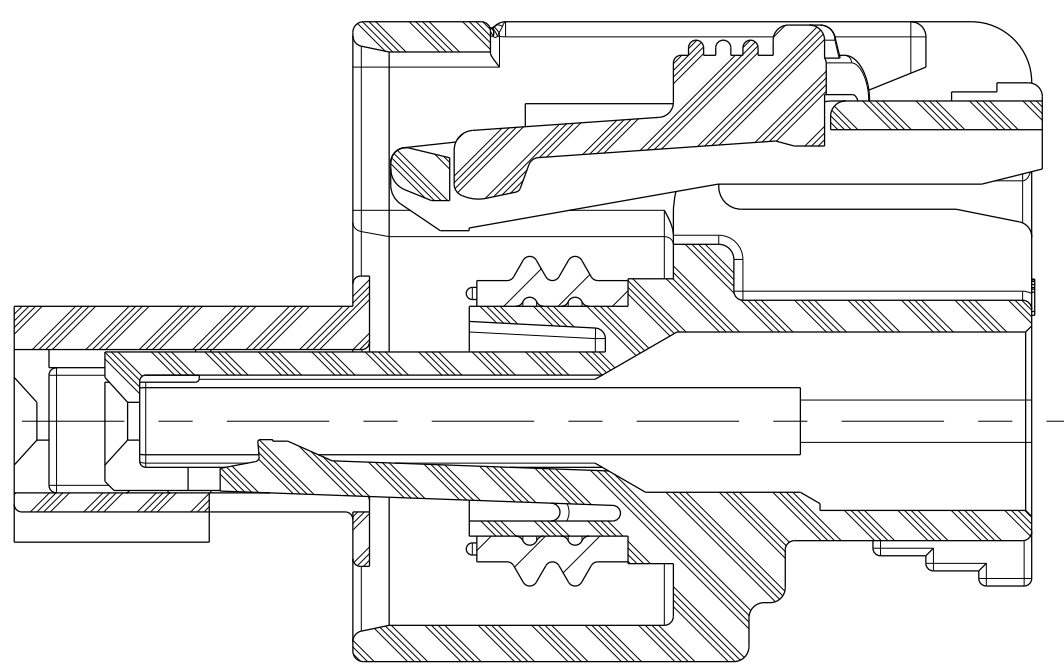


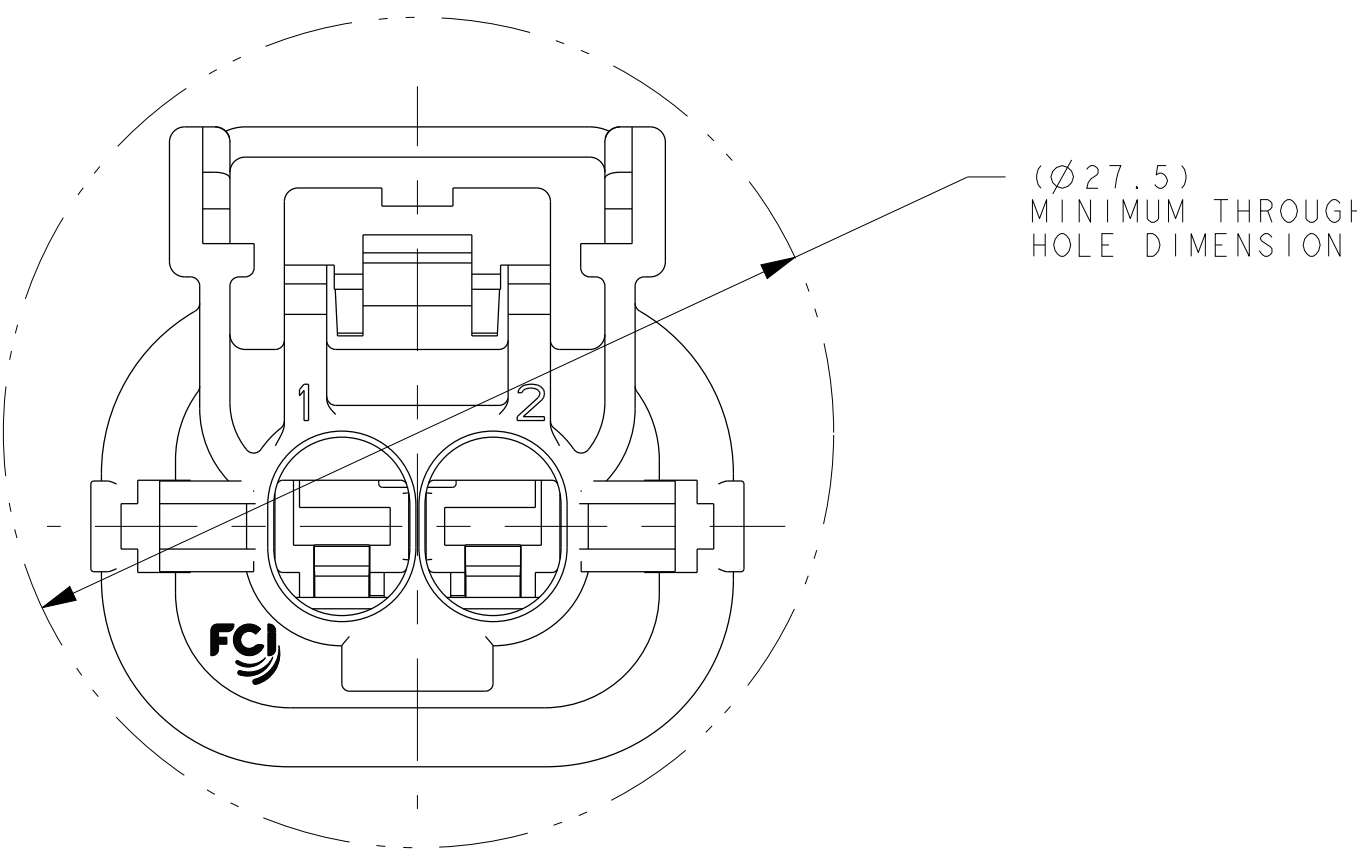
Doc ID: 112-0318

ASSEMBLY NUMBER	KEY OPTION	ITEM 1 HOUSING PA66 GF35	ITEM 2 TPA	ITEM 3 RING SEAL	ITEM 4 CPA
		FCI PART NUMBER	COLOR FCI PART NUMBER	FCI PART NUMBER	FCI PART NUMBER
F019300	A	S629300	DK GREY F645000	F646000 BURNT ORANGE	NO
F119300	B		DK BLUE F436000		
TBD	C		TBD		
TBD	D		TBD		
F809800	A		DK GREY F645000		F752210 RED
F909800	B		DK BLUE F436000		
TBD	C		TBD		
TBD	D		YBD	TBD	

APPLICABLE COMPONENTS								
ITEM NO.	ITEM DESCRIPTION	PLATING OR COLOR	SUPPLIER	SUPPLIER COMP PART NUMBER	GRIP CODE	WIRE SIZE	WIRE INSULATION DIAMETER RANGE	MATERIAL/SPEC NO
5	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001840	18	20-18 AWG 0.50-1.00mm ²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001432	14	16-14 AWG 1.50-2.50mm ²	2.18mm-3.00mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001879	18AU	20-18 AWG 0.50-1.00mm ²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001448	14AU	16-14 AWG 1.50-2.50mm ²	2.18mm-3.00mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001807	18	20-18 AWG 0.50-1.00mm ²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001404	14	16-14 AWG 1.50-2.50mm ²	2.18mm-3.00mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001811	18AU	20-18 AWG 0.50-1.00mm ²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001410	14AU	16-14 AWG 1.50-2.50mm ²	2.18mm-3.00mm	COPPER ALLOY / NA
6	2.80mm SYSTEM CABLE SEAL ROUND	GREEN	FCI (QSR)	F676000	-	20-18 AWG 0.50-1.00mm ²	1.40mm-2.13mm	SILICONE
	2.80mm SYSTEM CABLE SEAL ROUND	BLUE	FCI (QSR)	F576000	-	16-14 AWG 1.50-2.0mm ²	2.18mm-2.80mm	SILICONE
	2.80mm SYSTEM CABLE SEAL ROUND	YELLOW	FCI	60994034	-	2.5mm ²	2.70mm-3.00mm	SILICONE
7	2.80mm SYSTEM CAVITY PLUG ROUND	WHITE	DELPHI	15305170	-	-	-	SILICONE

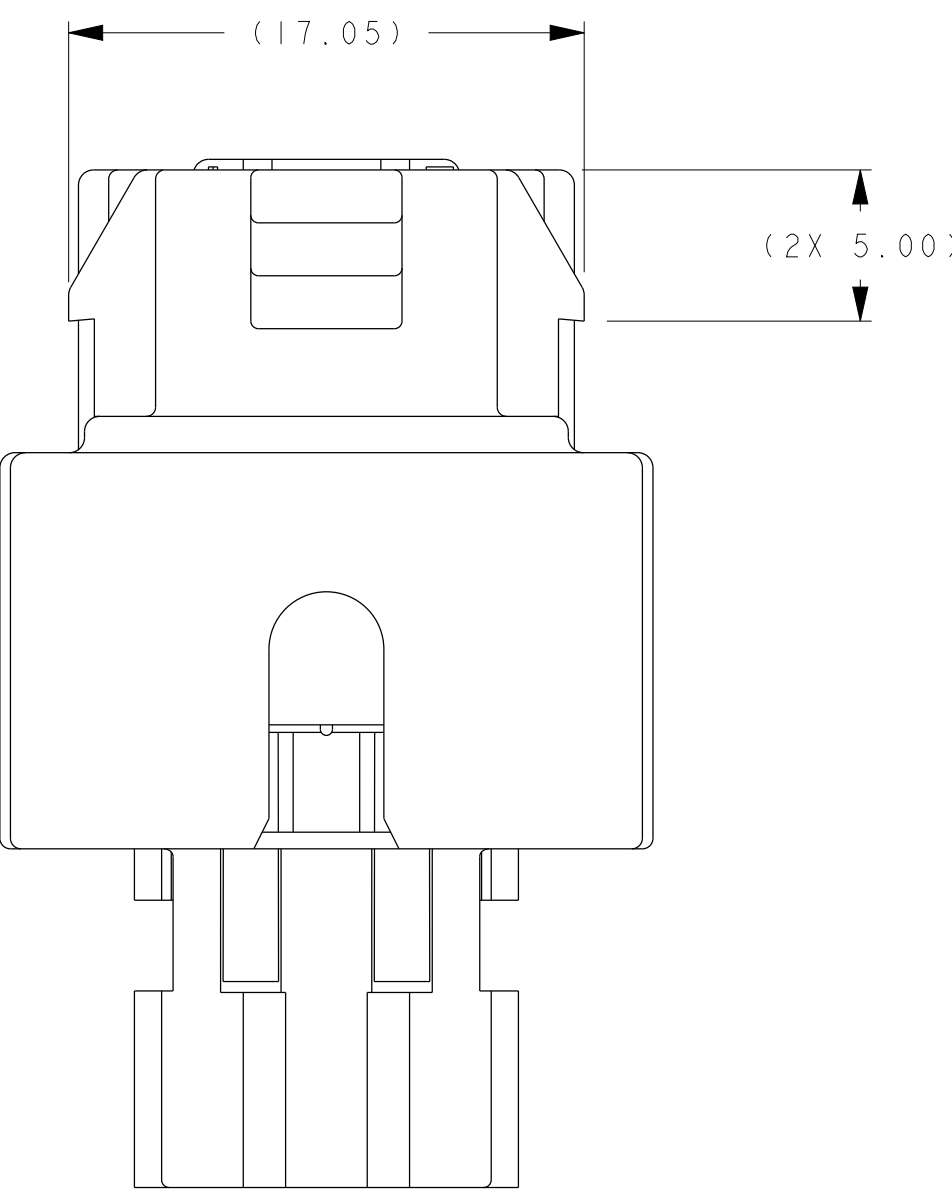


SECTION A-A
SHOWN WITH OPTIONAL CPA



(Ø27.5)
MINIMUM THROUGH
HOLE DIMENSION

OPTIONAL: ASSEMBLY NUMBER, DATE CODE AND
MACHINE NUMBER THIS LOCATION-SEE NOTES



NOTES:

- 1) VALIDATED TO SAE/USCAR-2 REV 5
- 2) VALIDATED TO THE FOLLOWING TEMP, VIBRATION, AND SEALING CLASSES:
 - SAE/USCAR-2 V3 T3 (125°C) WITH GOLD TERMINALS
 - SAE/USCAR-2 SEALING S3 T3 (125°C)(ISO16750 9K EQUIVALENT)
- 3) CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
 - FCI APEX 2.8 TERMINALS LISTED IN THE APPLICABLE COMPONENTS CHART ON THIS DRAWING WITH WIRE SIZES DEFINED IN NOTE 4.
 - SEE FCI DRAWING CI5004-CUST FOR SPECIFIC TERMINAL DETAILS AND CRIMPING REQUIREMENTS
 - PLATING OF TERMINALS AND MATING DEVICE BLADES MUST BE COMPATIBLE SEE NOTE 5
 - EXCESSIVELY THICK TIN PLATING ON DEVICE BLADES IS NOT RECOMMENDED
- 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: 20AWG - 14AWG
 - INSULATION DIAMETER: 1.70mm MIN - 2.77mm MAX
 - WIRE TYPE: MIL-123-A, MS-8288 OR EQUIVALENT (STRUCTURE AND PROPERTIES ACCORDING TO SAE J1128)
 - METRIC - WIRE SIZE: 0.50mm² - 2.50mm²
 - INSULATION DIAMETER: 1.40mm MIN - 3.00mm MAX
 - WIRE TYPE: FLR2X-A 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

- 5) CONNECTOR IS MATE COMPATIBLE WITH DEVICES CONFORMING WITH THE FOLLOWING INTERFACE SPECIFICATIONS:
 - FORD DWG 8U5T-14A464-GAC SHEET 2 (PREFERRED)
 - BOSCH DWG 1928S00000 VARIANT A
 - GM DWG 13115604

FOR CONSTRUCTION OF NEW DEVICES, FORD DWG 8U5T-14A464-GAC SHEET 2 IS RECOMMENDED

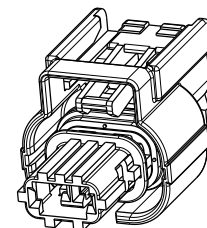
NOTE: EXCESSIVELY THICK TIN PLATING ON DEVICE BLADES IS NOT RECOMMENDED. SEE EWCAP-001 (280-T001) BLADE SPECIFICATION FOR PREFERRED PLATING

DEVICE SUPPLIERS RESPONSIBLE FOR VALIDATING PERFORMANCE OF DEVICE TO SAE/USCAR-2 REV 5

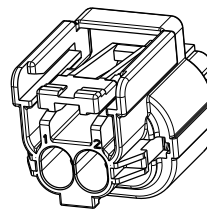
- 6) ANNUAL QUALITY REQUIREMENTS:
 - IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER FCI SPECIFICATION #A0A-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF ISO TS16949 AND SAE/USCAR-2 REV 5. FOR TERMINAL TO CONNECTOR AND TPA TO CONNECTOR ONLY.

- 7) SOURCE ID, MOLD & CAVITY ID SIGNIFIES TOOL OWNERSHIP, FOR REFERENCE

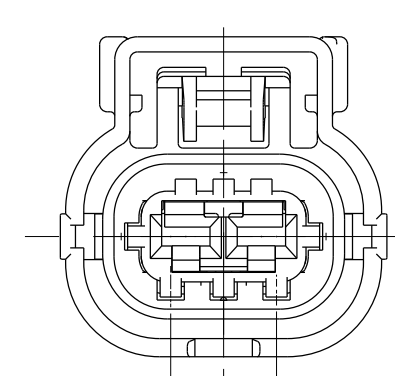
- 8) (K) INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.



SCALE 1:1

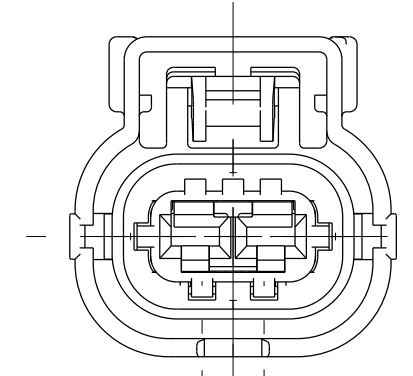


SCALE 1:1



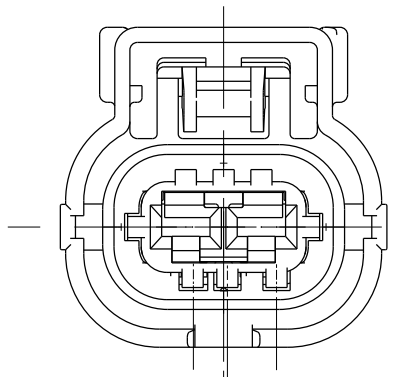
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KEY A (G)



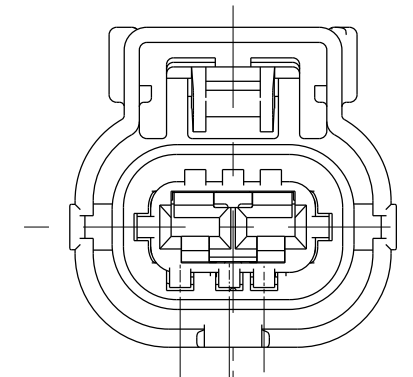
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KEY B (G)



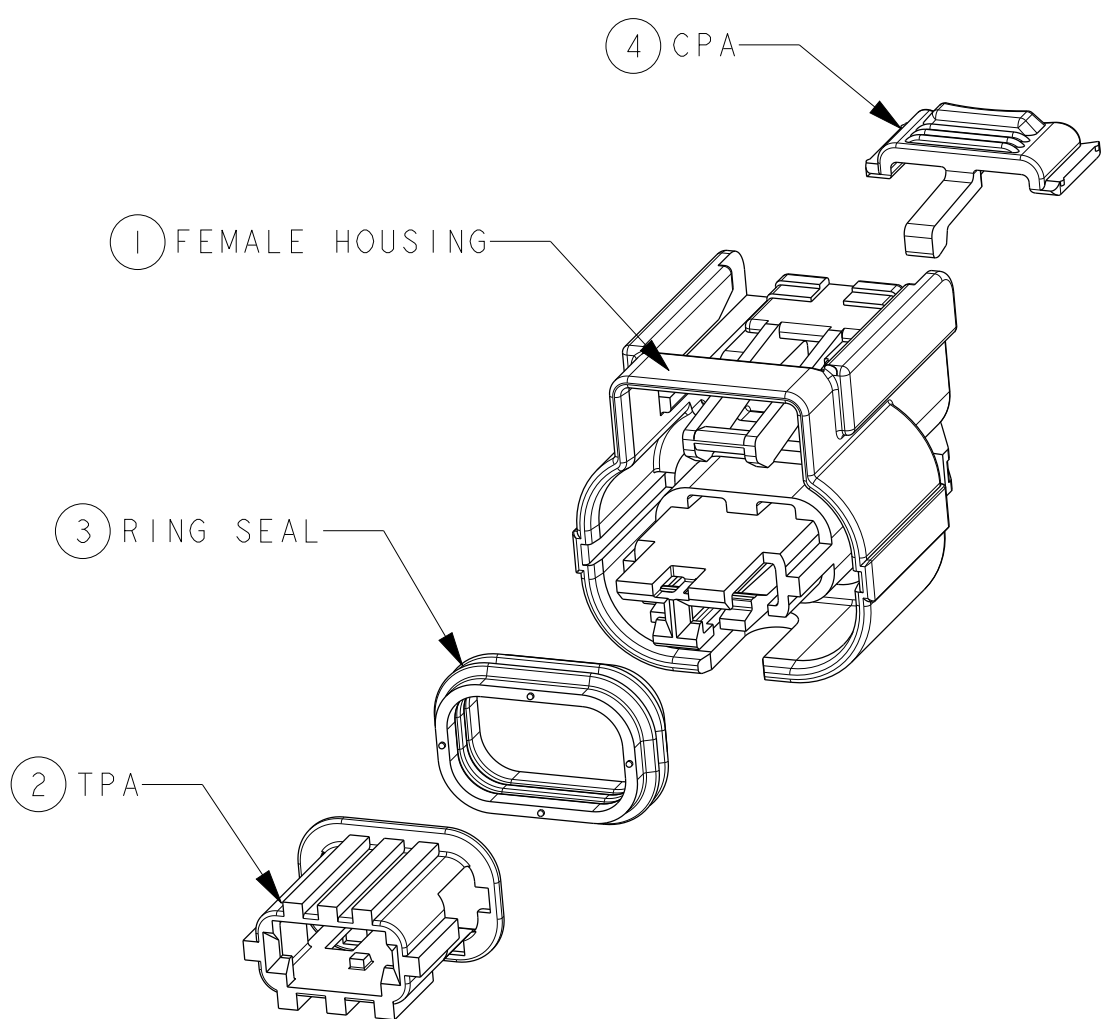
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(2.00) (3.50)

KEY C (G)

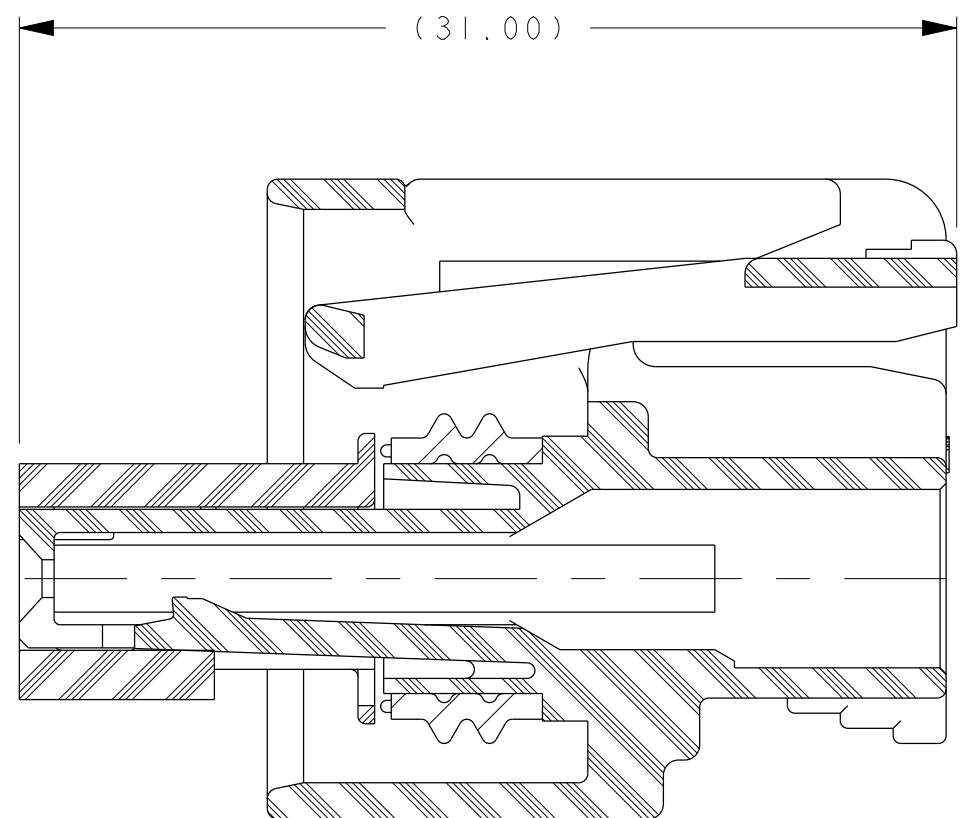


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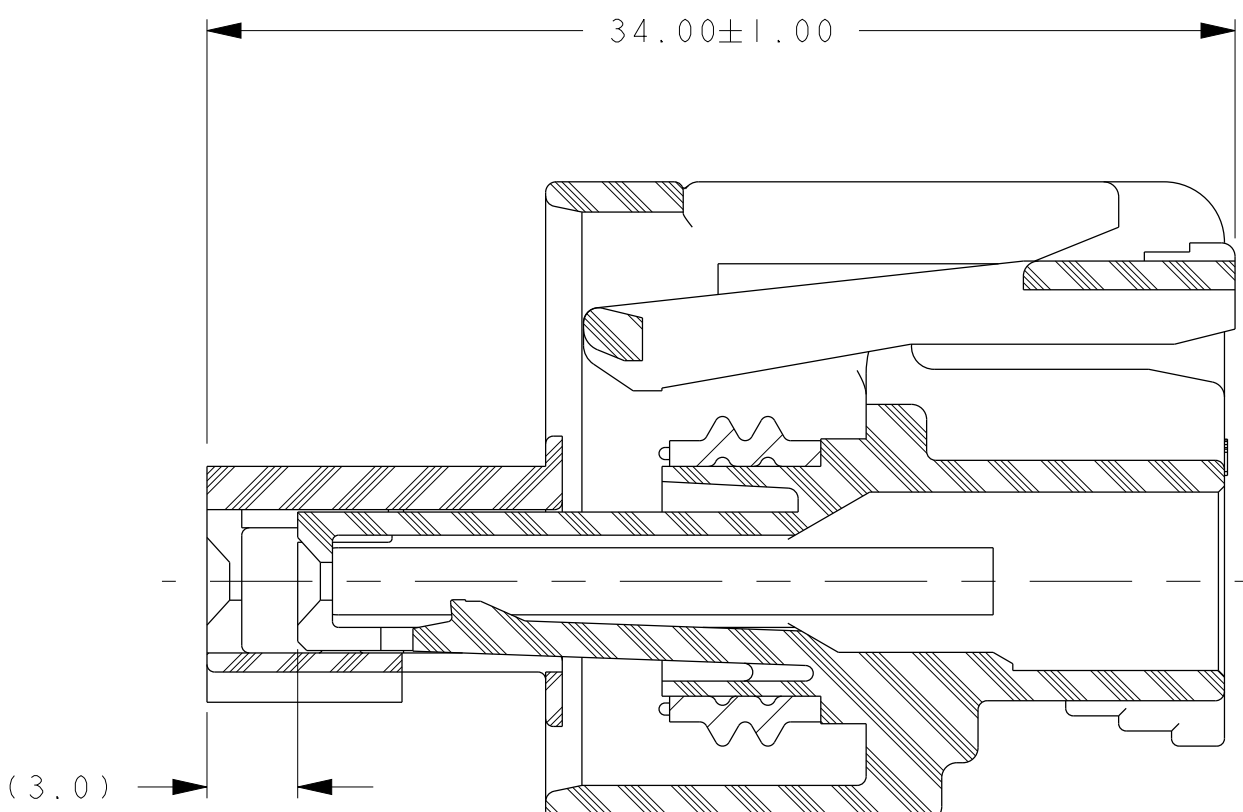
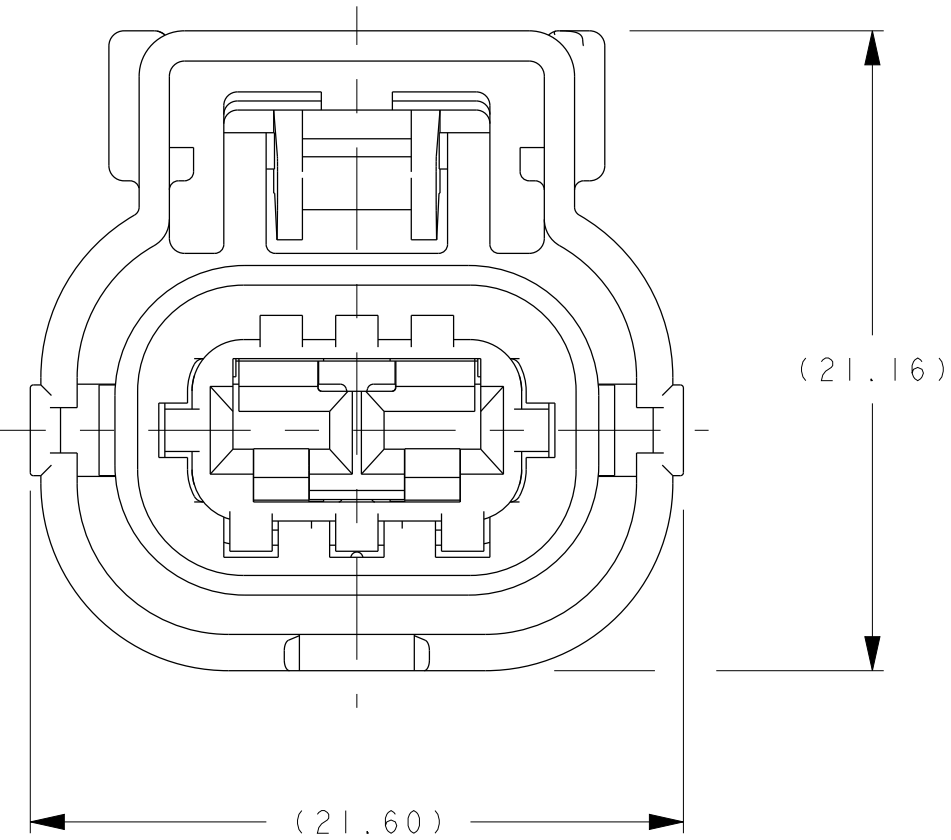
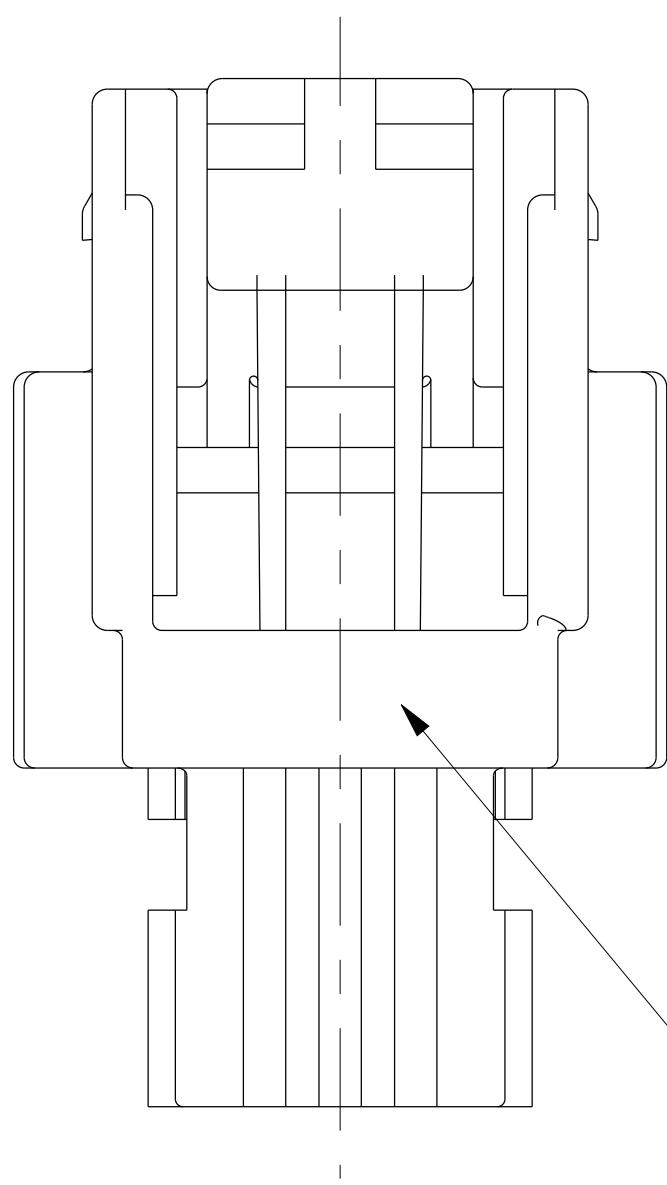
KEY D (G)



SCALE 2.000



SECTION A-A
TPA SHOWN IN FINAL LOCK POSITION



SECTION A-A
TPA SHOWN IN PRE-LOCK POSITION

(K)

112-0318 AP CHART ADD 0.5mm ² WIRE, REVISE WIRE SIZE COLUMN, REVISE INSUL. O.D. COLUMN				NOTES: REVISE NOTE 4 WITH 0.5mm WIRE INFO			
1200130 AP CHART CORRECTED WIRE INSULATION DIA RANGE FOR F576000; 2.18mm-2.80mm was 2.18mm-2.77mm				NEW RELEASE - RELEASED AT REV B			
1200532				NEW RELEASE - RELEASED AT REV B			
ECN NO.		ZONE		CHANGE DESCRIPTION			
PROJECT SPEC		PACKAGING SPEC		APPLICATION SPEC		THIS DRAWING AND ALL OTHER INFORMATION CONTAINED HEREIN IS PROPRIETARY AND THE PROPERTY OF FCI. THIS DRAWING MAY NOT BE COPIED, REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE EXPRESSED WRITTEN PERMISSION OF FCI. FCI-FCI-010000	
TOLERANCES		±0.1	±0.2	MATERIAL:		SEE TABLE	
COORDINATE						SEE TABLE	
DO NOT REUSE DRAWING		DATE		NAME		DATE	
CREATED BY		DATE		NAME		DATE	
MODIFIED BY		DATE		NAME		DATE	
DESIGNED BY		DATE		NAME		DATE	
APPROVED BY		DATE		NAME		DATE	
FILE NAME		PCC0605490		DOCUMENT UNDER PDS CONTROL. NO MODIFICATION ALLOWED OUTSIDE			
DRAWING NUMBER		REV.		APPROV.		DATE	
PCC0605490		D					
STATE		SERIAL RELEASED		SHEET			
PART NUMBER		REV.		DATE			
PCC0605490		See Table				SCALE 4.000	