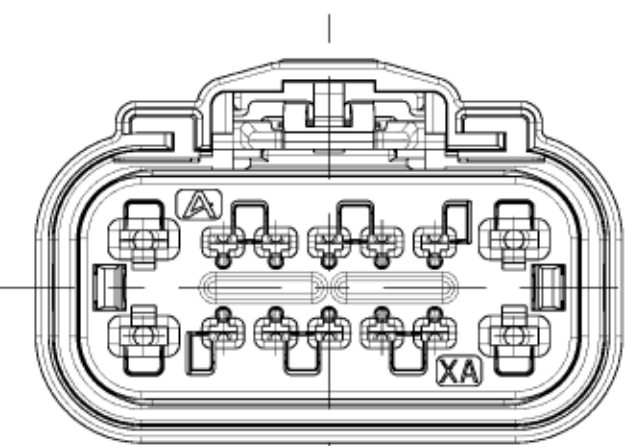
"OPTION - A"



"OPTION - B"

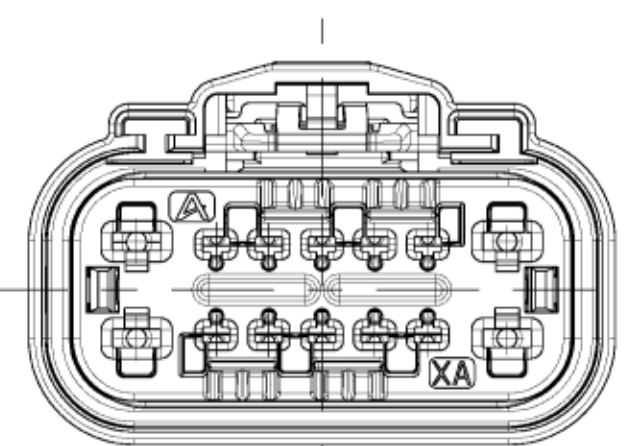


"OPTION - C"

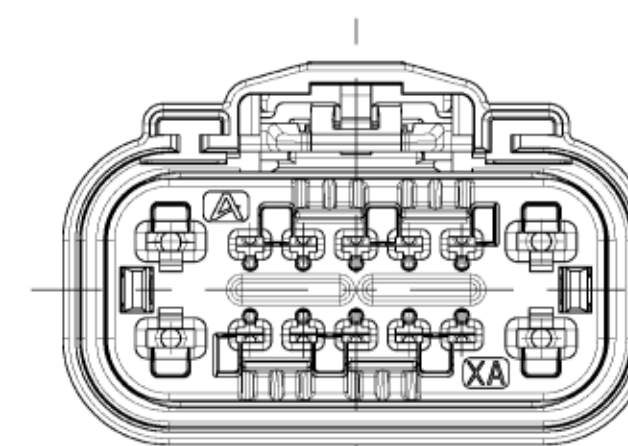


"OPTION - D"

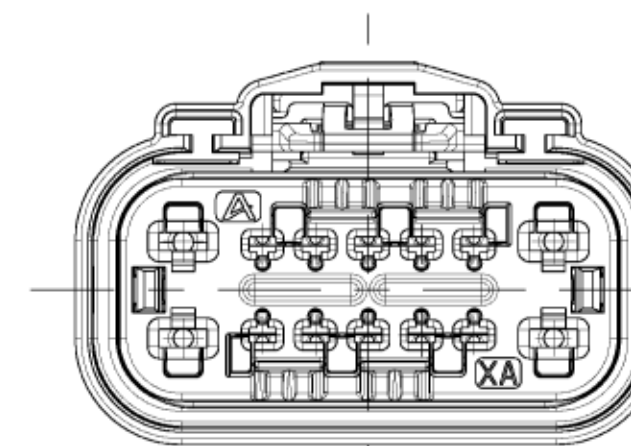
FEMALE ASSEMBLY WITHOUT SHORTING BAR ACTUATING CAM



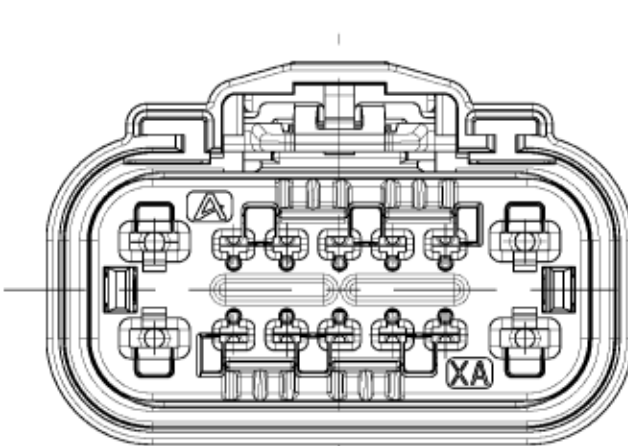
"OPTION - E"



"OPTION - F"



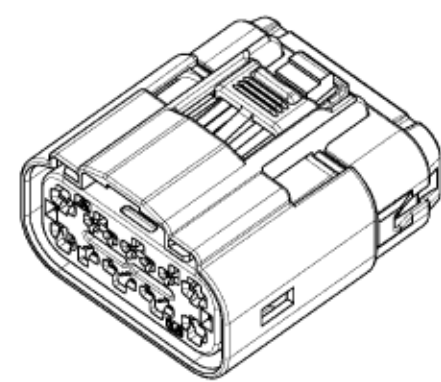
"OPTION - G"



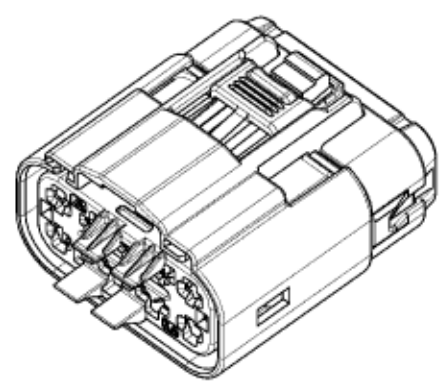
"OPTION - H"

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	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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