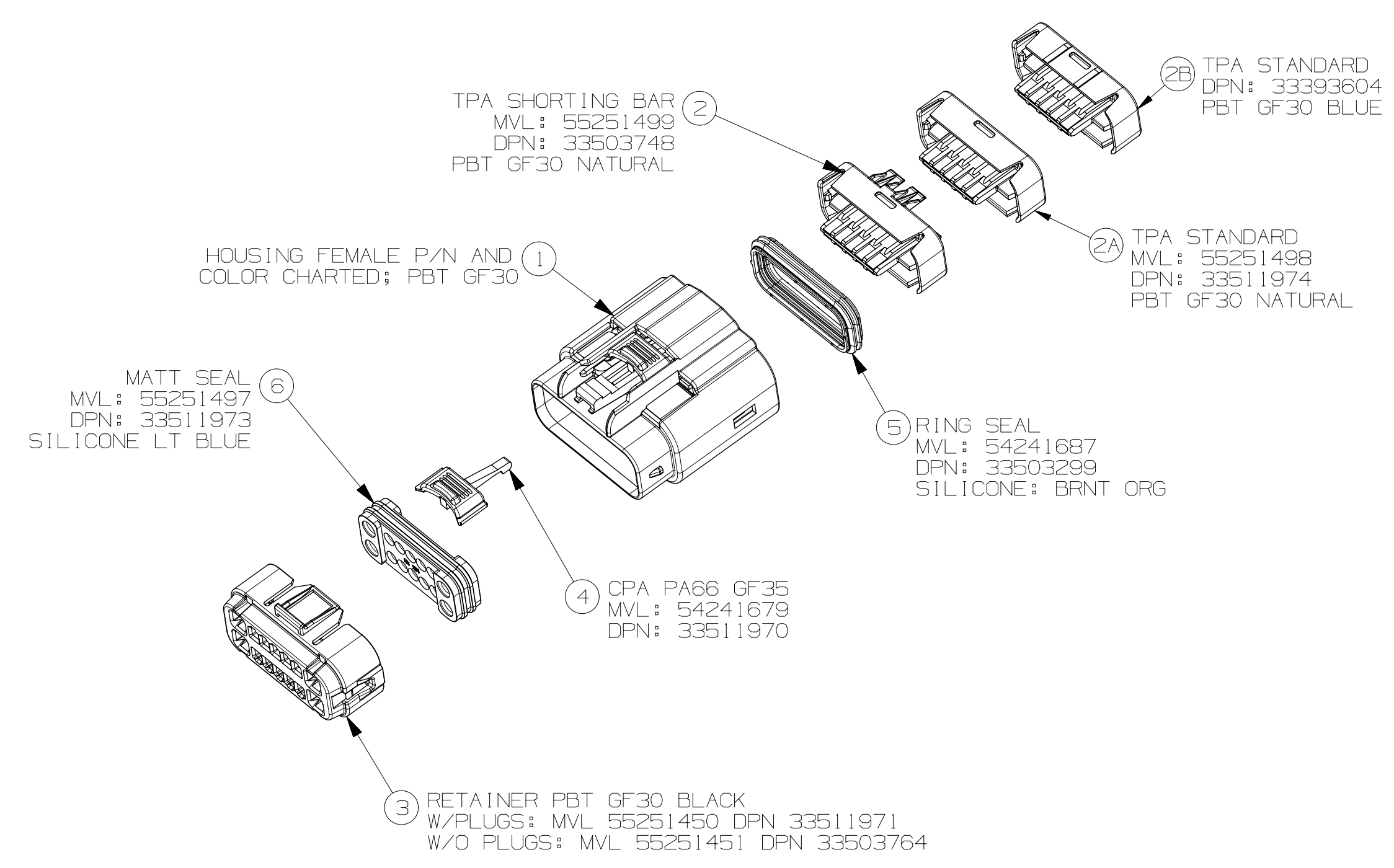


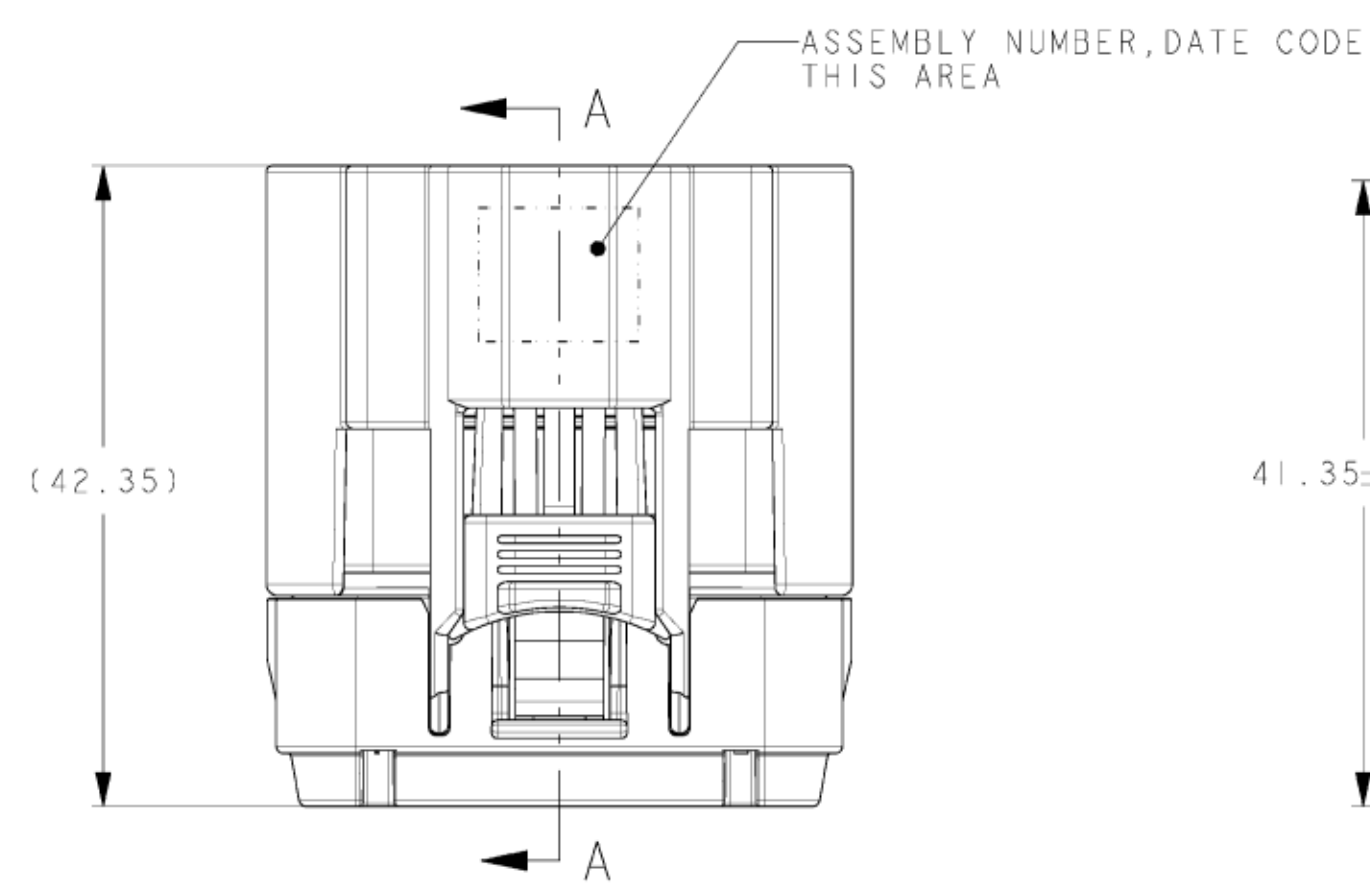
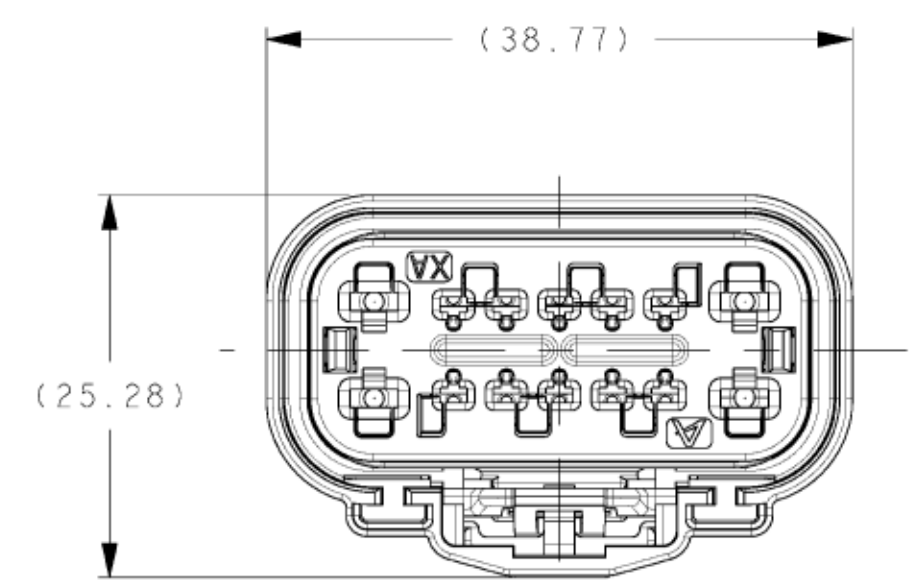
[illegible]

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	2	1	3	-	-									
F893310	33511699	-	-	A	01																						X	X	2	2	4	-	-									
F993310	33511700	-	-	A	01																						X	X	4	3	7	-	-									
F004310	33511701	-	-	A	01																						X	X	5	4	9	-	-									
F104310	33511702	-	-	A	01																						X	X	5	2	7	-	-									
F204310	33511703	-	-	A	01																						X	X	5	2	7	-	-									
F067310	33511704	F167310	33511714	A	01																						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	4	1	5	-	-								
F367310	33511706	-	-	A	01																						X	X	4	2	6	-	-									
F649310	33511707	-	-	A	01																						X	X	6	2	8	-	-									
F749310	33511708	-	-	A	01																						X	X	4	2	6	-	-									
F959410	33511709	-	-	A	01																						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	5	0	6	-	-	
F269410	33511712	-	-	A	01																														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										X	X	10	4	14	-
-	-	-	35174934	-	01									B	GRAY	55251489	33503671	-	33511974								X			X	1	1	2	-	35142031							
-	-	-	35176120	-	01									B	GRAY	55251489	33503671	55251498	33511974								X			X	5	4	9	-	35176122							
-	-	-	35176121	-	01									B	GRAY	55251489	33503671	55251498	33511974								X			X	8	4	12	-	35176123							
-	35201855	-	-	02	E									YELLOW	55251492	33503674	-	3393604				X	X	X	X	X	6			2	8	-	-	-	-							

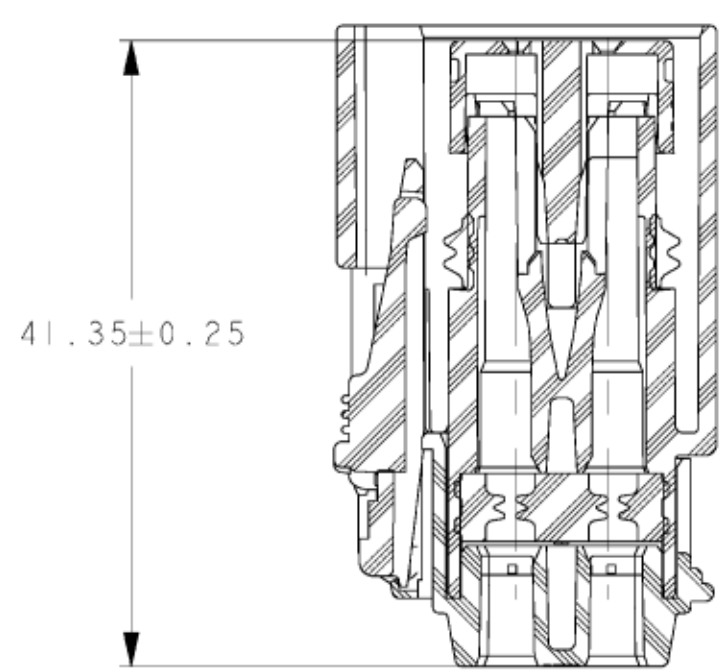


EXPLODED VIEWS FOR REFERENCE

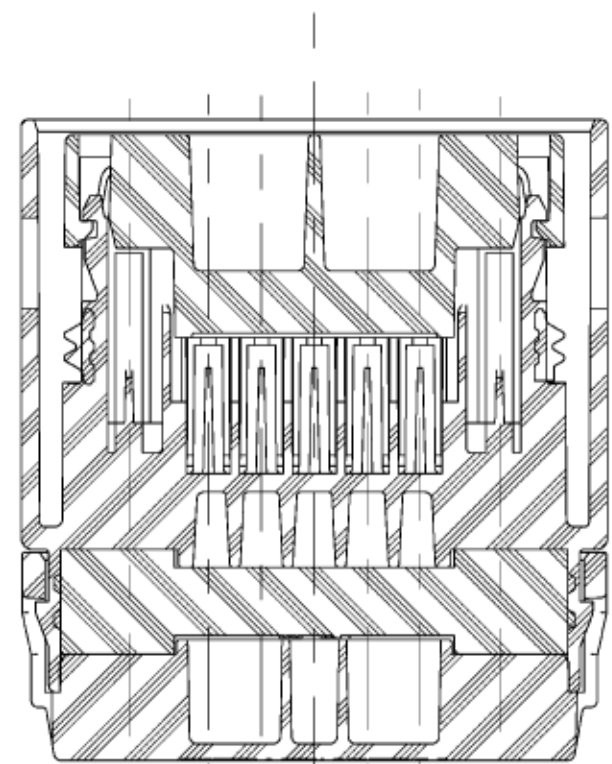
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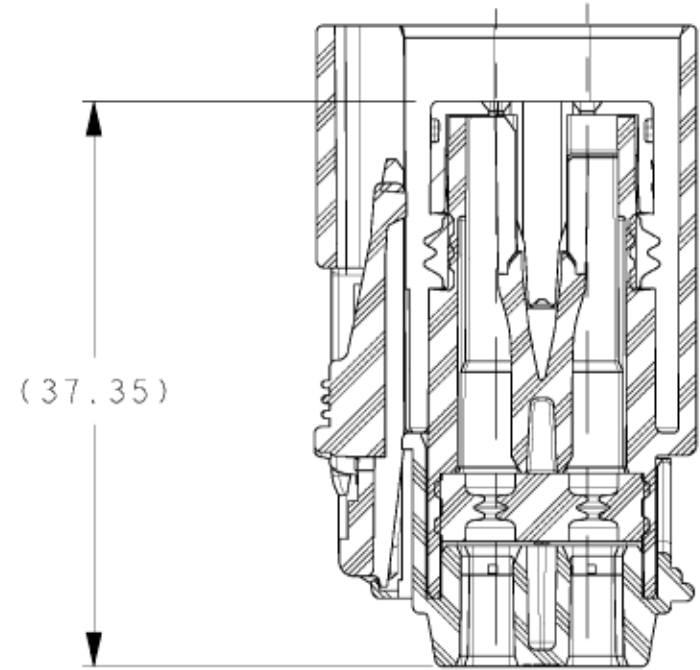
SCALE 2:1



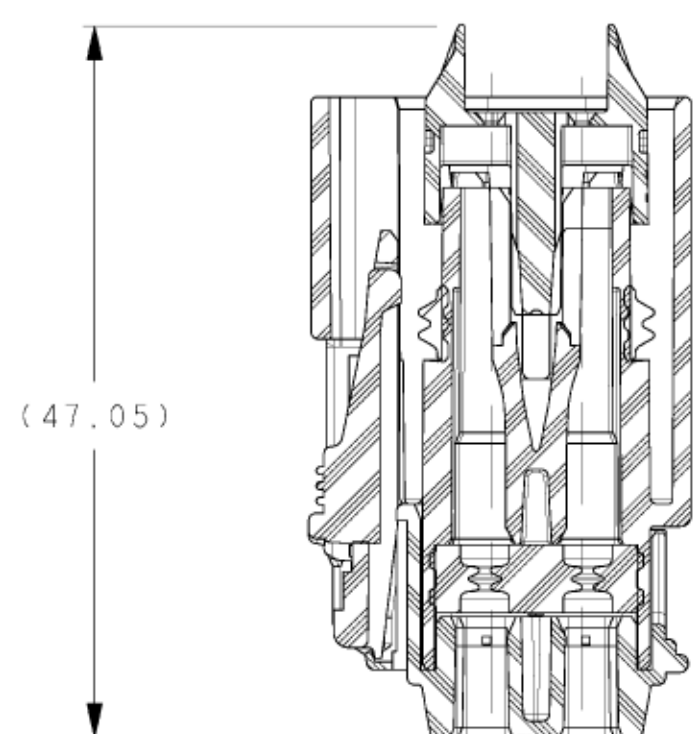
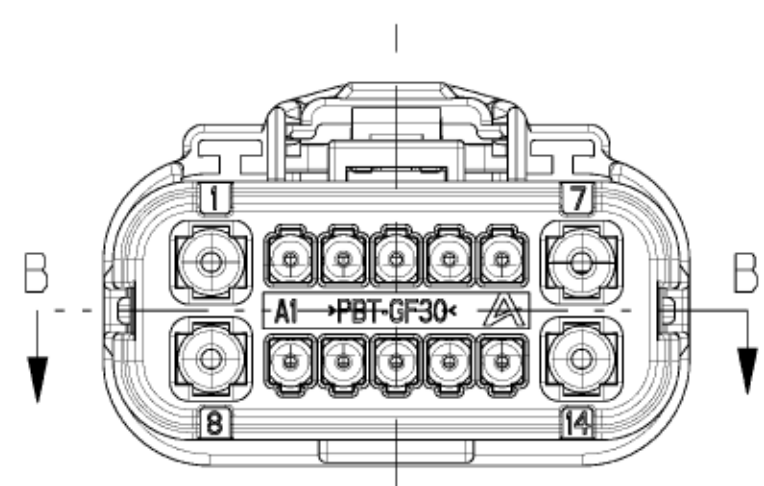
SECTION A-A
CPA & TPA IN PRE-ASSEMBLED POSITION



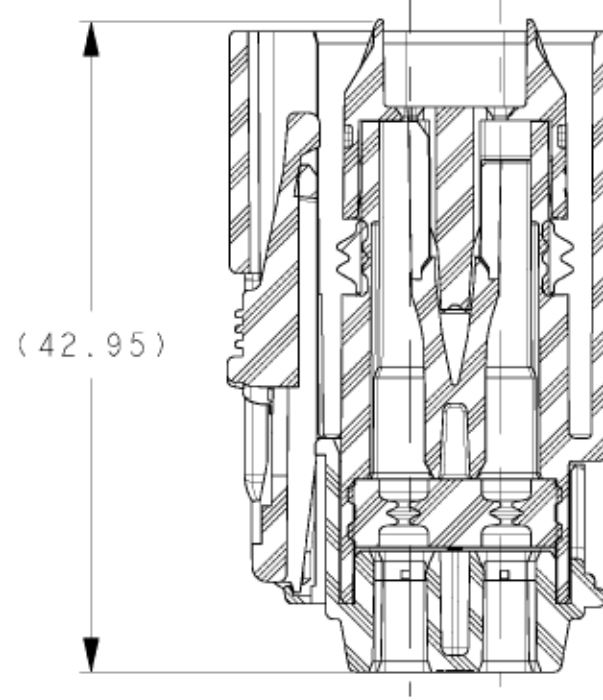
SECTION B-B



SECTION
CPA & TPA IN FINAL POSITION



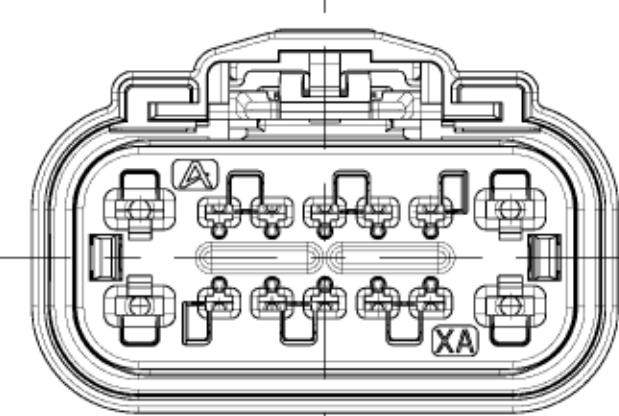
SECTION A-A
TPA IN PRE-LOCK POSITION



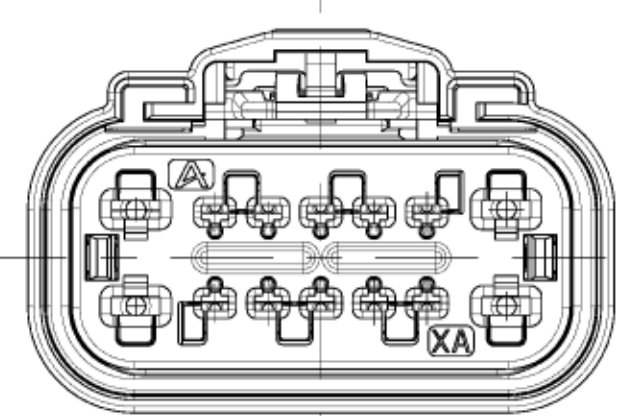
SECTION A-A
TPA IN FINAL LOCK POSITION

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

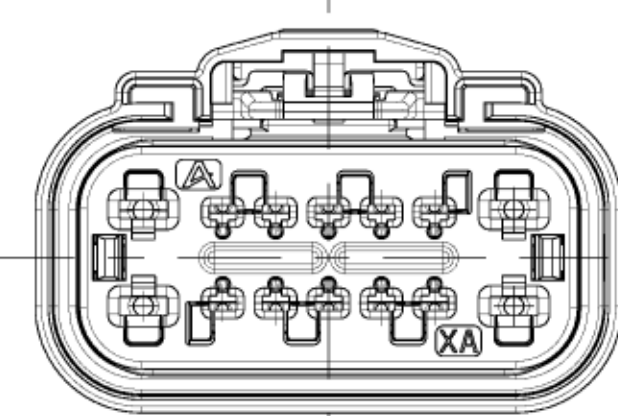
COMMON PART NUMBER CHART ONE EACH INCLUDED IN ASSEMBLY				
ITEM	PART NUMBERS		DESCRIPTION	MATERIAL
	MVL	DELPHI		
5	54241687	33503289	RING SEAL	SILICONE
6	54251497	33511964	MATT SEAL	SILICONE



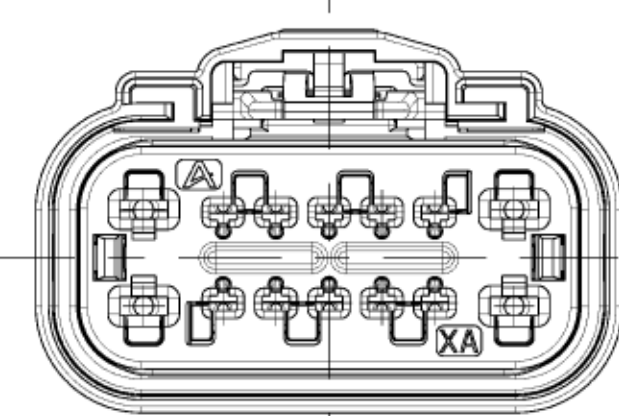
"OPTION - A"



"OPTION - B"

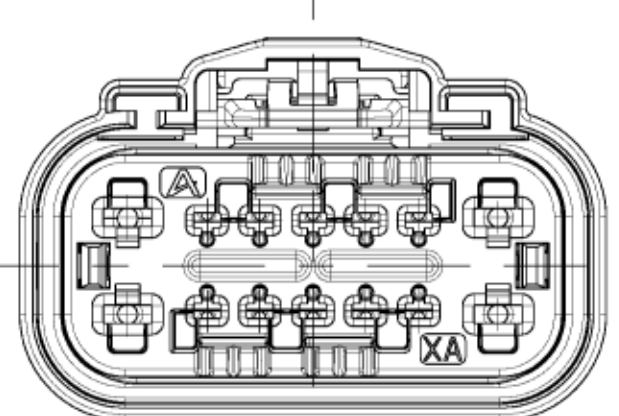


"OPTION - C"

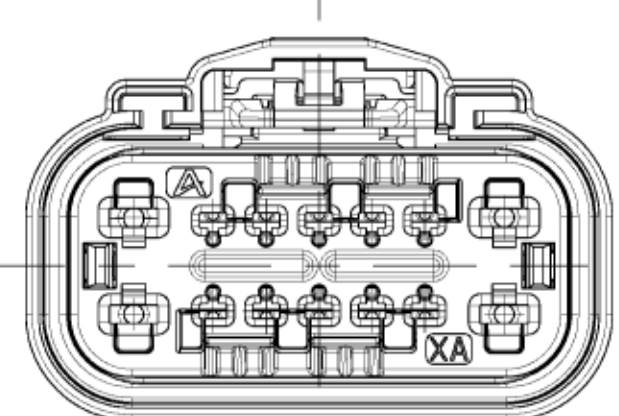


"OPTION - D"

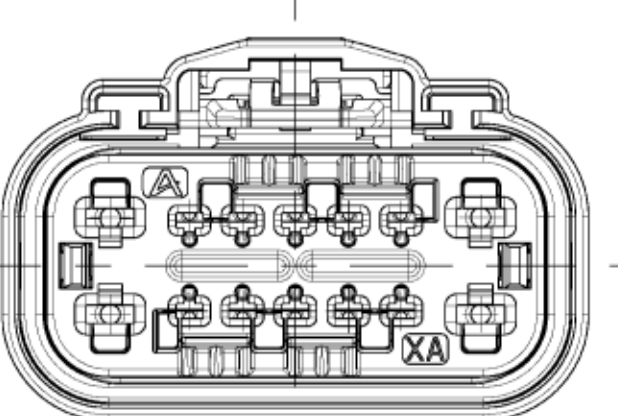
FEMALE ASSEMBLY WITHOUT SHORTING BAR ACTUATING CAM



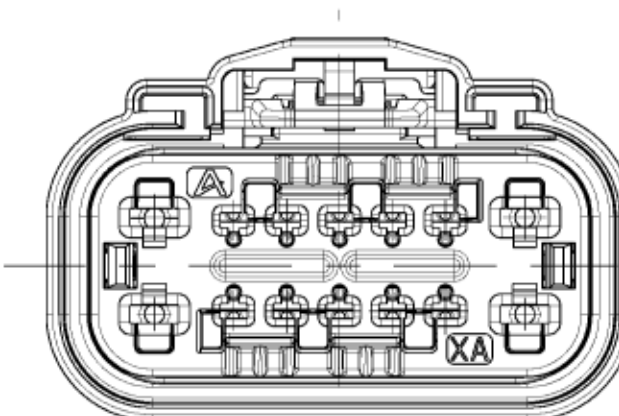
"OPTION - E"



"OPTION - F"



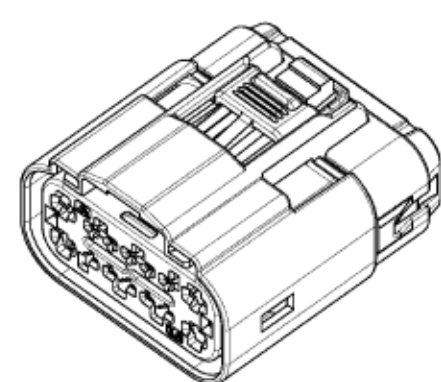
"OPTION - G"



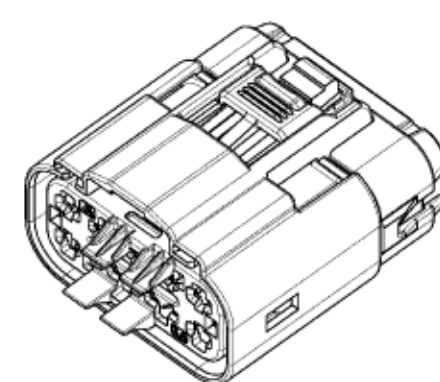
"OPTION - H"

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

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 : 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-8298)
 - 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 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

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
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