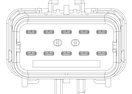
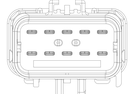
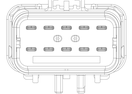


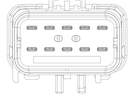
TYPE B
SAME AS TYPE A
EXCEPT AS SHOWN



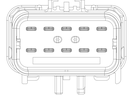
TYPE F
SAME AS TYPE A
EXCEPT AS SHOWN



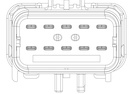
TYPE C
SAME AS TYPE A
EXCEPT AS SHOWN



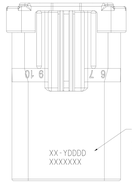
TYPE G
SAME AS TYPE A
EXCEPT AS SHOWN

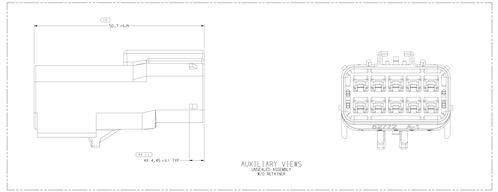


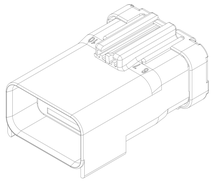
TYPE D
SAME AS TYPE A
EXCEPT AS SHOWN

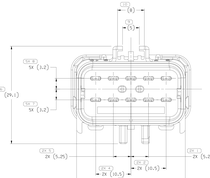


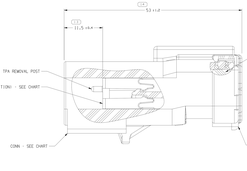
TYPE E
SAME AS TYPE A
EXCEPT AS SHOWN

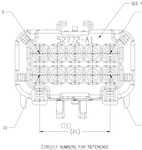




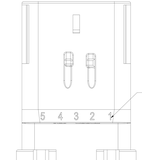


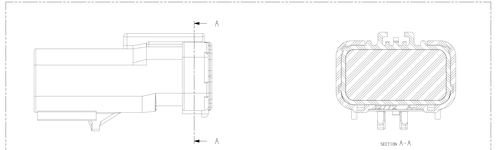






CIRCUIT NUMBERS FOR REFERENCE
SHOWN ON SIDES OF PART





SECTION A-A

MATING PART NUMBERS CHART																	
G	LT BROWN	SEALED	1.25D2.1F	54D2.0.1AZ	3.P5.1.1.8L1	54D2.0.1A.1N											
		SEALED	1.25D2.1F	54D2.0.1AZ	1.8A1.4R1	54D2.0.1A.1											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5A	4.54D2.0.1A.1											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.1.8L1	4.54D2.0.1A.0A											
F	AQUA	UNSEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5D1	54D2.0.1D.0A											
		UNSEALED	DIRECT CONNECT APPLICATION		1.P5.1.2.D.5.1	54D2.0.1D.0S											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.1.P.5D	54D2.0.1.0A											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.0.1.1.7	54D2.0.1.0.5											
E	DK GRN	UNSEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5D	54D2.0.1E.3A											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.0.1.1.5	54D2.0.1E.3											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5A	54D2.0.1E.3N											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.0.1.1.5	54D2.0.1.2.3											
D	ORANGE	UNSEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5	54D2.0.1D.4N											
		UNSEALED	DIRECT CONNECT APPLICATION		1.P5.0.1.1.1	54D2.0.1D.0A											
		SEALED	DIRECT CONNECT APPLICATION		1.8L1.P.5	54D2.0.1.4N											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.0.1.1.8	54D2.0.1.4											
C	DK GREY	SEALED	DIRECT CONNECT APPLICATION		1.8L1.P.5A	54D2.0.1.1N											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.2.N.0A	54D2.0.1.1											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5A	4.54D2.0.1.2.N											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.1.8L1	54D2.0.1.2											
	LT GRN	UNSEALED	1.P5.0D1.1.1	54D2.0.1D.0	1.P5.0D.2A	54D2.0.1D											
		SEALED	1.P5.0D1.1.8	54D2.0.1D.0	1.P5.1.P.5	54D2.0.1D.2N											
		SEALED	1.P5.0D1.1B	54D2.0.1D.0	1.P.5N.2A	54D2.0.1.2											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.P.5A	4.54D2.0.1A.2											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.8L1	4.54D2.0.1A.N											
B	LT GREY	UNSEALED	1.P5.0D1.1.1	54D2.0.1D	1.P5.0D.2A	54D2.0.1D											
		SEALED	1.54P1.1N2	54D2.0.1.7	1.P5.1.1.5L1	54D2.0.1.0N											
		SEALED	1.54P1.1N2	54D2.0.1.7	1.8A1.4R1.1	54D2.0.1.0											
		SEALED	1.P5.1.1.N4	54D2.0.1.2A	1.8A1.4R1.1	54D2.0.1.0											
		UNSEALED	1.P5.0B7.1A.1		1.P5.0B7.1.1												
A	LT BLUE	UNSEALED	1.P5.0D1.1.2	54D2.0.1.0.6	1.P5.1.1.N7	54D2.0.1.0.0N											
		UNSEALED	1.P5.0D1.1.2	54D2.0.1.0.6	1.P5.P.2.0B	54D2.0.1.0.0											
		SEALED	1.54P2.6.1.2	54D2.0.1.0.6	1.5.1.6.P.P5	54D2.0.1.0.0N											
		SEALED	1.54P2.6.1.2	54D2.0.1.0.6	1.P5.1.1.8L1	4.54D2.0.1.0.2N											
		SEALED	1.54P2.6.1.2	54D2.0.1.0.6	1.8L7.7.1.2	4.54D2.0.1.0.4											
		SEALED	1.P5.1.1.P5	54D2.0.1.0.P5B	1.8L7.7.1.2	4.54D2.0.1.0.4											
		SEALED	1.54P2.6.1.2	54D2.0.1.0.6	1.P5.1.8L1	54D2.0.1.0.P5AN											
		SEALED	DIRECT CONNECT APPLICATION		1.P5.1.8L1	54D2.0.1.0.P5											
		APTIV	WAL		APTIV	WAL											
TYPE	COLOR	SEALED/ UNSEALED	MATING ASSEMBLY PART NUMBERS				MATING ASSEMBLY PART NUMBER FOR REFERENCE ONLY										

2N0D1.8L2	D1	D1	A		2N0D7B1.1																				
2.P0D1.1.1	D1	D1	AD	A	54D0.1D0.N	W	1.P5.1.P.1A	54D0.1D.N	1.P5.1.P.1A	54D0.1D0	1.8L7.P.5.5	54D0.1D0.2	1.P5.1.P.1A	54D0.1D2											
2.P0D1.1.1	D1	D1	AD	A	54D0.1D0.7	W	1.P5.1.P.1A	54D0.1D.P5	1.P5.1.P.1A	54D0.1D0															
2.P0D1.1.4	D1	D1	AD	C	54D0.1D0B	W	1.P5.1.P.1B	54D0.1D.3L	1.P5.1.P.1A	54D0.1D0															
1.54D6.2.1	D1	D0	A	54D0.1D.6	W	1.P5.1.P.1.1	54D0.1D.4	1.P5.1.P.1A	54D0.1D0	1.8L7.P.5.5	54D0.1D0.2	1.P5.1.P.1A	54D0.1D2													
1.54P1.1N2	D1	AD	C	54D0.1D.7	W	1.P5.1.P.1.4	54D0.1D.3L	1.P5.1.P.1.4	54D0.1D.3L	1.P5.1.P.1A	54D0.1D2															
2.P0D1	D1	AD	B	54D0.1D.8	W	1.P5.1.P.1B	54D0.1D.3L	1.P5.1.P.1A	54D0.1D0	1.8L7.P.5.5	54D0.1D0.2	1.P5.1.P.1A	54D0.1D2													
2.P0D1.1.4	D1	AD	B	54D0.1D.4	W	1.P5.1.P.1.4	54D0.1D.3L	1.P5.1.P.1.4	54D0.1D.3L																	
2.P0D1.1.4	D1	AD	B	54D0.1D.4	W	1.P5.1.P.1B	54D0.1D.3L	1.P5.1.P.1A	54D0.1D0																	
2.P0D1.1.P5	D1	AD	B	54D0.1D.P5B	W	1.P5.1.P.1B	54D0.1D.3L	1.P5.1.P.1A	54D0.1D0																	
2.P0D1.1.P5	D1	AD	C	54D0.1D.P5	W	1.P5.1.P.1.4	54D0.1D.3L	1.P5.1.P.1.4	54D0.1D.3L																	
2.P0D1.1.P5	D1	AD	C	54D0.1D.P5	W	1.P5.1.P.1B	54D0.1D.3L	1.P5.1.P.1A	54D0.1D0																	
PART NO	REV	MVT	TYPE	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV
APTIV				APTIV		APTIV		APTIV		APTIV		APTIV		APTIV		APTIV		APTIV		APTIV		APTIV		APTIV	
ASSEMBLY				WAL		WAL		WAL		WAL		WAL		WAL		WAL		WAL		WAL		WAL		WAL	
CONN																									
TPA																									
WATT SEAL																									
RETAINER																									

NOTES

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:
   DIMENSIONS ARE TO FACE OF WIRE SHOWN AND
   TO CENTER OF TERMINAL IN WIRE CONNECTION
   TUBE WITH MOLD, FOR PRECISE DIMENSIONS, FOR ALL
   OTHER DIMENSIONS NOT SHOWN NOT REVISED FOR TOOL
   DESIGN, USE MOLD DRAWING AS THE MASTER.
2. THIS PRODUCT IS NOT CATEGORIZED AS AN APPEARANCE TOW, MINOR
   IMPERFECTIONS INCLUDING, BUT NOT LIMITED TO, FLOW MARKS, COLOR
   VARIATION, GATE, EJECTOR PIN, SINK, WELD LINE, SHORT SHOT, FLASH,
   FILL, FINAL DETERMINATION OF THE PART ARE PERMISSIBLE PER EAAP.4.1.2.5.01.EN.
3. * INDICATED PN ARE W/O WATT SEAL AND RETAINER (WATING PART NUMBERS CHART).
4. ALL NON-SEALED APPLICATIONS MAY BE USED WITH ANY WIRE
   INSULATION THICKNESS WITHIN THE SPECIFIED RANGE
   PROVIDING THAT A TERMINAL CRIMP FOR THAT CONDITIONS
   COMBINATION IS SHOWN ON THE WALL TERMINAL DRAWING
   (50 THOU WALL EQUIVALENTS PERMISSIBLE)
   MAX. INSULATION CRIMP WIDTH - 4.N2
   MIN. INSULATION CRIMP WIDTH - 4.P5
   MAX. INSULATION O.D.A. - 4.2M (.50 DA THOU WALL)
5. USE WITH FOLLOWING APPLICABLE COMPONENTS AS NEEDED:
   CAVITY PLUG WALL 54D0000.WPA (5.5)@P4
6. DIRECT CONNECT INTERFACE PER WAL 0.8600.
7. TEST METHOD PERFORMANCE, CONNECTOR ENGAGE & DISENGAGE WITH LATCH
   DEFLECTION FORCE, MATING & UNMATING FOR THIS SYSTEM
   TPA SEATING FORCES - .75N MAX
   V-WAS TREE CLIP INSERTION FORCES - .75N. MAX
8. SUPPLIER, MOLD & CAVITY I.D. SIGNIFIES TOOL OWNERSHIP.
9. ANNUAL QUALITY REQUIREMENTS:
   IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER WAL
   0.8600 SECTION 2 & VALIDATION PER WAL 0.8600 SECTION 3 & 4 AND
   PV REQUIREMENTS OF CG-9000 SECTION 2 & VALIDATION 2 REV B.
   ALL NON-REFERENCE DIMENSIONS ARE REQUIRED
   - USE UNDER A, BLACK SEALED AND UNSEALED FOR ALL AFFECTED
     INSULATION PERFORMANCE
   - CURRENT PRODUCTION TOOLING
   - POINT OF LAST RUN
   SERVICE TOOLING GUIDE INFORMATION PER APEX TRAINING MANUAL.
10. VALIDATION IS DONE ACCORDING TO USCAR 2 REV 5 WITH TEMP CLASS T3,
    VIBRATION CLASS V3 AND SEAL S2
11. P.N. WITH WAL 54D0.0D.WPA (.8/P.P5), WATT SEAL MUST BE USED WITH WIRE
    INSULATION RANGE FROM Ø.1.P0 MM TO Ø 3.P5 MAX (12,14,16,18 OR 20 GAGE)
12. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
13. CONNECTOR PN 2N0D7B1.8L7 WAS ANALYZED FOR CREEPAGE & CLEARANCE FOR 48 VOLTS.

REVISION HISTORY									
	PRF	ECN							
ZONE	REV	NUMBER	ZONE	REVISION DESCRIPTION	DATE	BY	CHECKED
F	B	52		ALL PARTS RELEASED DISTRIBUTABLE PART DRAWING	170ct06	MT	JAY AL
D	A	52		2.P0.1.1.N4 WL - CORRECTED WATT SEAL APTIV PN	170CT06	MT	JAY AL
E	B	51		PART 8A7 - REVISED AND ADDED TOREDRAWE & CLEARANCE NOTE	16.170.1	DLD	DONNAL

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UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	SIZE: D
DIMENSIONS: ±0.25	SCALE: NONE
ANGLES: ±1°	
SURFACE FINISH: 125	
DO NOT SCALE DRAWING	
THIS DRAWING IS THE PROPERTY OF APTIV SOLUTIONS AND SHALL NOT BE REPRODUCED OR TRANSMITTED WITHOUT WRITTEN PERMISSION OF APTIV SOLUTIONS.	
TOLERANCES PER: N/ ALL DETAILS	
MATERIAL:	
FINISH:	
DRAWN BY: MR. ANTONETTE VELEZ	
CHECKED BY: JAY ALLEN	
APPROVED BY: STEVE DANIELSON	
DATE: 170CT06	
COMPONENT OF SYSTEM DESIGNATION: TKI1 CONN: APEX ZJ-8	
DRAWING TYPE: PART DRAWING	
DRAWING NUMBER: 15498846	
SHEET 1 OF 1	

CAGE CODE: 0JN06	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	
THIRD ANGLE PROJECTION	
SIZE: D	
SCALE: NONE	
PART WEIGHT: 0.0	
APTIV	

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PROPRIETARY 15498846 A1/0 A1 1 OF 1 1 OF 1 1 OF 1 1 OF 1