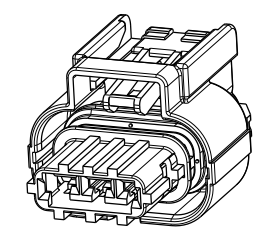
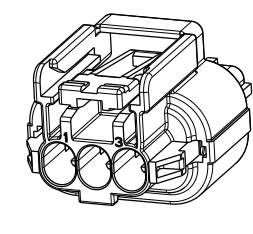


ASSEMBLY NUMBER	KEY OPTION	ITEM 1 HOUSING PA66 GF35	ITEM 2 TPA	ITEM 3 RING SEAL	ITEM 4 CPA
		FCI PART NUMBER	COLOR FCI PART NUMBER	FCI PART NUMBER	FCI PART NUMBER
F258300	A	S546300	DK GREY F055000	F546000 GREEN	NO
F593500	A		AQUA S643500		
F358300	B		NATURAL F138400		
F832210	C		DK GREY S632210		
F932210	D		BLACK S732210		
F731210	A		DK GREY F055000		F752210
F007400	B		DK BLUE F366000		
F242210	C		DK GREY S632210		
F342210	D		BLACK S732210		

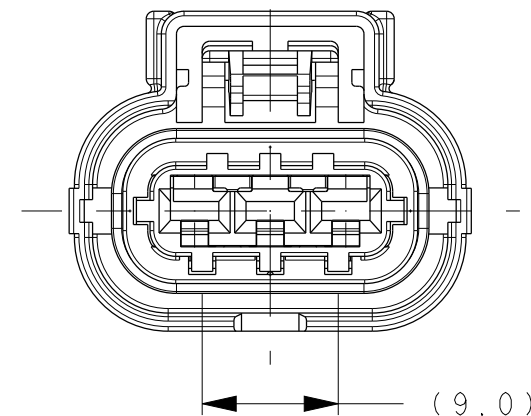
APPLICABLE COMPONENTS								
ITEM NO.	ITEM DESCRIPTION	PLATING OR COLOR	SUPPLIER	SUPPLIER COMP PART NUMBER	GRIP CODE	WIRE SIZE	WIRE INSULATION DIAMETER RANGE	MATERIAL/SPEC NO
5	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001840	18	20-18 AWG 0.50-1.00mm ²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED 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 (QSR)	60994034	-	2.5mm ²	2.70mm-3.00mm	SILICONE
7	2.80 SYSTEM CAVITY PLUG ROUND	WHITE	DELPHI	15305170	-	-	-	SILICONE



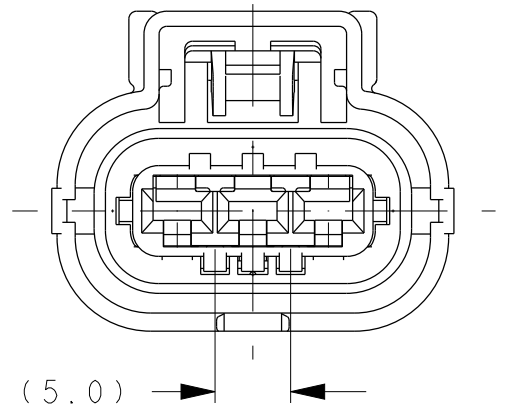
SCALE 1:1



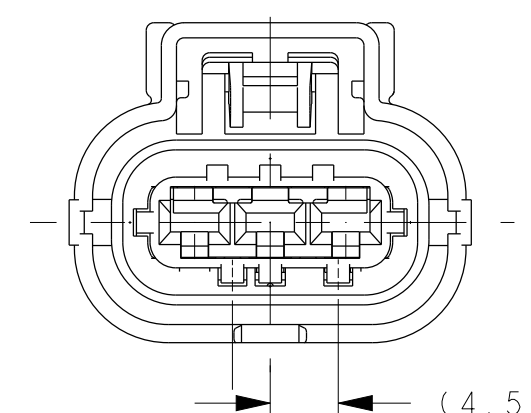
SCALE 1:1



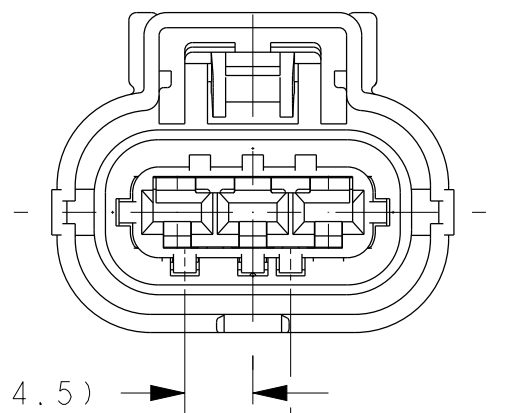
KEY A



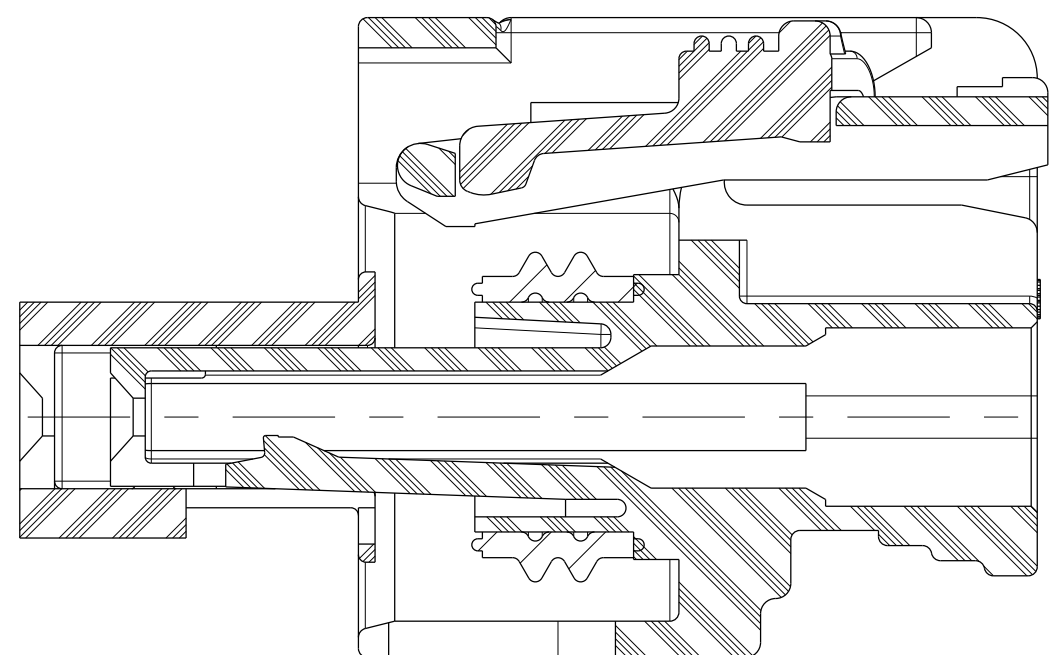
KEY B



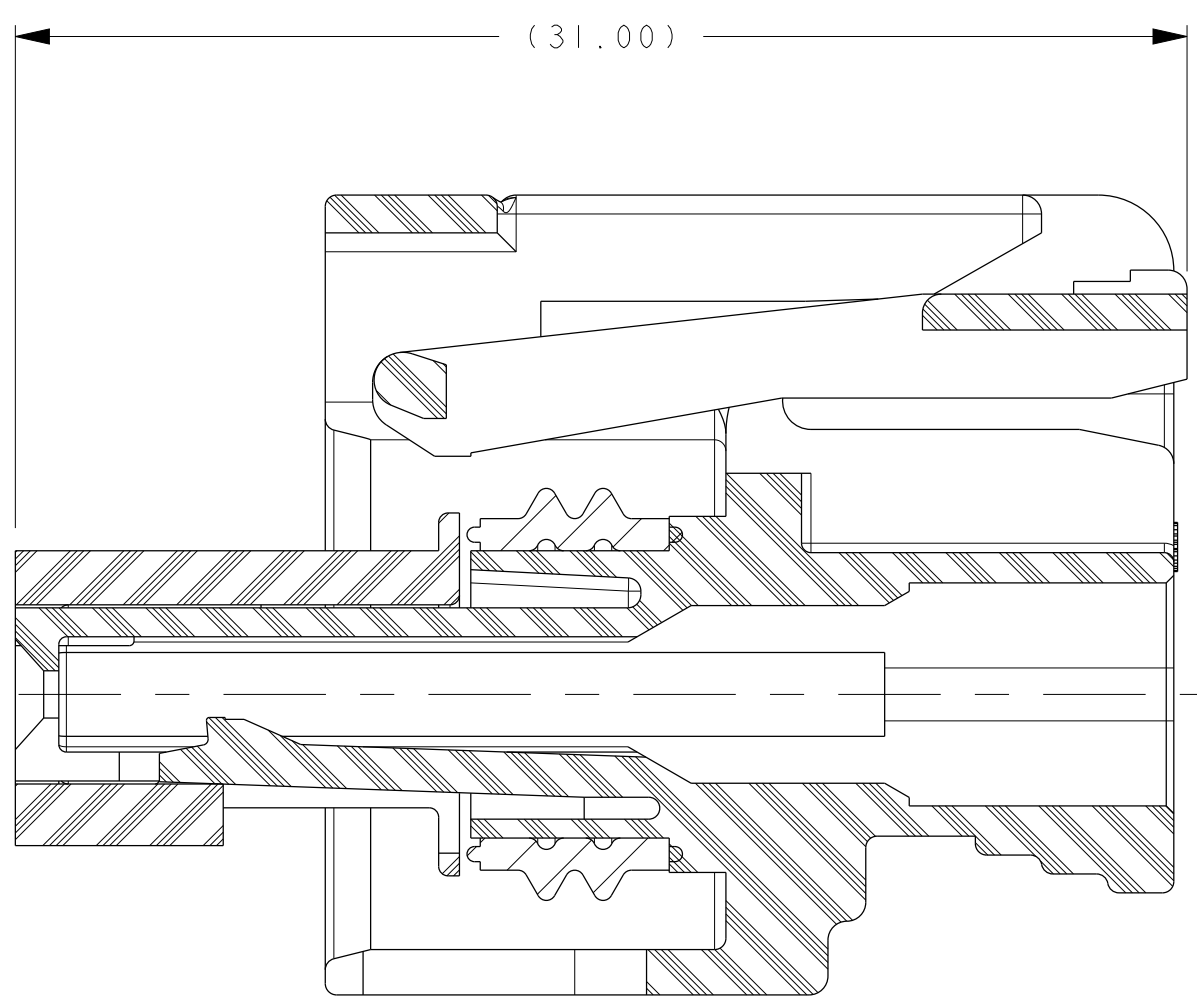
KEY C



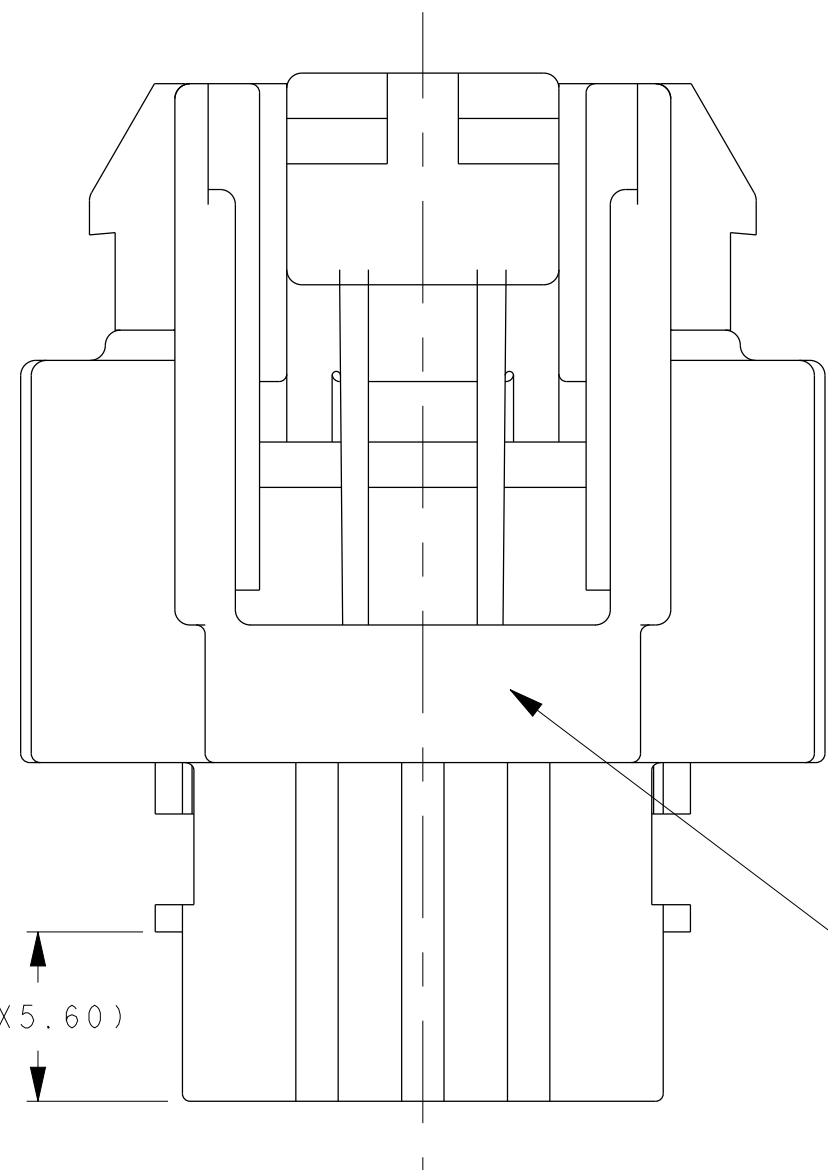
KEY D



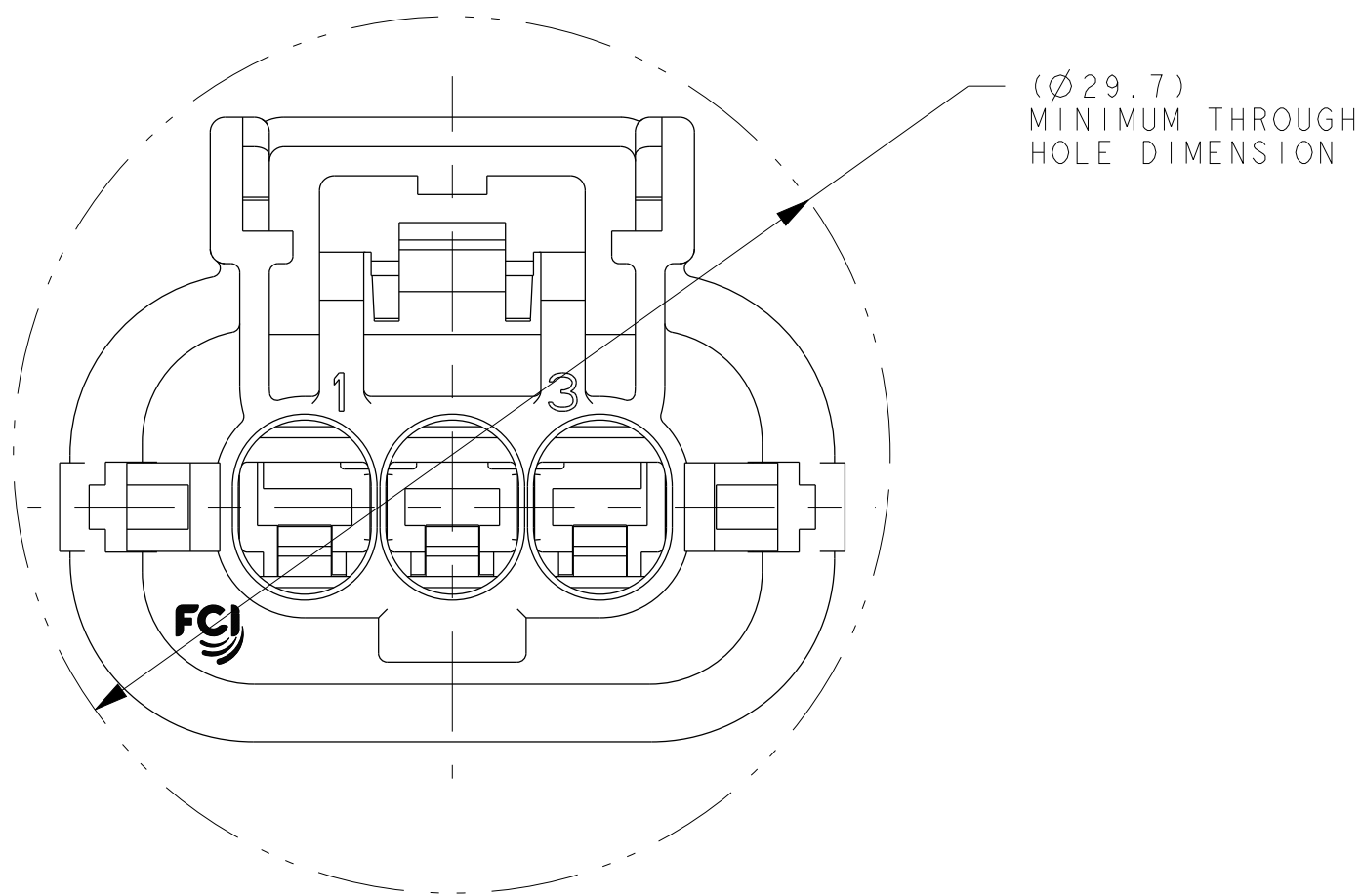
SECTION A-A
SHOWN WITH OPTIONAL CPA



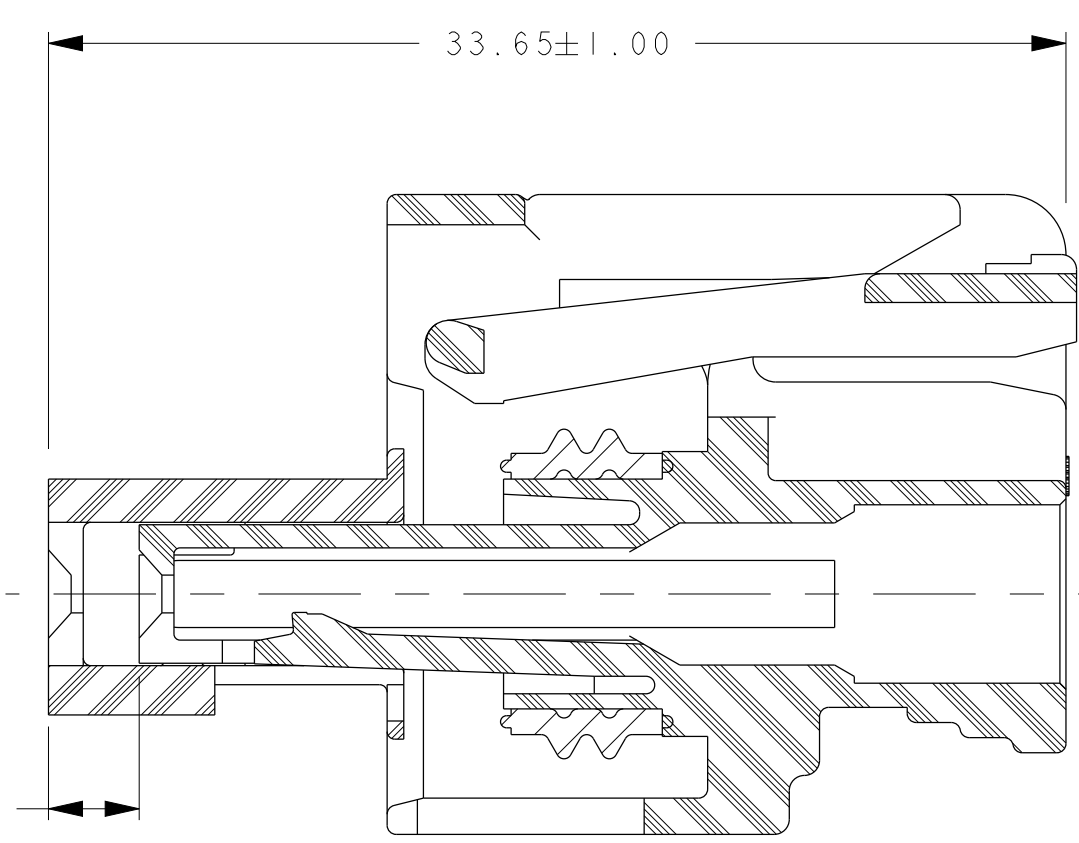
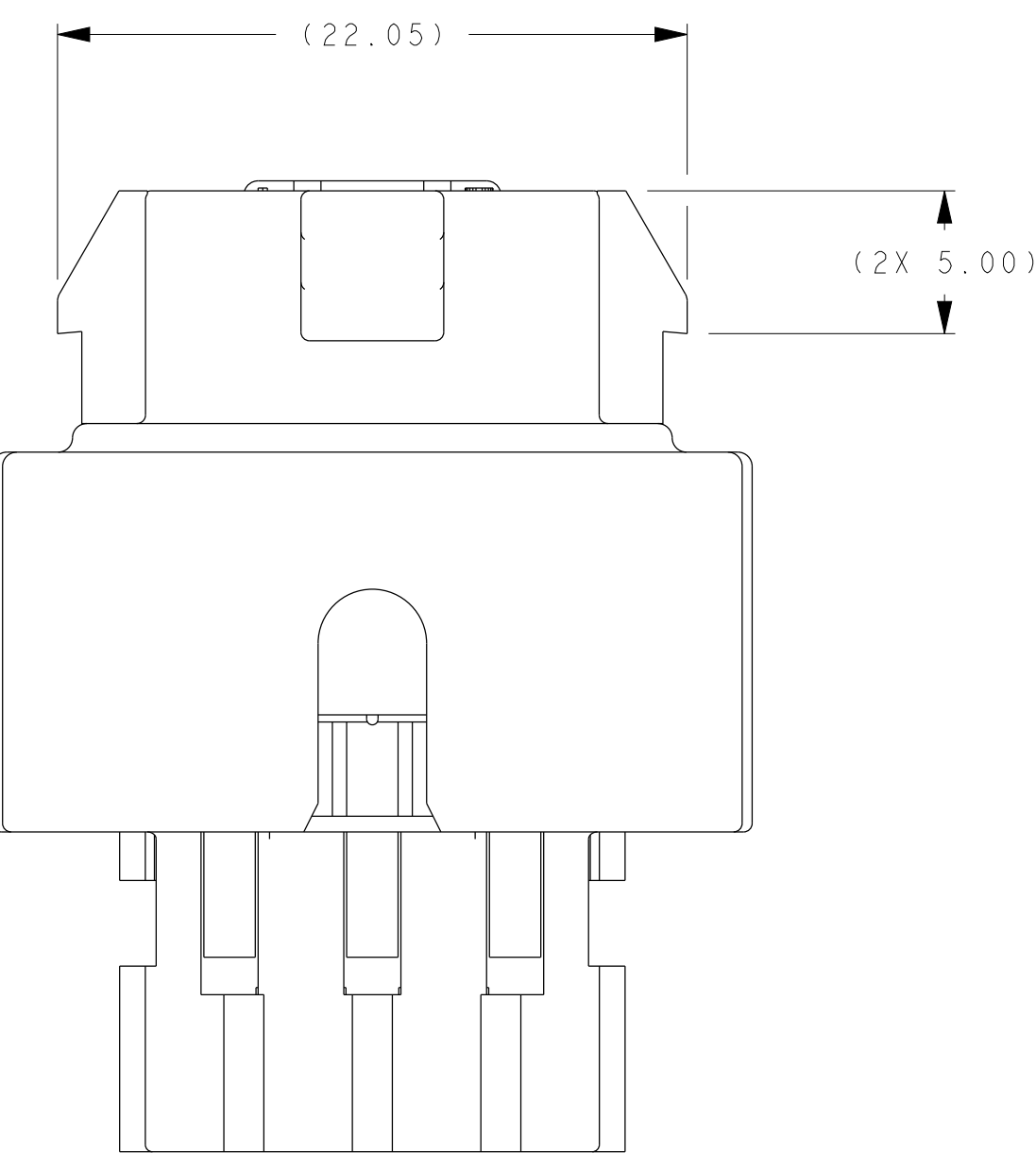
SECTION A-A
TPA SHOWN IN FINAL LOCK POSITION



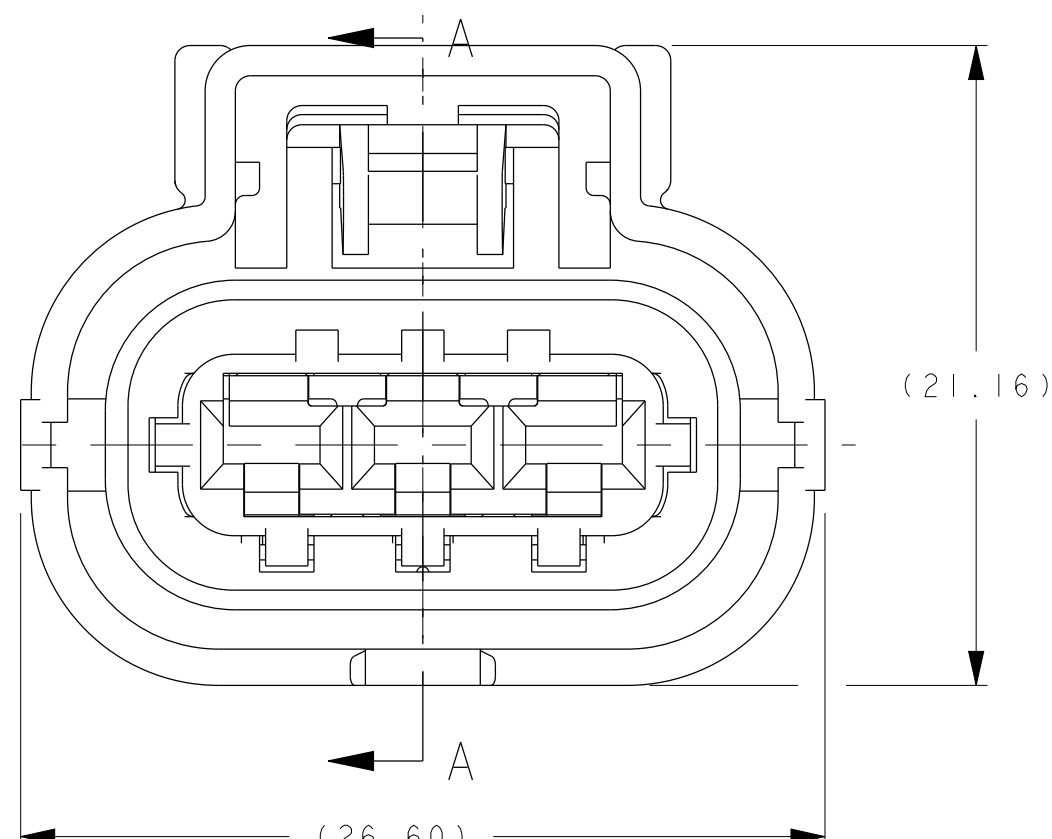
OPTIONAL CONSTRUCTION
TPA WITH SHORT RIB



(Ø29.7)
MINIMUM THROUGH
HOLE DIMENSION



SECTION A-A
TPA SHOWN IN PRE-LOCK POSITION



NOTES:

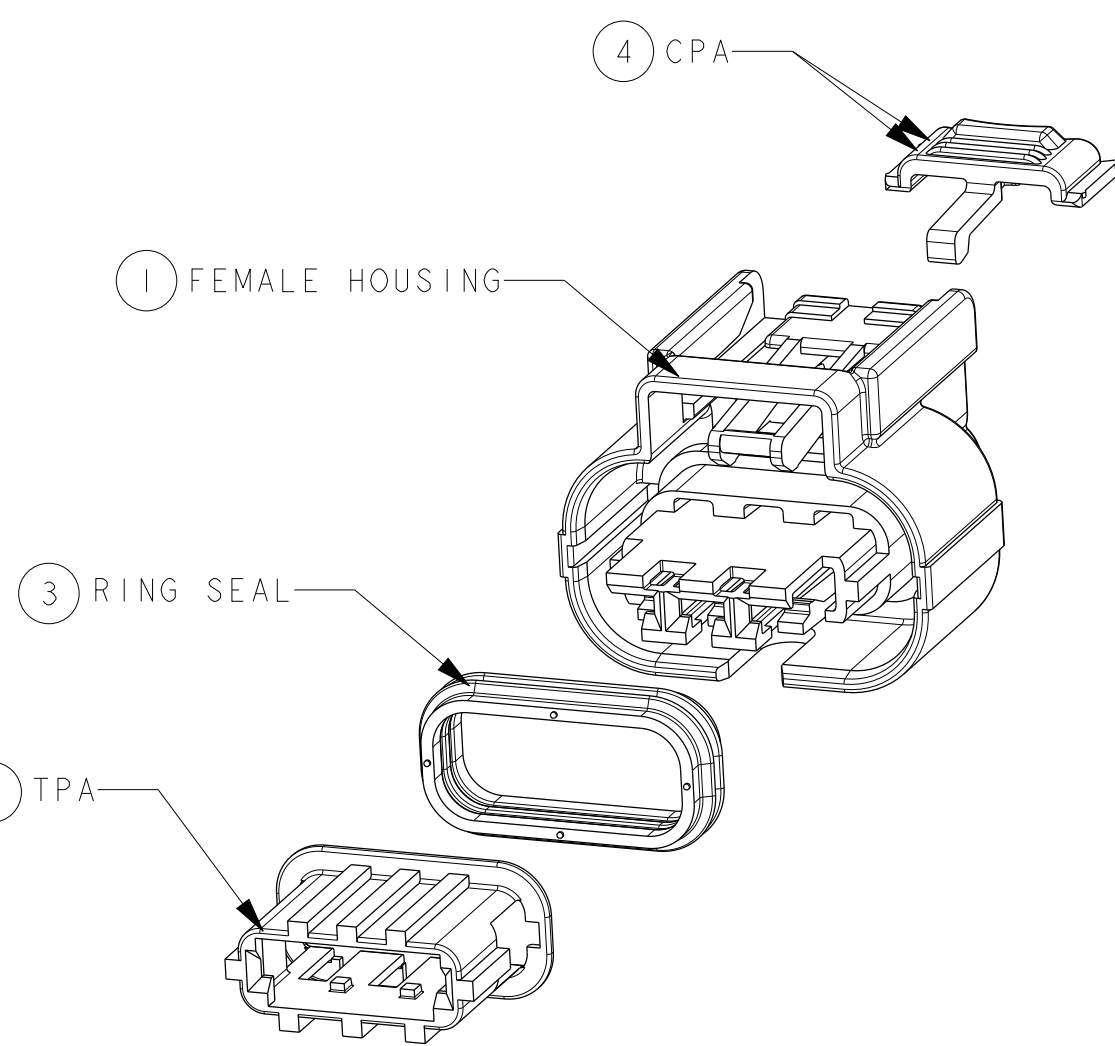
- 1) VALIDATED TO SAE/USCAR-2 REV 5
- 2) VALIDATED TO THE FOLLOWING TEMP., VIBRATION, AND SEALING CLASSES:
 - SAE/USCAR-2 V3 T3 (125°C) WITH GOLD TERMINALS
 - SAE/USCAR-2 SEALING S3 T3 (125°C)(ISO16750 9K EQUIVALENT)
- 3) CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
 - FCI APEX 2.8 TERMINALS LISTED IN THE APPLICABLE COMPONENTS CHART ON THIS DRAWING WITH WIRE SIZES DEFINED IN NOTE 4.
 - SEE FCI DRAWING C15004-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 EWCA-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 BAQA-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF ISO 16949 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) INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.



SCALE 2:1

EOR-12-01318-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 F516000 2.18mm-2.80mm WAS 2.18mm-2.77mm						
R23 CORRECTED PART NUMBER, F731210 WAS F181210						
1200532 NEW RELEASE - RELEASED AT REV 6						
EDA 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-013999			
TOLERANCES	±0.1	±.2*	MATERIAL			
FINISHES			FINISHES			
DO NOT REUSE DRAWING						
DATE	NAME	DATE	NAME			
CREATED BY	APPROVED BY	DATE	NAME			
MODIFIED BY	APPROVED BY	DATE	NAME			
DESIGNED BY	APPROVED BY	DATE	NAME			
APPROVED BY	APPROVED BY	DATE	NAME			
FILE NAME	PCC006106 DOCUMENT UNDER PDS CONTROL NO MODIFICATION ALLOWED OUTSIDE					
DRAWING NUMBER						
REV.						
APPROVED BY						
DATE						
PART NUMBER						
REV.						
SCALE 4:0						

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