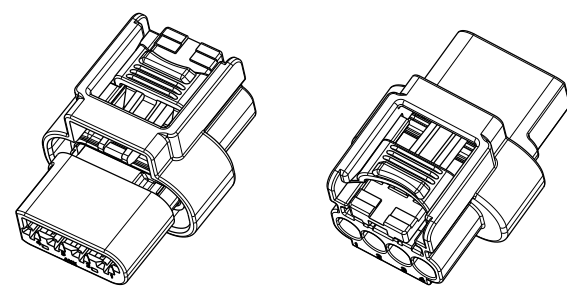
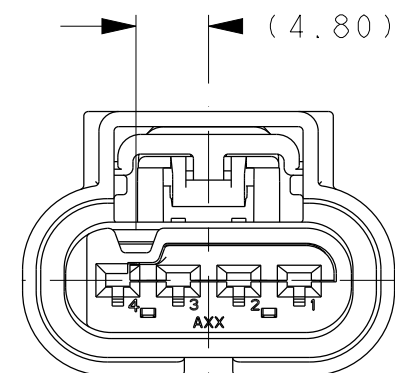


ASSEMBLY NUMBER	PCL	KEY OPTION	COLOR	MOLDED-OVER POSITIONS				INSULATOR (HOUSING)	COMPONENTS		CPA (RED) (OPTIONAL)
				1	2	3	4		TPA (BLUE)	RING SEAL (BLUE)	
F405100		A	BLACK	X	X			PA66 GF35	PA66 GF35	SILICONE	PA66 GF35
F192100		A	BLACK	X	X			F313100	F481100		F752210
F782100		A	BLACK					F971100			
F882100		B	LT GRAY					F181100	F581100		
NOT AVAILABLE		C	DK GRAY					F281100	F681100		
NOT AVAILABLE		D	BLACK					F381100	F781100	F342100	F752210
F881100		A	BLACK					F971100	F481100		
F981100		B	LT GRAY					F181100	F581100		
NOT AVAILABLE		C	DK GRAY					F281100	F681100		
NOT AVAILABLE		D	BLACK					F381100	F781100		
F095900		A	BLACK				X	F225900	F481100		

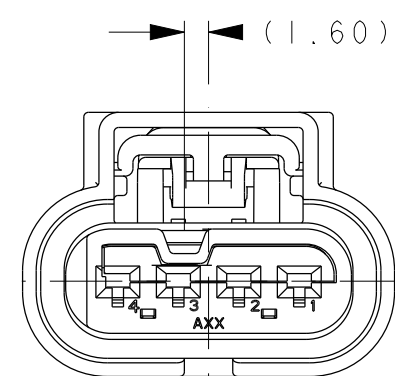
ITEM NO.	ITEM DESCRIPTION	PLATING OR COLOR	SUPPLIER	SUPPLIER COMP PART NUMBER	GRIP CODE	WIRE SIZE	INSULATION DIAMETER RANGE	MATERIAL/SPEC NO
5	1.20 SYSTEM TERMINAL	TIN	FCI	54001864	18	18-16 AWG 0.75-1.25mm ²	1.70mm-2.41mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	TIN	FCI	54002006	20	22-20 AWG 0.35-0.50mm ²	1.20mm-1.90mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	TIN/SILVER	FCI	54001866	18	18-16 AWG 0.75-1.25mm ²	1.70mm-2.41mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	TIN/SILVER	FCI	54002007	20	22-20 AWG 0.35-0.50mm ²	1.20mm-1.90mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	SILVER	FCI	F731400	18	18-16 AWG 0.75-1.25mm ²	1.70mm-2.41mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	SILVER	FCI	F931400	20	22-20 AWG 0.35-0.50mm ²	1.20mm-1.90mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	GOLD	FCI	54001863	18	18-16 AWG 0.75-1.25mm ²	1.70mm-2.41mm	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	GOLD	FCI	54002005	20	22-20 AWG 0.35-0.50mm ²	1.20mm-1.90mm	COPPER ALLOY / NA
6	1.20 SYSTEM CABLE SEAL ROUND	RUST RED	FCI (QSR)	C528010 (A-0419)	-	18-16 AWG 1.00-1.25mm ²	1.90mm-2.41mm	SILICONE
	1.20 SYSTEM CABLE SEAL ROUND	BLUE	FCI (QSR)	54200391 (A-0131)	-	22-20 AWG 0.50-0.75mm ²	1.40mm-1.90mm	SILICONE
	1.20 SYSTEM CABLE SEAL ROUND	TAN	FCI (QSR)	C073510 (A-0419B)	-	0.35mm ²	1.20mm-1.40mm	SILICONE
	1.20 SYSTEM SEAL PLUG	GREEN	FCI (QSR)	C628010 (A-0412)	-	-	-	SILICONE



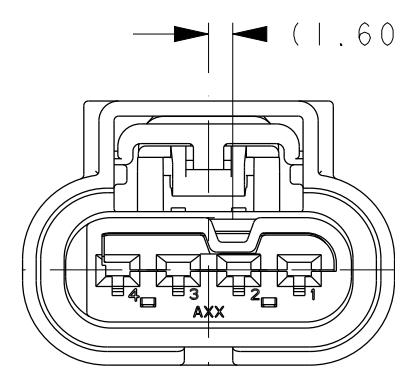
ISOMETRIC VIEW
SCALE 1:1



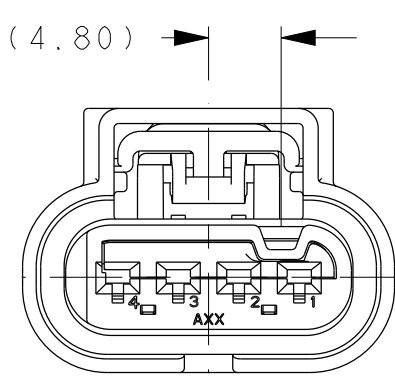
KEY A
SCALE 2:1



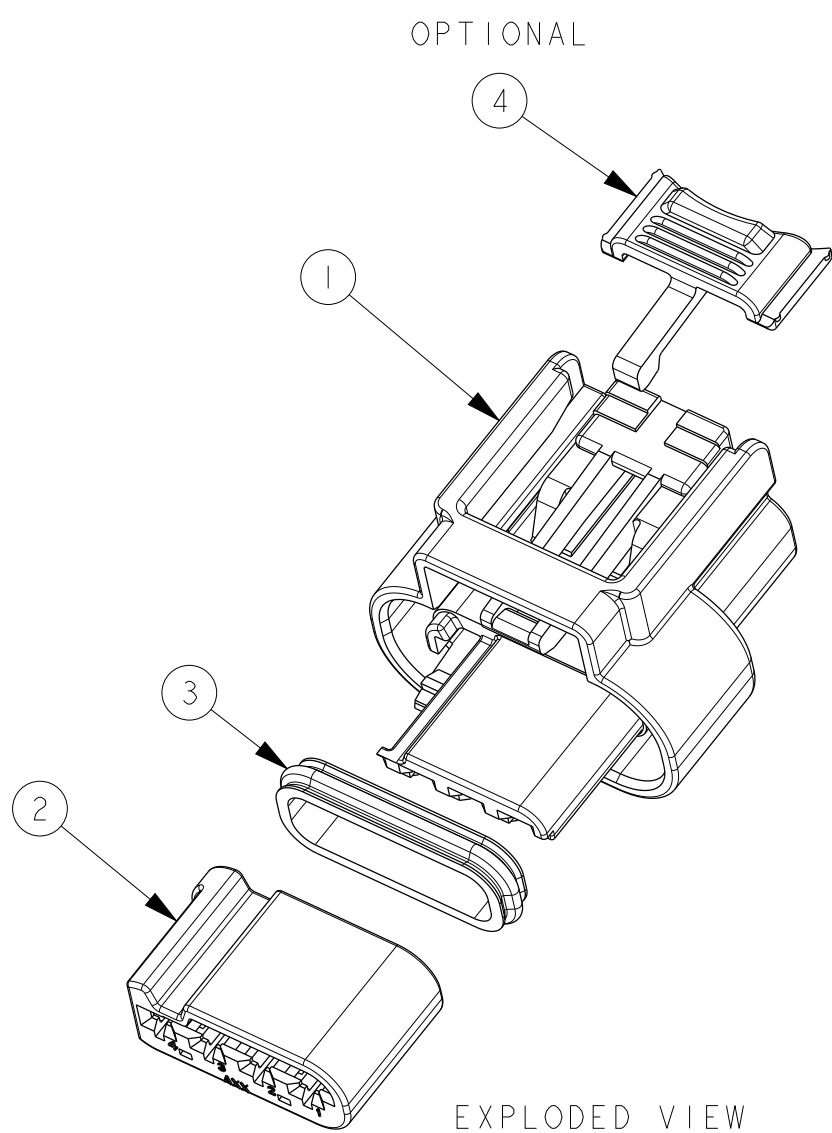
KEY B



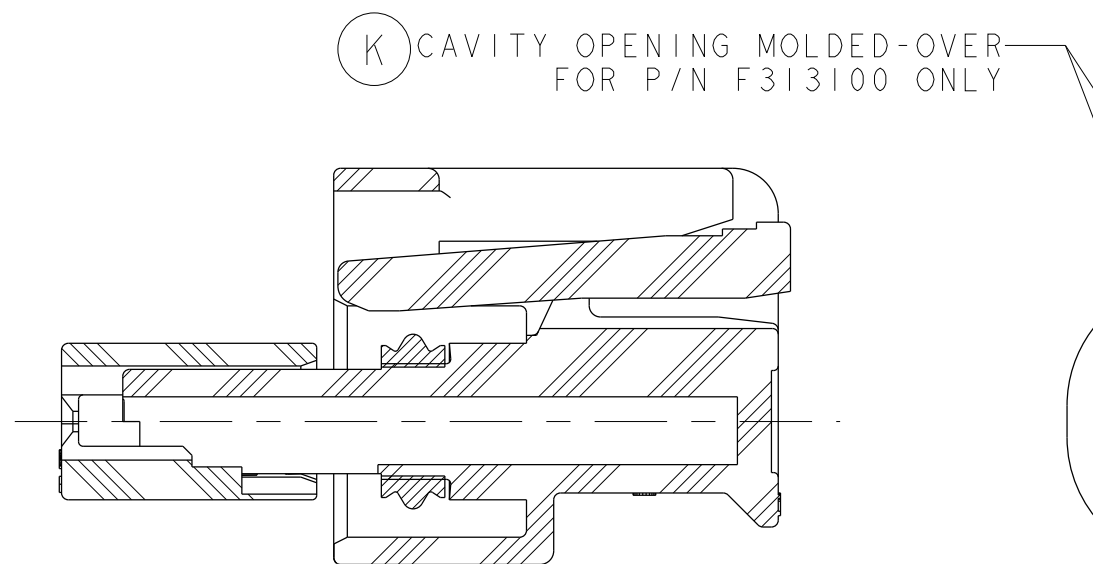
KEY C



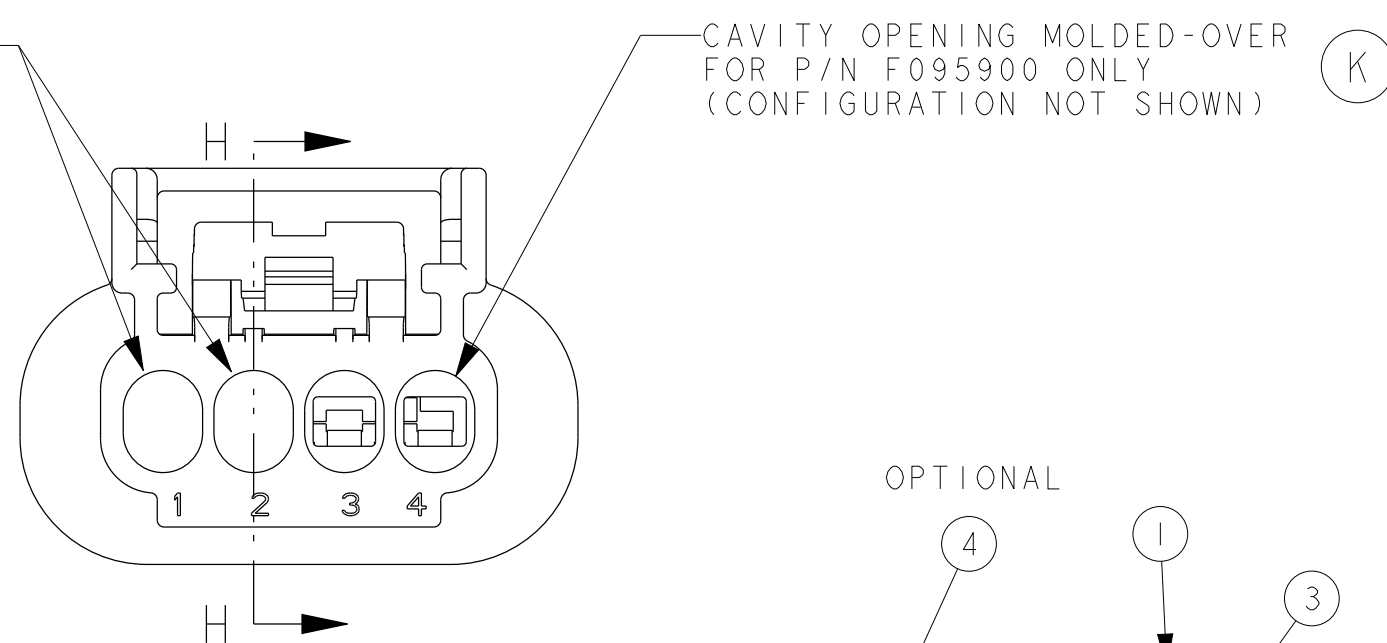
KEY D



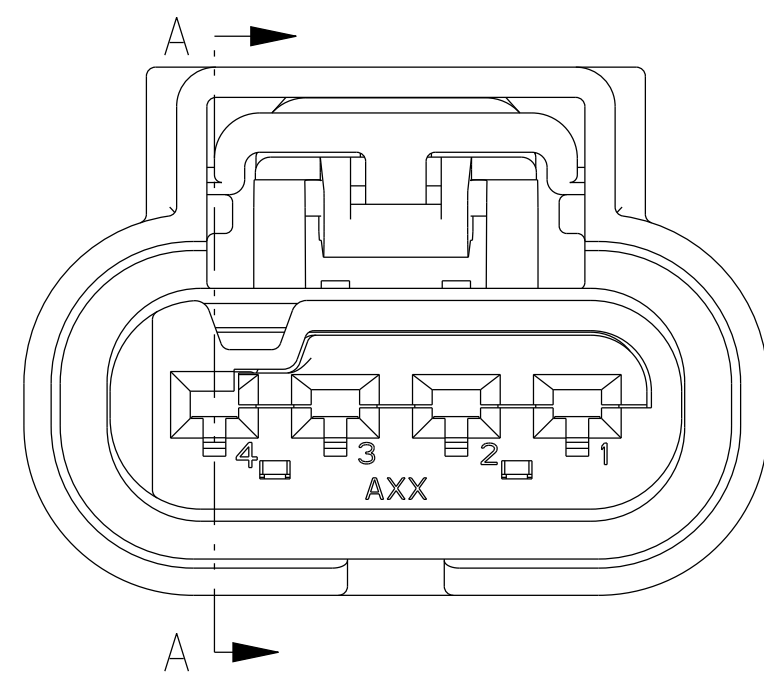
EXPLODED VIEW
SCALE 2:1



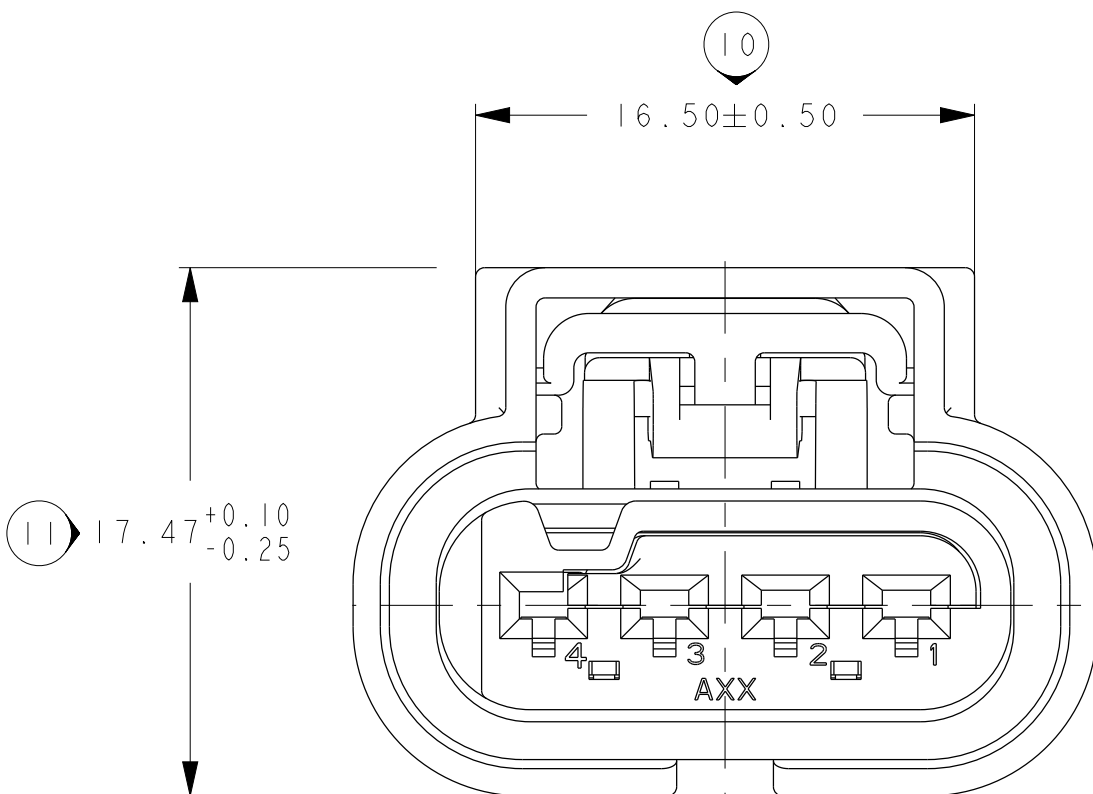
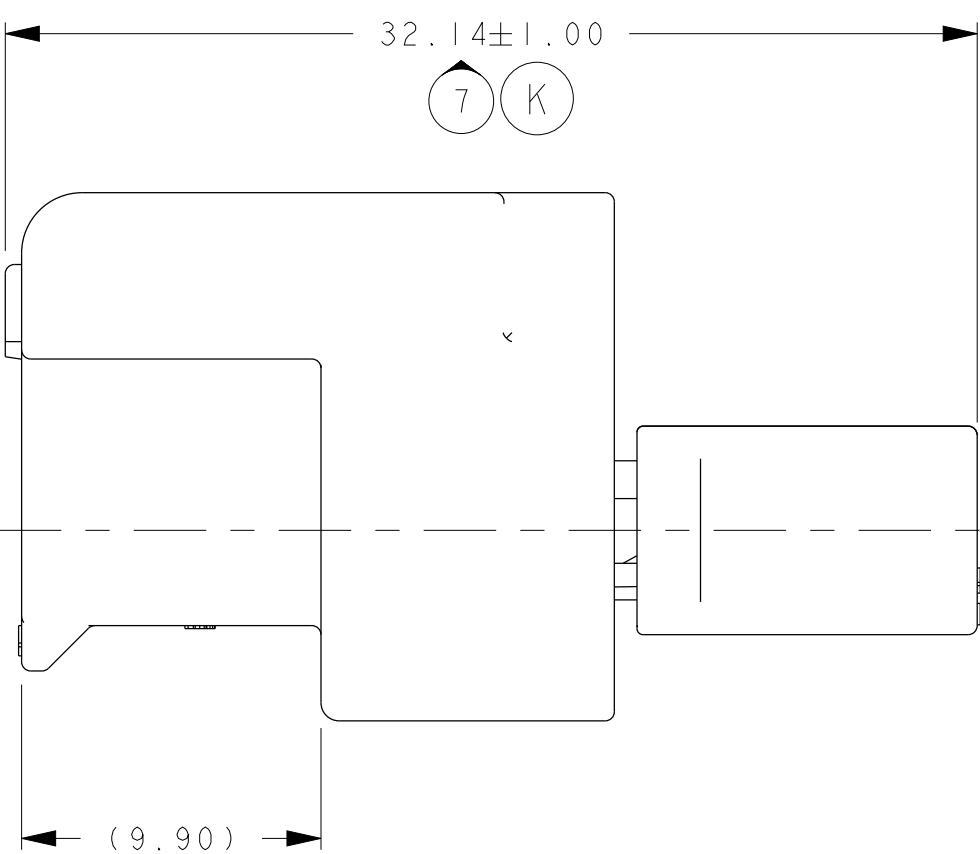
SECTION H-H



SECTION A-A
SCALE 4.000



(8) (ASSEMBLY DATE CODE APPLIED IN THIS LOCATION)



NOTES:

- VALIDATED TO SAE/USCAR-2 REV 5 WITH THE FOLLOWING EXCEPTION(S):
 - SECTION 5.4.2 (Connector-Connector Mating/Unmating Force) >95N (UN-MATING FORCE)
- 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 (150°C) WITH GOLD OR SILVER TERMINALS
 - SAE/USCAR-2 V3 T3 (125°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 EQUIVALENT)
- CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
 - FCI APEX 1.2 TERMINALS LISTED IN THE APPLICABLE COMPONENTS CHART ON THIS DRAWING WITH WIRE SIZES DEFINED IN NOTE 4.
 - SEE FCI DRAWING C18001-1-2-CUST FOR SPECIFIC TERMINAL DETAILS AND CRIMPING REQUIREMENTS
 - PLATING OF TERMINALS AND MATING DEVICE BLADES MUST BE COMPATIBLE
- 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: MIL-123-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
TYPE/STANDARD: FLR2X, FLR9X OR EQUIVALENT (STRUCTURE AND PROPERTIES ACCORDING TO ISO 6722)

CONTACT FCI ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND/OR TYPES

WIRE AND INSULATION TYPE MUST BE APPROPRIATE FOR TEMPERATURE CLASS & APPLICATION ENVIRONMENT

- CONNECTOR IS MATE COMPATIBLE WITH DEVICES WHICH CONFORM WITH THE FOLLOWING USCAR INTERFACE SPECIFICATIONS:
 - 120-S-004-1-Z01 (WITH EWCAP-001 TYPE 120-T BLADES)
 - 120-S-004-1-Z02 (WITH EWCAP-001 TYPE 120-T BLADES)
- ANNUAL QUALITY REQUIREMENTS:
 - IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER FCI 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.
- SOURCE ID, MOLD & CAVITY ID SIGNIFIES TOOL OWNERSHIP, FOR REFERENCE
- (K) INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.

ECN-12-01304	APP CHRT	ADD 0.35 CABLE SEAL C073510, ADD 0.35mm ² AND 22 AWG WIRE
	PART BOM	KEY OPTION C WAS BROWN, KEY OPTION D WAS DK GRAY
	NOTES	CORRECT AND REVISE NOTE 4
1200612	CHARTS	RE-ACTIVATE PART NUMBERS F405100, F782100 AND F882100
	CHARTS	CPA PART NUMBER F752210 WAS 54200016
	CHARTS	REVISED "APPLICABLE COMPONENTS CHART"
	NOTES	REVISED NOTE 4
11899	CHARTS	REVISED "APPLICABLE COMPONENTS" CHART
11835	CHARTS	ADDED ASM NUMBER F095900, REVISED "APPLICABLE COMPONENTS" CHART, REVISED NOTE #5
11765	CHARTS	REVISED "APPLICABLE COMPONENTS" CHART, MOVED KEY VIEWS, NOTES REVISED
	NOTES	DRAWING NUMBER PCC0546721 WAS PC10546721
10454	CHARTS	REVISED CHART, ADDED "APPLICABLE COMPONENTS" CHART, KEYS C&D "NOT AVAILABLE"
		ADDED DIMENSION BALLOONS
	KEY(S)	REFERENCE DIMS WERE DIMENSIONS WITH TOLERANCE (#12,#13,#14,#15)
	B12,C15	17.42±0.10/-0.25 WAS 17.42 (#11), 32.15±1.00 WAS 32.15 (#7)
	G11	DIMENSION 24.5 (#9) MOVED TO NEW VIEW & TARGETS ADDED
	C11	16.50±0.50 WAS 16.50 (#10)
	NOTES	ADDED QUALITY ASSURANCE REQUIREMENTS (DIAMOND), "K" NOTE, & CONN-CONN REMOVAL FORCE
10140		RELEASE FOR PRODUCTION
ECN NO.	ZONE	CHANGE DESCRIPTION
PRODUCT SPEC.	PACKAGING SPEC.	APPLICATION SPEC.
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TOLERANCES	±0.1	±2*
CONTRACTOR N.		
DO NOT MEASURE DRAWING		
DATE		
NAME		
TITLE		
CREATED BY	200711102	Maheshwari P
MODIFIED BY	201310102	Maheshwari P
CHECKED BY	201310102	Robert BAUMAN
APPROVED BY	201310102	Frank HOLUB
FILE NAME	PCC0546721	DOCUMENT UNDER PDS CONTROL NO MODIFICATION ALLOWED OUTSIDE
DRAWING NUMBER	REV.	APPROVAL LEVEL
PCC0546721	G	
STATE		
PART NUMBER		
REV.		
See Table		
SCALE	3.000	

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