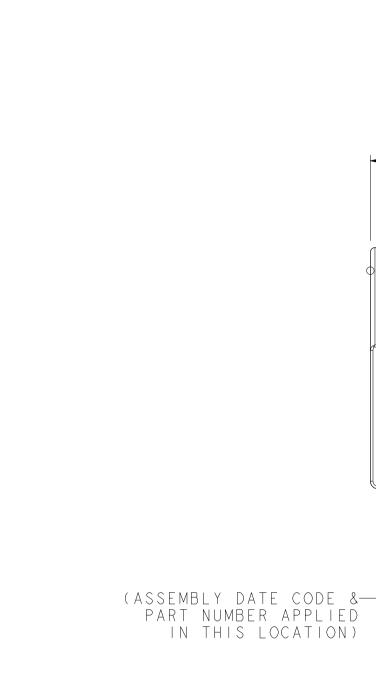
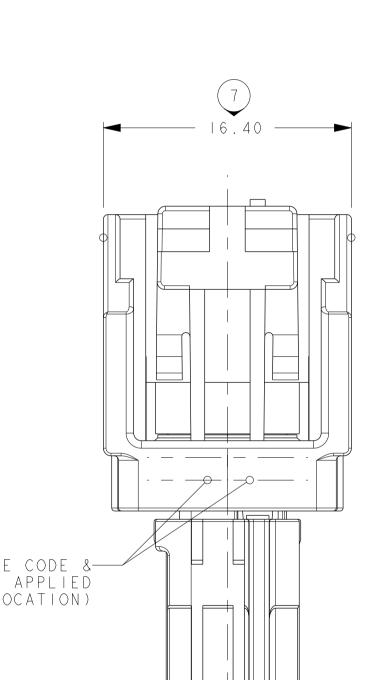
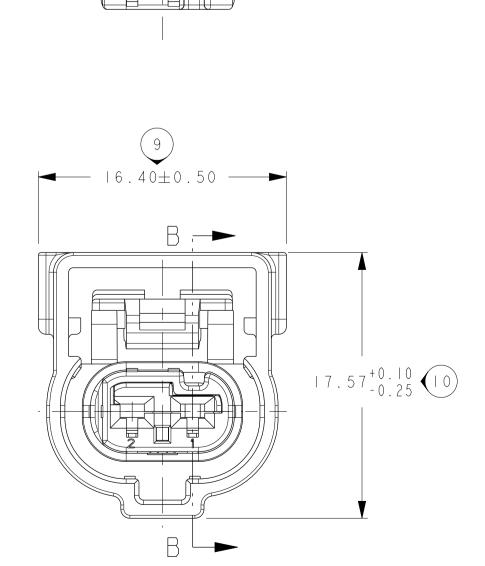
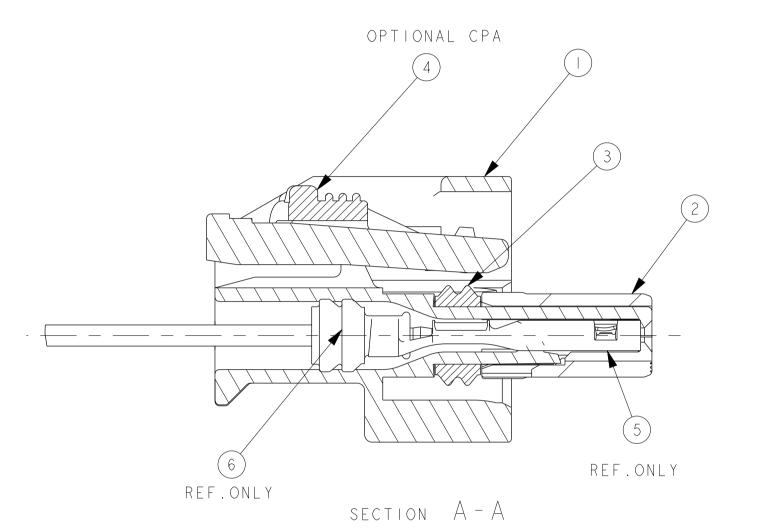
		16		15		4		1 3		12		
	ASSEMBLY PART NUMBER CHART											
	PART NUMBERS						COMPONENTS					
	DELPHI			MVL	REV	KEY	COLOR	INSULATOR (HOUSING)	TPA (BLU	JE) RING SEAL (GREEN)	CPA (RED) (OPTIONAL)	
		I F	REV					ITEMI	ITEM 2	PITEM 3	ITEM 4	
								PA66 GF35	PA66 GF	35 SILICONE	PA66 GF35	
M	138062	3	0	F495100	А	А	BLACK	S106100	\$50610	0	N / A	
	138489	32	0	F595100	А	В	LT GRAY	\$206100	\$60610	0		
	155325	68	0	F695100	А	С	DK GRAY	\$306100	S70610	0 C895100		_
	139736	07	02	F460400	В	А	BLACK	S106100	\$50610	0	F752210	
	335117	26	02	F 5 6 0 4 0 0	В	В	LT GRAY	\$206100	\$60610	0		
	335117	27	02	F660400	В	С	DK GRAY	\$306100	S70610	0		
L												

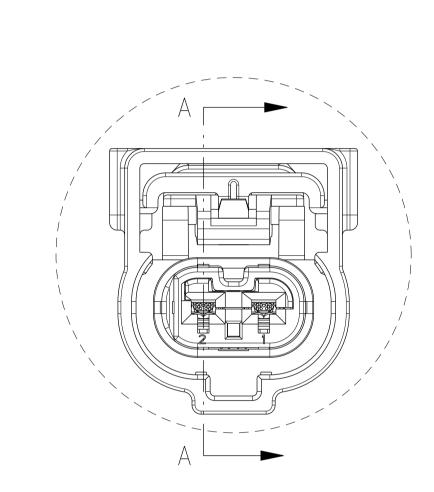
		APPLICABLE COMPONENTS CHART										
	ITEM	DESCRIPTION	PLATING OR	SUPPLIER		DELPHI	GRIP	WIRE	INSULATION DIAMETER	MATERIAL/SPEC NO		
	NO.	DESCRIPTION	COLOR	NAME	NUMBER	NUMBER	CODE	SIZE	RANGE	INVIEW IVE TO LO NO		
	5	I.20 SYSTEM TERMINAL	TIN	MVL	54001864	13576990	18	18-16 AWG 0.75-1.25mm ²	I.70mm-2.41mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	TIN	MVL	54002006	13806233	20	22-20 AWG 0.35-0.50mm ²	I.20mm-I.90mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	TIN/SILVER	MVL	54001866	358733	18	18-16 AWG 0.75-1.25mm ²	I.70mm-2.41mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	TIN/SILVER	MVL	54002007	552 522	20	22-20 AWG 0.35-0.50mm ²	I.20mm-I.90mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	SILVER	MVL	F731400	13805376	18	18-16 AWG 0.75-1.25mm ²	I.70mm-2.41mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	SILVER	MVL	F931400	13805375	20	22-20 AWG 0.35-0.50mm ²	I.20mm-I.90mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	GOLD	MVL	54001863	13579640	18	18-16 AWG 0.75-1.25mm ²	I.70mm-2.41mm	COPPER ALLOY / NA		
		I.20 SYSTEM TERMINAL	GOLD	MVL	54002005	13827658	20	22-20 AWG 0.35-0.50mm ²	I.20mm-I.90mm	COPPER ALLOY / NA		
	6	I.20 SYSTEM CABLE SEAL ROUND	RUST RED	MVL (QSR)	C528010 (A-0419)	13898958		18-16 AWG 1.00-1.25mm ²	I.90mm-2.41mm	SILICONE		
		I.20 SYSTEM CABLE SEAL ROUND	GREEN	MVL (QSR)	(A-04 9C)	33402838		22-20 AWG 0.50-0.75mm ²	I.40mm-I.90mm	SILICONE		
		I.20 SYSTEM CABLE SEAL ROUND	TAN	MVL (QSR)	C073510 (A-0419B)	33511987		0.35mm ²	I.20mm-I.40mm	SILICONE		
	7	1.20 SYSTEM SEAL PLUG	GREEN	MVL (QSR)	C628010 (A-0412)	13898957		OPTIONAL AS F	REQUIRED	SILICONE		

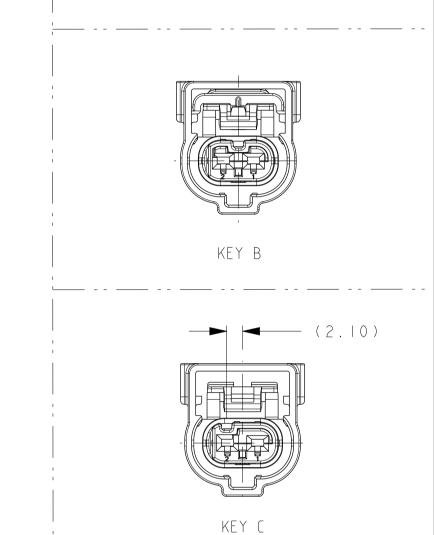












KEY A

ISOMETRIC VIEW SCALE I:I

NOTES:

I) VALIDATED TO SAE/USCAR-2 REV 5

CLASS & APPLICATION ENVIRONMENT

- 2) VALIDATED TO THE FOLLOWING TEMP, VIBRATION, AND SEALING CLASSES:
 GMW3191 SECTION 4.28 V4 T4 (155°C) WITH GOLD OR SILVER TERMINALS
- SAE/USCAR-2 V3 T4 (I50°C) WITH GOLD OR SILVER TERMINALS - SAE/USCAR-2 V3 T3 (125°C) / V2 T4 (150°C) WITH TIN/SILVER TERMINALS - SAE/USCAR-2 V2 T3 (125°C) WITH TIN TERMINALS
- SAE/USCAR-2 SEALING S3 T4 (150°C)(ISO16750 9K EQUIVELENT)
- 3) CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS: - DELPHI APEX I.2 TERMINALS LISTED IN THE APPLICABLE COMPONENTS CHART ON THIS DRAWING WITH WIRE SIZES DEFINED IN NOTE 4.
- SEE DELPHI DRAWING C18001-1-2-CUST FOR SPECIFIC TERMINAL DETAILS AND CRIMPING REQUIREMENTS
- PLATING OF TERMINALS AND MATING DEVICE BLADES MUST BE COMPATIBLE 4) CONNECTOR SYSTEM VALIDATED TO USCAR-2 REQUIREMENTS WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES IN CONJUNCTION WITH APPROPRIATE COMPONENTS FOUND IN THE "APPLICABLE COMPONENTS" CHART:

 AWG - WIRE SIZES: 22AWG - 16AWG

INSULATION DIAMETER: 1.50mm MIN - 2.41mm MAX WIRE TYPE: MILI23-A, MS-8288, MS-9502 OR EQUIVALENT

(STRUCTURE AND PROPERTIES ACCORDING TO SAE J1128) METRIC - WIRE SIZES: 0.35mm² - 1.25mm²

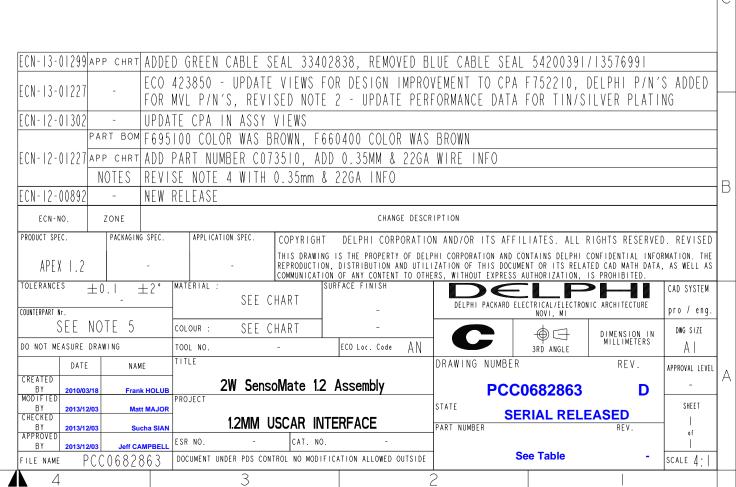
INSULATION DIAMETER: 1.20mm MIN - 2.30mm MAX WIRE TYPE: FLR2X, FLR9X OR EQUIVALENT (STRUCTURE AND PROPERTIES ACCORDING TO ISO 6722)

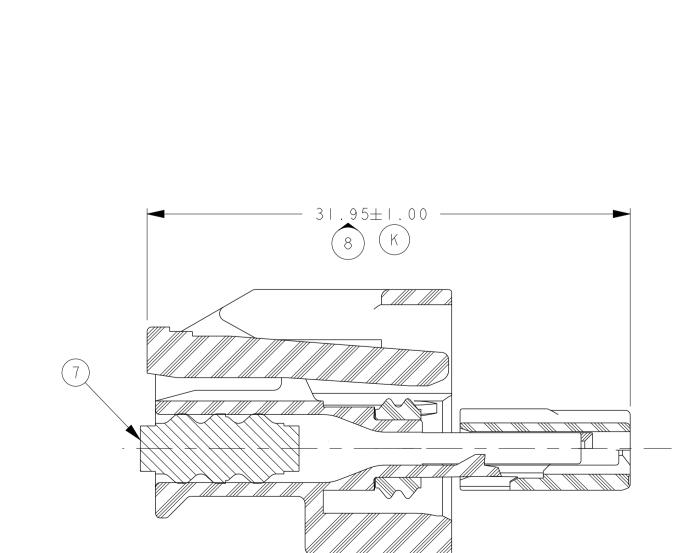
CONTACT DELPHI ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND/OR TYPES WIRE AND INSULATION TYPE MUST BE APPROPRIATE FOR TEMPERATURE

- 5) CONNECTOR IS MATE COMPATIBLE WITH DEVICES WHICH CONFORM WITH THE FOLLOWING USCAR INTERFACE SPECIFICATIONS: - 120-S-002-1-Z01 (WITH EWCAP-001 TYPE 120-T BLADES)
- 6) ANNUAL QUALITY REQUIREMENTS: - IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER DELPHI SPECIFICATION #AQA-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF ISO TS16949 AND SAE/USCAR-2 REV 5. FOR TERMINAL TO CONNECTOR AND TPA TO CONNECTOR ONLY.

- 120-S-002-I-Z02 (WITH EWCAP-001 TYPE 120-T BLADES)

- 7) SOURCE ID, MOLD & CAVITY ID SIGNIFIES TOOL OWNERSHIP, FOR REFERENCE
- 8) K INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.





EXPLODED VIEW

(OPTIONAL CPA SHOWN) SCALE 2:1

section B-B