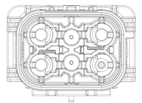
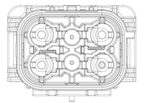
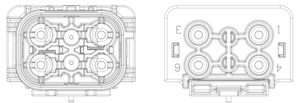


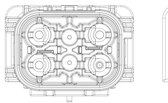
TYPE 102
SAME AS TYPE 101
EXCEPT AS SHOWN



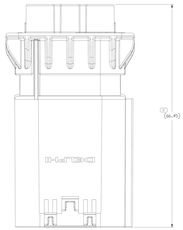
TYPE 105
SAME AS TYPE 102
EXCEPT AS SHOWN

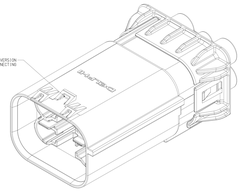


TYPE 108
SAME AS TYPE 101
EXCEPT AS SHOWN



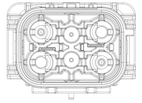
TYPE 109
SAME AS TYPE 101
EXCEPT AS SHOWN



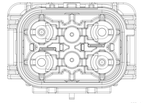


SYMBOL DEFINITION		MISSING SYMBOLS
A DIMENSION WITHOUT ANY INSPECTION REPORT SYMBOL (-DCS) MAY REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED: 16	NO MISSING SYMBOL NUMBER
	LOT NO. REQUIRED: 12	

ZONE	REV	ECN	DESCRIPTION	DATE	BY
ENGG	A	01	ALL PARTS RELEASED	4746.06	MOE
DCA/C	B	02	ALL PARTS - ADDED CREEPAGE INFORMATION FOR CONNECTOR ASSEMBLY	4771.11	MOTHOMAS
ENGG	B	03	ALL PARTS - REVISED TEMPERATURE CLASS AT VALIDATION INFORMATION NOTE	4945.1	DUDOUGHTON
			ALL PARTS - ADDED TERMINAL, CAVITY, DIST. AND CABLE SEAL MIN. LENGTH IN CHART		
KPELT	B	04	1134491 - STRAIN RELIEF WAS UNDERSIZE AND CHANGED TO 1134491 - SEE CHART	4.9447	MPATHOMAS
MATSE	B	05	1134491 - UPDATED PART AVAILABILITY	4.9955.1	AS.ANDRE
MAPSE	B	06	ALL PARTS - ADDED "HARNESS INFORMATION" NOTE	4.9965.1	AS.ANDRE
MAYSE	B	07	2527127 - RELEASED	4419.99	DUDOUGHTON
JCAP	B	08	2534897 - RELEASED	4.9.2018	DUDOUGHTON
LJAVE	B	09	2534897 - UPDATED PART AVAILABILITY	4.9.2021	AS.ANDRE
JPLAZA	B	10	2527127 - CABLE SEAL NO. 1811781-1 REPLACED WITH 2-2098077-1 AND 2527127 & 2534897 - UPDATED "MATING CONN. ASM." COLUMN	4.9.2019	AS.ANDRE
LSAZU	B	011	2537324 - RELEASED	11.5.2021	AS.ANDRE



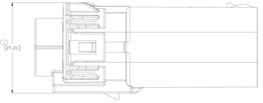
TYPE 103
SAME AS TYPE 101
EXCEPT AS SHOWN

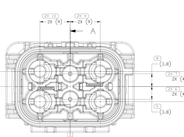


TYPE 106
SAME AS TYPE 103
EXCEPT AS SHOWN

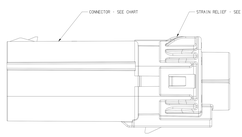
ADDITIONAL HARNESS INFORMATION
AUXILIARY RIGHT VIEW
SCALE 3:1

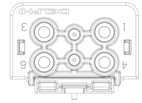
NOTES
1. THIS INFORMATION APPLIES TO EVERY CONNECTOR TYPE AND VALIDATED CABLE SPECS.

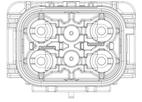




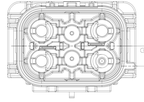
TYPE 101







TYPE 104
SAME AS TYPE 101
EXCEPT AS SHOWN

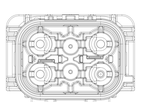


TYPE 107
SAME AS TYPE 101
EXCEPT AS SHOWN

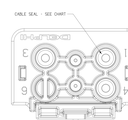
2.4 & 1.0 TERMINAL & WIRE APPLICATION REQUIREMENTS

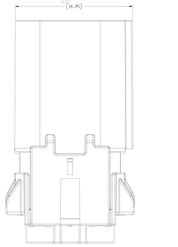
APTIV HES 2.4 TERMINAL - 1.0782304 OR EQUIVALENT WITH GOLD PLATED INTERFACE FOR POWER CIRCUITS.
APTIV HES 1.0 TERMINAL - 1.0312545 OR EQUIVALENT WITH GOLD PLATED INTERFACE FOR SIGNAL CIRCUITS.

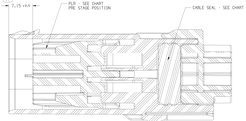
1. 105A CONTINUOUS CURRENT APPLICATIONS REQUIRE 5.0 - 8.0 mm² COPPER CONDUCTORS ON THE 2.4 TERMINALS.
2. GOLD PLATED TERMINAL INTERFACES ARE REQUIRED TO MEET USCAR-2 CONNECTOR ELECTRICAL CRITERIA.
3. TERMINAL TEMPERATURE RISE OVER AMBIENT IS LIMITED TO 50°C AT MAXIMUM CONTINUOUS CURRENT.
   TERMINAL TEMPERATURE RISE OVER AMBIENT IS LIMITED TO 40°C AT MAXIMUM CONTINUOUS CURRENT.
   TERMINAL TEMPERATURE (AMBIENT + RISE) IS LIMITED AT MAXIMUM CONTINUOUS CURRENT AND MAXIMUM AMBIENT.
4. ELECTRIC VEHICLE CHARGING APPLICATIONS REQUIRE WIRE TO TERMINAL INTERFACE RESISTANCE ≤0.2 mOhms.
   - SOLDERED CRIMPS ARE RECOMMENDED.



TYPE 110
SAME AS TYPE 107
EXCEPT AS SHOWN







SECTION A-A

									POSITION	
P067004	01	N	110	1.0sq.2SF	1811747	2-1393069-1	2-1393074-1	4	CAVITY(s)	2x1,3x3,4x4
P249401	02	N	108	2.0sq.2SF	1811747	2-1452994-1	2-1393074-1	2.4,5	POSITION	2x1,3x3,4x4
P249402	03	N	108	2.0sq.2SF	1811747	2-1452994-1	2-1393074-1	2.4,5	CAVITY(s)	2x1,3x3,4x4
2.0.6449	04	N	ON	2.0sq.2SF	1811747	2-1393069-1	2-1393074-1	4	CAVITY(s)	2x1,3x3,4x4
2.0.6448	05	N	ON	2.0sq.2SF	1811747	2-1393069-1	2-1393074-1	1,4,5	METHODS	2x1,3x3,4x4
2.0.6449	06	N	ON	2.0sq.2SF	1811747	2-1393069-1	2-1393074-1	1,4,5	METHODS	2x1,3x3,4x4
2.0.6449	07	N	107	2.0sq.2SF	1811747	2-1393069-1	1811738	1,4,5	METHODS	2x1,3x3,4x4
2.0.6449	08	N	107	2.0sq.2SF	1811747	2-1393069-1	1811738	1,4,5	METHODS	2x1,3x3,4x4
2.0.6449	09	N	107	2.0sq.2SF	1811747	2-1393069-1	1811738	NONE	METHODS	2x1,3x3,4x4
PART NO.	REV	N/P	TYPE	CONNECTOR	PLR	STRAIN RELIEF	CABLE SEAL	BLOCKED CAVITY	MATING CONN. ASM	

NOTES

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:
   DIMENSIONS ARE TO FACE OF LOCK DOWNS AND AUTOMATICALLY REVISED BY COMPUTER FOR INSPECTION
   ALL DIMENSIONS ARE NOMINAL AND APPLY AT 20°C
   OTHER DIMENSIONS NOT SHOWN BUT REQUIRED FOR TOOL BUILD, SEE MFR MODEL FOR PRECISE TOOL PATH DATA.
2. THIS PRODUCT IS NOT CATEGORIZED AS AN APPLIANCE ITEM, MINOR PARTS, OR SERVICE PARTS. THIS PRODUCT IS NOT A SAFETY CRITICAL, DEPENDABLE, HIGH RELIABILITY, AND SOFT FAILURE ITEM. SUITABLE FOR FIT, FORM, OR FUNCTION OF THE PART ARE PERMISSIBLE PER EIA-IS-935.B.EIA.
3. CONNECTOR ASSEMBLIES ARE VALIDATED TO SAE/USCAR-37 REV.01 - AUG-'08 EXCEPT FOR THE FOLLOWING TESTS, SEALING CLASS S3, VIBRATION CLASS V1, AND MATING CYCLES M1.
4. CONNECTOR ASSEMBLY TYPES 102, 103, 105, AND 106 MEET SAE/USCAR-25 REV.03 - SEPT.'08 ASSEMBLY FORCE CLASS 3 CRITERIA OF 75N MAX.
5. HARNESS MANUFACTURER IS RESPONSIBLE FOR VALIDATING THE CONNECTION AND SEAL SYSTEM PER THE REQUIREMENTS OF THEIR SPECIFIC APPLICATIONS.
6. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
7. SEALING VERIFICATION AND WARM-UP REQUIRED PER EIA-709.
8. CONNECTOR SEALING PROVIDE THE FOLLOWING MINIMUM CREEPAGE DISTANCES BETWEEN ADJACENT CAVITIES ASSESSED PER ISO16944 WITH POLLUTION DEGREE 3 (2 to 1):
   CAVITIES 1 TO 2 OR 2 TO 3 = 10.2 MM
   CAVITIES 1 TO 3 OR 2 TO 4 = 10.794 MM
   CAVITIES 1 TO 4 = 19.09 MM
9. SEALING CODE K - DESIGN #(S) MEET REQUIREMENTS OF SAE/USCAR-2 CONNECTOR SYSTEM ENVIRONMENTAL TEST FLOWCHART (PRESSURE/VACUUM AND SUBMERSION).

PROPRIETARY INFORMATION: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPRIETARY OF APTIV UNLESS OTHERWISE SPECIFIED. IN ACCEPTANCE OF THIS DRAWING, RECIPIENT AGREES TO KEEP CONFIDENTIAL AND NOT REPRODUCE OR COPY IN WHOLE OR IN PART, NOR ASSIGN ANY RIGHTS, NOR DISCLOSE ITS CONTENTS OR USE FOR MANUFACTURE OR SALE OF APPARATUS OR PARTS WITHOUT PRIOR WRITTEN PERMISSION OF APTIV.

PART DRAWING

TITLE	
SIZE	DRAWING NO.
A3	33130452
SCALE	SHEET
1:1	1 OF 1
DO NOT SCALE DRAWING	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±
INTERPRET GEOMETRIC DIMENSIONING AND TOLERANCING PER:

MATERIAL
FINISH
NEXT ASSY
APPLICATION
PROPRIETARY AND CONFIDENTIAL

THIRD ANGLE PROJECTION

SIZE SCALE SHEET
A3 1:1 1 OF 1

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