



ASSEMBLY P/N'S	PCL	CONNECTOR TEMPERATURE CLASS PER SAE/USCAR-2 REV 3	KEY OPTIONS	COMPONENTS					
				INSULATOR (HOUSING)		TPA (DK. BLUE)	RING SEAL (BURNT ORANGE)	RING SEAL (DK. GREEN)	CPA (RED) (OPTIONAL)
				ITEM-1	ITEM-2	ITEM-3		ITEM-4	
54200378	C	4	A	COLOR PA66 GF 35	PA66 GF 35	SILICONE	FLUROSILICONE	PA66 GF 35	
54200379	C	4	B	BLACK	54200382	54200386			
54200380	C	4	C	LT. GREY	54200383	54200387	54200392	NA	
54200381	C	4	D	BROWN	54200384	54200388			
F534300	D	3	A	DK. GREY	54200385	54200389			
F400900		4	A	BLACK	54200382	54200386	NA	C434300	
F500900		4	B	LT. GREY	54200383	54200387	54200392	NA	
F600900		4	C	BROWN	54200384	54200388		54200016	

APPLICABLE COMPONENTS							
ITEM NO.	ITEM DESCRIPTION	PLATING OR COLOR	FORD COMP PART NUMBER	SUPPLIER	FCI COMPONENT PART NUMBER	GRIP/WIRE SIZE	MATERIAL/SPEC NO
5	1.20 SYSTEM TERMINAL	TIN	AU5T-14474-MA	FCI	54001864	16/18 AWG 1.00-1.50mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	TIN	AU5T-14474-NA	FCI	54002006	20 AWG 0.50-0.75mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	TIN/SILVER	AU5T-14474-PA	FCI	54001866	16/18 AWG 1.00-1.50mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	TIN/SILVER	AU5T-14474-RA	FCI	54002007	20 AWG 0.50-0.75mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	SILVER	AU5T-14474-SA	FCI	F731400	16/18 AWG 1.00-1.50mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	SILVER	AU5T-14474-TA	FCI	F931400	20 AWG 0.50-0.75mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	GOLD	AU5T-14474-UA	FCI	54001863	16/18 AWG 1.00-1.50mm <sup>2</sup>	COPPER ALLOY / NA
	1.20 SYSTEM TERMINAL	GOLD	AU5T-14474-VA	FCI	54002005	20 AWG 0.50-0.75mm <sup>2</sup>	COPPER ALLOY / NA
6	1.20 SYSTEM CABLE SEAL OVAL	GREEN	AU5T-14603-FA	FCI (LEXINGTON)	54200393 (LSR-3115)	16/18 AWG 1.00-1.50mm <sup>2</sup>	SILICONE
	1.20 SYSTEM CABLE SEAL ROUND	BROWN		FCI (OSR)	C705300	18/20 AWG	FLUROSILICONE
	1.20 SYSTEM CABLE SEAL ROUND	BLUE	AU5T-14603-EA	FCI (OSR)	54200391 (A-0131-OSR)	20 AWG 0.50-0.75mm <sup>2</sup>	SILICONE

NOTES:

- VALIDATED TO SAE/USCAR-2 REV 3 WITH THE FOLLOWING EXCEPTION(S):
  - SECTION 5.4.5 (Misc. Comp. Engage/Disengage)
  - CPA 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.
- 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 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: 0.50mm<sup>2</sup> - 1.50mm<sup>2</sup> and 20AWG - 16AWG
  - OUTSIDE DIAMETER: 1.40mm MIN - 2.41mm MAX
  - TYPE/STANDARD: MIL-123-A, MS-8288, MS-9502, ESAU5T-1A348-AA, ISO 6722
  - 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-003-1-Z01
  - 120-S-003-1-Z02
- 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.

10700	ALL	REVISED AND REDRAWN IN FCI - CUSTOMER FRAME.
----	D16	ASSY P/N F5434300 FOR FLUROSILICONE MATERIAL APPLICATION ADDED, CHART UPDATED WITH FLUROSILICONE SEAL P/N'S (NOT AVAILABLE).
ECN NO.	ZONE	CHANGE DESCRIPTION
PRODUCT SPEC.	PACKAGING SPEC.	APPLICATION SPEC.
USCAR-2 REV 5	NONE	NONE
TOLERANCES: 1 PLACE DIMS ± 0.25 2 PLACE DIMS ± 0.13	MATERIAL: (SEE TABLE)	SURFACE FINISH:
COUNTERPART: HIRSCHMANN INTERFACE	DATE: SEE TABLE	REV: SEE TABLE
DO NOT MEASURE DRAWING	TITLE: CHART ASSEMBLY - 3-WAY FEMALE	DRAWING NUMBER: K29002
DATE: 2018/07/05	NAME: J. LAURIN	REV: D
MODIFIED BY: 2018/10/01	APPROVED BY: Bob CUE	APPROVAL LEVEL: 1
CHECKED BY: 2018/10/01	ECR NO.: AWD30093	SHEET: 1
APPROVED BY: 2018/10/01	ECR NO.: AWD30093	REV: 1
FILE NAME: K29002	DOCUMENT UNDER PDS CONTROL, NO MODIFICATION ALLOWED OUTSIDE	SCALE: 4.00

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