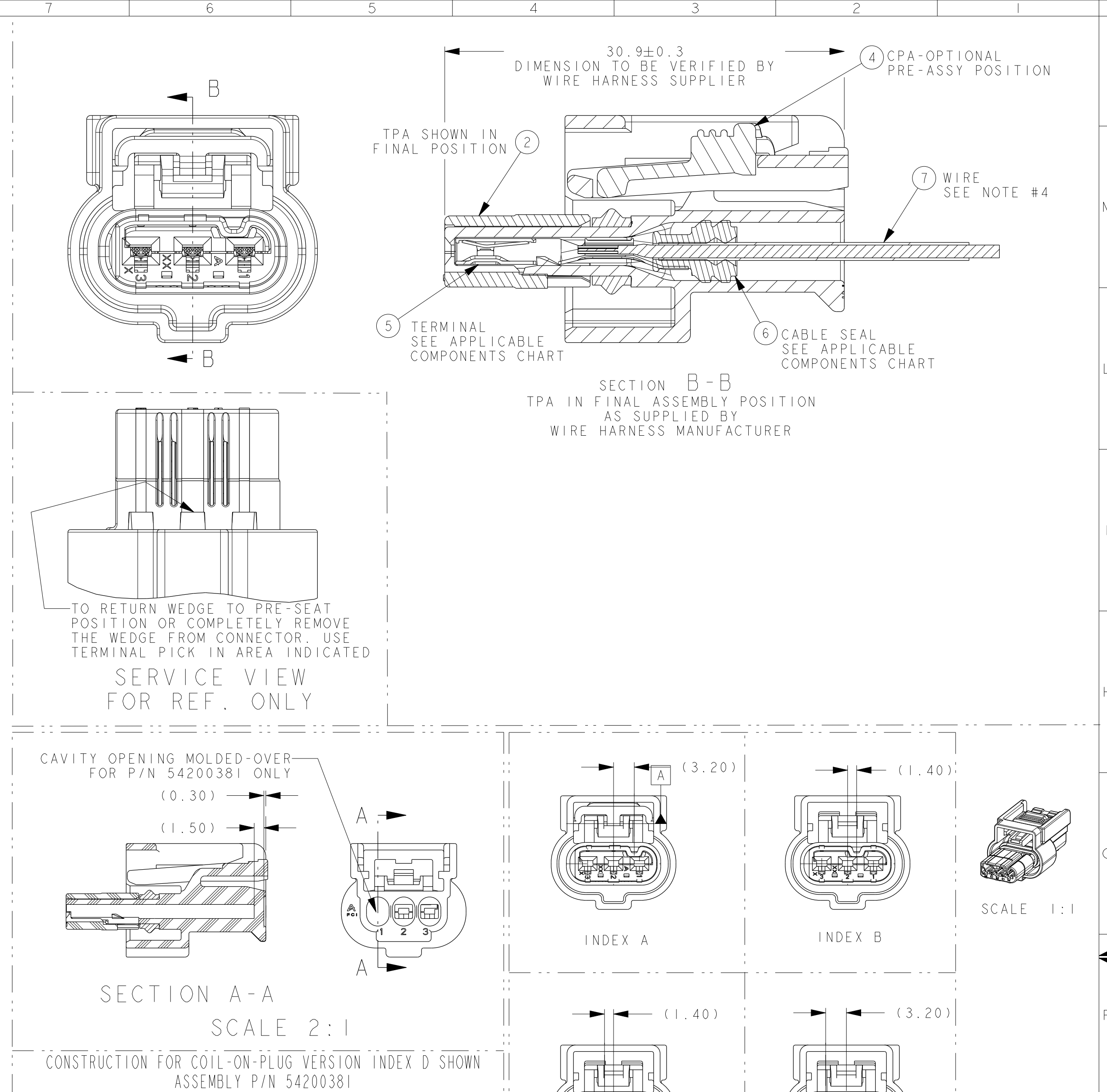




NOTES:

- 1) VALIDATED TO SAE/USCAR-2 REV 3 WITH THE FOLLOWING EXCEPTION(S):
 - SECTION 5.4.5 (Misc. Comp. Engage/Disengage)
 - PA LOCKED TO PRE-STAGE 8N-30N (FCI REQUIREMENT)
 - SECTION 5.4.1 (Terminal - Connector Insertion/Extraction Force)
 - INSERTION OF TERMINAL INTO CAVITY NOT TO EXCEED 2IN
 - SECTION 5.4.4 (Polarization Feature Effectiveness)
 - >160N FOR ALL COMBINATIONS
 - SECTION 5.4.2 (Connector-Connector Mating/Unmating Force)
 - >95N UNMATING FORCE.
- 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 (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)
- 3) 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
- 4) CONNECTOR SYSTEM HAS BEEN 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:
 - WIRE SIZES: 0.50mm² - 1.25mm² and 20AWG - 16AWG
 - OUTSIDE DIAMETER: 1.40mm MIN - 2.41mm MAX
 - TYPE/STANDARD: MIL123-A, MS-8288, MS-9502, ES-AU5T-1A348-AA, ISO 6722
 - WIRE AND INSULATION TYPE MUST BE APPROPRIATE FOR TEMPERATURE CLASS & APPLICATION ENVIRONMENT
- 5) CONNECTOR IS MATE COMPATIBLE WITH DEVICES WHICH CONFORM WITH THE FOLLOWING USCAR INTERFACE SPECIFICATIONS:
 - 120-S-003-1-Z01 (WITH EWCAP-001 TYPE 120-T BLADES)
 - 120-S-003-1-Z02 (WITH EWCAP-001 TYPE 120-T BLADES)
- 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)  INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.

12-00271	CHART	F7521210 WAS 54200016 (NEW CPA), PCL UPDATED TO 'H', 0.75-1.25mm WAS 0.75-1.50mm ²		
	NOTES	NOTE #4 WAS CORRECTED (0.50-1.25mm WAS 0.50-1.50mm ²)		
11970	N13	CORRECTED DIMENSION: 33.3+0.75 WAS 33.1+0.3		
11903	CHART	APPLICABLE COMPONENTS CHART REVISED		
	CHART	F519600 WAS F409900 (CORRECTION)		
11891	CHART	ADDED KEY OPTION D WITH CPA (F1771010)		
11838	CHART	APPLICABLE COMPONENTS CHART REVISED		
	NOTES	REVISED NOTE #5		
	CHART	CORRECTED PCL CODES		
10700	ALL	REVISED AND REDRAWN IN FCI - CUSTOMER FRAME.		
----	D16	ASSY P/N F5434300 FOR FLUOROSILICONE MATERIAL APPLICATION ADDED, CHART UPDATED WITH FLUOROSILICONE SEAL P/N'S (NOT AVAILABLE).		
ECN-NO.	ZONE	CHANGE DESCRIPTION		
PRODUCT SPEC.	PACKAGING SPEC.	APPLICATION SPEC.	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 10, 1999	
USCAR-2 REV 5	NONE	NONE		
TOLERANCES	PLACE DIMS ± 0.25 PLACE DIMS ± 0.18	MATERIAL: (SEE TABLE)	SURFACE FINISH	CAD SYSTEM
CONTRACT #:	SEE NOTE 10	COLOR: -	-	3RD ANGLE PROJ 1st ANG DIMENSION IN MILLIMETERS
DO NOT MEASURE DRAWING	TOOL NO.	A-126	ECO Lvl. Code	AN
	DATE	NAME	ITEM	DRAWING NUMBER
"CREATED"	2003-07-26	J. LAURIN	CHART ASSEMBLY - 3-WAY FEMALE (12MM APEX SEALED CONNECTOR SYSTEM)	REV.
CHECKED BY	2003102008	Frank HOLZ	PROJECT	K29002 H
DESIGNED BY	2003102008	Mark HUBER		SERIAL RELEASED
APPROVED BY	2003102008	JOH CAMPBELL	3 WAY SENSOMATE 12	See Table
FILE NAME	K29002	DOCUMENT UNDER POS CONTROL NO MODIFICATION ALLOWED OUTSIDE	AM030093 CAT. NO.	SCALE 4:00