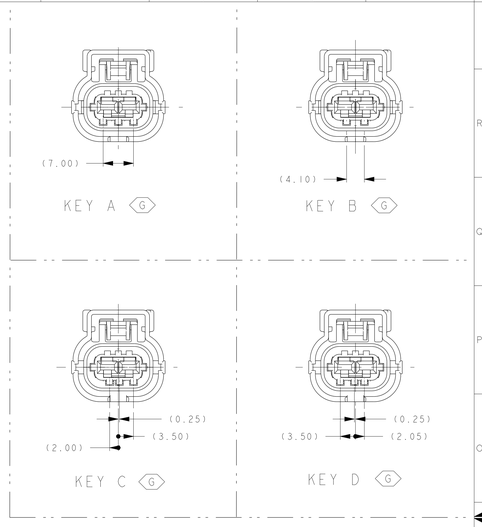
ASSEMBLY NUMBER	KEY OPTION	ITEM 1 HOUSING PA66 GF35	ITEM 2 TPA		ITEM 3 RING SEAL	ITEM 4 CPA
		FCI PART NUMBER	COLOR	FCI PART NUMBER	FCI PART NUMBER	FCI PART NUMBER
F019300	A	S629300	DK GREY	F645000	F646000 BURNT ORANGE	NO
F119300	B		DK BLUE	F436000		
TBD	C		TBD	TBD		
TBD	D		TBD	TBD		
F809800	A		DK GREY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

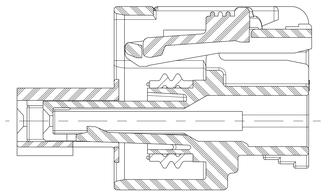
APPLICABLE COMPONENTS

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 0.50-1.00mm²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001432	14	16-14 AWG 1.50-2.50mm²	2.18mm-3.00mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001879	18AU	20-18 AWG 0.50-1.00mm²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001448	14AU	16-14 AWG 1.50-2.50mm²	2.18mm-3.00mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001807	18	20-18 AWG 0.50-1.00mm²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	TIN	FCI	54001404	14	16-14 AWG 1.50-2.50mm²	2.18mm-3.00mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001811	18AU	20-18 AWG 0.50-1.00mm²	1.40mm-2.13mm	COPPER ALLOY / NA
	2.8mm SEALED SYSTEM TERMINAL (F)	GOLD	FCI	54001410	14AU	16-14 AWG 1.50-2.50mm²	2.18mm-3.00mm	COPPER ALLOY / NA
6	2.80mm SYSTEM CABLE SEAL ROUND	GREEN	FCI (QSR)	F676000	-	20-18 AWG 0.50-1.00mm²	1.40mm-2.13mm	SILICONE
	2.80mm SYSTEM CABLE SEAL ROUND	BLUE	FCI (QSR)	F576000	-	16-14 AWG 1.50-2.0mm²	2.18mm-2.80mm	SILICONE
	2.80mm SYSTEM CABLE SEAL ROUND	YELLOW	FCI	60994034	-	2.5mm²	2.70mm-3.0mm	SILICONE
7	2.80mm SYSTEM CAVITY PLUG ROUND	WHITE	DELPHI	15305170	-	-	-	SILICONE

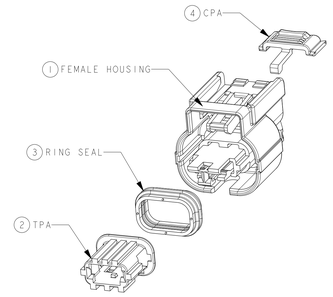
SCALE 1:1

SCALE 1:1

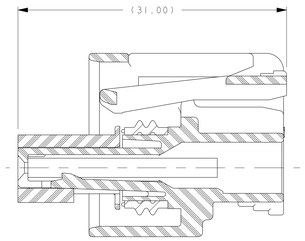




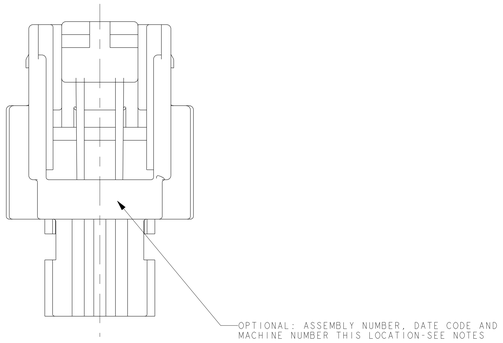
SECTION A-A
SHOWN WITH OPTIONAL CPA

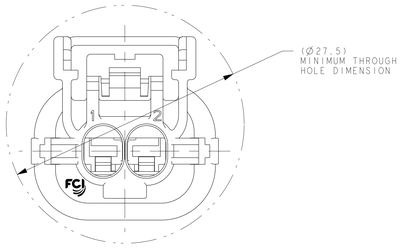


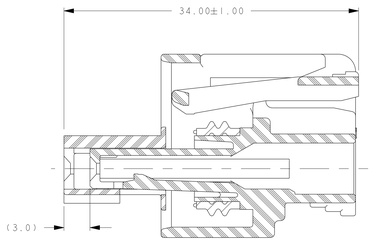
SCALE 2.000



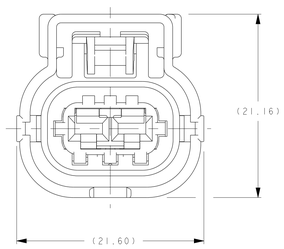
SECTION A-A
TPA SHOWN IN FINAL LOCK POSITION

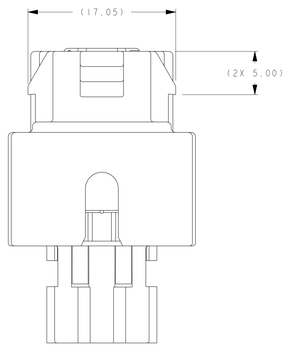






SECTION A-A
TPA SHOWN IN PRE-LOCK POSITION
(K)





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 EQUIVELENT)

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 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 #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.

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

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

ECN	ZONE	CHANGE DESCRIPTION
1200730	AP CHART	CORRECTED WIRE INSULATION DIA RANGE FOR F576000; 2.18mm-2.80mm was 2.18mm-2.77mm
1200532	-	NEW RELEASE - RELEASED AT REV B
		ADD 0.5mm² WIRE, REVISE WIRE SIZE COLUMN, REVISE INSUL. O.D. COLUMN
		NOTES REVISE NOTE 4 WITH 0.5mm WIRE INFO

PRODUCT SPEC: - | PACKAGING SPEC: - | APPLICATION SPEC: - | MATERIAL: SEE TABLE | SURFACE FINISH: - | COLOUR: SEE TABLE | TOOL NO.: - | ECO Loc. Code: AN | TOLERANCES: ±0.1 ±2° | CONFORMAT №: - | DO NOT MEASURE DRAWING | 3RD ANGLE | DIMENSION IN MILLIMETERS | CAD SYSTEM: pro / eng. | DWG SIZE: A0

This drawing and all other information contained therein 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 April ©1999

	DATE	NAME
CREATED BY	2006/12/21	Mathaiduraiv P
MODIFIED BY	2012/10/22	Mark McKIN
CHECKED BY	2012/10/22	Sachin SAHI
APPROVED BY	2012/10/24	Frank HOLLIN

TITLE: CHART ASSEMBLY - 2WAY FEMALE 2.8mm APEX SEALED CONNECTOR SYSTEM

PROJECT: - | ESR NO.: - | CAT. NO.: -

DRAWING NUMBER: PCC0605490 | REV.: D | STATE: SERIAL RELEASED | PART NUMBER: See Table | REV.: - | APPROVAL LEVEL: - | SHEET 1 of 1 | SCALE 4.000

FILE NAME: PCC0605490 | DOCUMENT UNDER PDS CONTROL NO MODIFICATION ALLOWED OUTSIDE

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Aptiv:
F809800-B F019300-B F019300 F809800 F909800 F909800-B