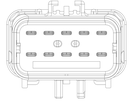
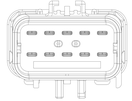
SYMBOL DEFINITION		MISSING SYMBOLS
A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED: 16 LIST NO: 15	NO MISSING SYMBOL NUMBER

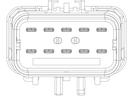
REV SYMBOL	ZONE	REVISION HISTORY	ECN	BY	DATE
PLATE B	B 12	ALL PARTS RELEASED DISTRIBUTABLE PART DRAWING	15478L	MT	APR 26
DRAWG B	C 12	CRU1344 ML- CORRECTED MATT SEAL, AP7J1 SEAL	15318	MT	APR 24
SUPCH B	D 11	INITIAL* RELEASED AND KOKO *CREOPAE	14175	SLD	DEC 06
SUPCH A	E 11	INITIAL RELEASE			
SHEET1 A	E 11	NA	NA	CORRECTION OF CAVITY NUMBER			MAY 07



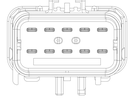
TYPE B
SAME AS TYPE A
EXCEPT AS SHOWN



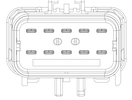
TYPE F
SAME AS TYPE A
EXCEPT AS SHOWN



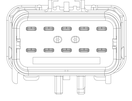
TYPE C
SAME AS TYPE A
EXCEPT AS SHOWN



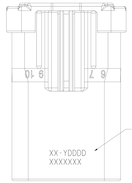
TYPE G
SAME AS TYPE A
EXCEPT AS SHOWN



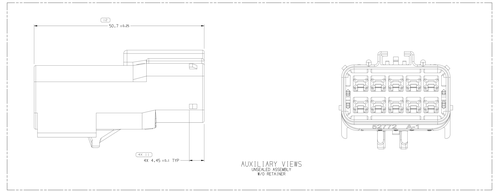
TYPE D
SAME AS TYPE A
EXCEPT AS SHOWN

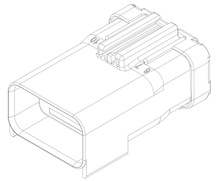


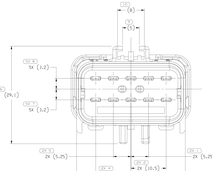
TYPE E
SAME AS TYPE A
EXCEPT AS SHOWN

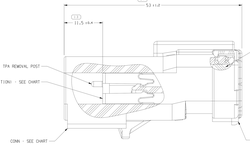


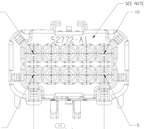
LAST 6 DIGITS OF PIN 8, PIN 7 (IF PRESENT), PIN 10, PIN 9. WILL DISPLAY DATE CODE & MODY MACHINE NO. LETTERING MUST BE LEGIBLE OPTIONAL

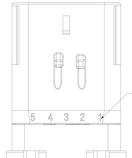




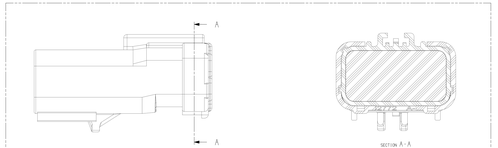








CIRCUIT NUMBERS 1 TO 5
SHOWN ON SIDES OF
OPPOSITE SIDE



MATING PART NUMBERS CHART						
G	LT BROWN	SEALED	12120119	54201042	3751138-1	54201042-N
		SEALED	12120119	54201042	1-1641140	54201042-3
		SEALED	DIRECT CONNECT APPLICATION		1751735-1	54201036-1
		SEALED	DIRECT CONNECT APPLICATION		3751135-1	54201036-N
F	AQUA	UNSEALED	DIRECT CONNECT APPLICATION		1351152	54201035N
		UNSEALED	DIRECT CONNECT APPLICATION		1351203-1	54201035
		SEALED	DIRECT CONNECT APPLICATION		3351158	54201036
		SEALED	DIRECT CONNECT APPLICATION		3350117	54201037
E	DK GRN	UNSEALED	DIRECT CONNECT APPLICATION		1351152	54201036
		SEALED	DIRECT CONNECT APPLICATION		3350110	54201003
		SEALED	DIRECT CONNECT APPLICATION		3351154	54201013
		SEALED	DIRECT CONNECT APPLICATION		3350115	54201013
D	ORANGE	UNSEALED	DIRECT CONNECT APPLICATION		3351151	54201044
		UNSEALED	DIRECT CONNECT APPLICATION		3350111	54201004
		SEALED	DIRECT CONNECT APPLICATION		1411157	54201044
		SEALED	DIRECT CONNECT APPLICATION		3350114	54201014
C	DK GREY	SEALED	DIRECT CONNECT APPLICATION		1351154	54201011
		SEALED	DIRECT CONNECT APPLICATION		1571398	54201011
		SEALED	DIRECT CONNECT APPLICATION		1351153	4542011-3
		SEALED	DIRECT CONNECT APPLICATION		3351144	54201023
		UNSEALED	15300108	3751149	54201002
	LT GRN	UNSEALED	15300114	3350139	54201002
		SEALED	15300118	3751155	54201012N
		SEALED	15300118	1-1571036	54201012
		SEALED	DIRECT CONNECT APPLICATION	1571735	54201036
		SEALED	DIRECT CONNECT APPLICATION	3351144	54201044N
B	LT GREY	UNSEALED	15300113	3751148	54201001N
		UNSEALED	15300113	3350138	54201001
		SEALED	15491940	3751135	54201010N
		SEALED	15491940	1-1641403	54201010
		SEALED	1351144	54201024	1641403	54201010
		SEALED	7000748-1		3500134	54201001
A	LT BLUE	UNSEALED	15300112	3751147	54201000N
		UNSEALED	15300112	3350136	7149208	54201000
		SEALED	15429612	54201016	15114895	54201009
		SEALED	15429612	54201016	1351151	54201020N
		SEALED	15429612	54201016	1-1671732	54201054
		SEALED	1351149	54201058	1-1671732	54201054
		SEALED	15429612	54201016	3351136	54201059A
		SEALED	DIRECT CONNECT APPLICATION		3351135	54201058
TYPE	COLOR	SEALED/ UNSEALED	APTIV	WML	APTIV	WML
			WHLE ASSEMBLY PART NUMBERS		MATING ASSEMBLY PART NUMBER FOR REFERENCE ONLY	

PART NO	REV	NUT	TYPE	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV
				APTIV		WML		APTIV		WML		APTIV		WML		APTIV	
				ASSEMBLY				CONN				TPA				WATT SEAL	
2300182	01	40	A					2500780-1									
2300113	01	40	B	54201006	W	1571148	W	54201031	W	15127140	W	54201020	W	1-1679755	W	54201050	W
2300112	01	40	B	54201007	W	1571144	W	54201035	W	15127140	W	54201020	W				
2300114	01	40	C	54201008	W	1571718	W	54201036	W	15127140	W	54201020	W				
1542612	01	00	A	54201016	W	1351151	W	54201034	W	15127140	W	54201020	W	1-1679755	W	54201050	W
1549146	01	40	B	54201017	W	1571144	W	54201035	W	15127140	W	54201020	W	1-1679755	W	54201050	W
2300111	01	40	B	54201018	W	1571718	W	54201036	W	15127140	W	54201020	W	1-1679755	W	54201050	W
1351144	01	40	B	54201024	W	1571714	W	54201035						1571718	W	54201052	W
1351149	01	40	A	54201058	W	1351135	W	54201058	W	15127140	W	54201020		1571718	W	54201052	W
1351145	01	40	A	54201058	W	1571714	W	54201036						1571718	W	54201052	W
1351146	01	40	C	54201059	W	1571718	W	54201036						1571718	W	54201052	W
1351147	01	40	D	54201060	W	1571714	W	54201035						1571718	W	54201052	W
PART NO	REV	NUT	TYPE	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	PART NO	REV	CONNECTOR ASSEMBLY TEMPERATURE CLASS PER TM-41008-2 REV 5	
				APTIV		WML		APTIV		WML		APTIV		WML			
				ASSEMBLY				CONN				TPA				WATT SEAL	
																RETAINER	

NOTES

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:
   DIMENSIONS ARE TO FACE OF WIRE SHOWN AND
   TO CENTER OF WIRE SHOWN IN CROSS SECTION
   TOOL WITH MODEL FOR PRECISE DIMENSIONS. FOR ALL
   OTHER DIMENSIONS NOT SHOWN NOT REVISED FOR TOOL
   DIMENSIONS ARE TO FACE OF PART SHOWN IN VIEW.
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, JETTING, SHORT
   FILL, FINAL DIMENSIONS OF THE PART ARE PERMISSIBLE PER EAAP.4.1.25.01.EN.
3. * INDICATED PN ARE W/O MATT SEAL AND RETAINER (MATING PART NUMBERS CHART).
4. ALL NON-SEALED APPLICATIONS MAY BE USED WITH ANY WIRE
   INSULATION THICKNESS WITHIN THE SPECIFIED RANGE
   PROVIDING THAT A TERMINAL GROUP FOR THAT CONDUCTOR
   COMBINATION IS SHOWN ON THE WHLE-TERMINAL DRAWING
   (50 THOU WALL EQUIVALENTS PERMISSIBLE)
   - WIRE CRIMP WIDTH - 4.70
   - WIRE CRIMP HEIGHT - 1.25 (1.20 FOR THIN WALL)
   - INSULATION CRIMP WIDTH - 4.70
   - INSULATION CRIMP HEIGHT - 2.00
   - WIRE INSULATION DIA - 4.20 (3.20 FOR THIN WALL)
5. USE WITH FOLLOWING APPLICABLE COMPONENTS AS NEEDED:
   CAVITY PLUG WHL 54200001-WHL (15)(16)PM
6. DIRECT CONNECT INTERFACE PER WHL 0.06.01.
7. TEST METHOD PERFORMANCE, CONNECTOR ENGAGE & DISENGAGE WITH LATCH
   DEFLECTION FORCE, TERMINAL PULL OUT FORCE FOR THIS SYSTEM
   TPA SEATING FORCES - 75N MAX
   V-WIRE TREE CLIP INSERTION FORCES - 75N. MAX
8. SUPPLIER, WELD & CAVITY I.D. SIGNIFIES TOOL OWNERSHIP.
9. ANNUAL QUALITY REQUIREMENTS:
   IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER WHL
   0.06.01 WITH THE EXCEPTION OF THE ANNUAL PART REVIEW PER WHL
   PN REQUIREMENTS OF 20-4000 SECTION 2 & VALIDATION 2 REV 5.
   - ALL NON-REFERENCE DIMENSIONS ARE REQUIRED
   - USE UNDER A, BLACK SEALED AND UNSEALED FOR ALL AFFECTED
     INSULATION PERMUTATION
   - 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. PIN WITH WHL 54201002-WHL (16)(19)(15) MATT SEAL MUST BE USED WITH WIRE
    INSULATION RANGE FROM Ø 1.70 MM TO Ø 3.70 MAX (12,14,16,18 OR 20 GAGE)
12. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
13. CONNECTOR PN 2500780-1 WAS ANALYZED FOR CREEPAGE & CLEARANCE FOR 48 VOLTS.

PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS PROPRIETARY TECHNICAL INFORMATION AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER PARTIES IN ACCORDANCE WITH APTIV POLICY EXCEPT PURSUANT TO VALID WRITTEN AGREEMENTS.

PART DRAWING

D

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CONNECTOR SYSTEMS
ANDREW, IN 46011 USA
CONNECTOR SYSTEMS DIVISION
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SIZE	D
SCALE	1:1
DATE	
DRAWN BY	MT
CHECKED BY	
ENGINEER	
MANAGER	
DRAWING TYPE	PART DRAWING
DRAWING TITLE	TX1 CONN APEX ZJ-8
SIZE	1549884 6
REV	9
SHEET	1 OF 1

CAUTION: PRODUCT SPECIFICATIONS CONTAINED IN THIS DOCUMENT MAY BE SUBJECT TO CHANGE WITHOUT NOTICE. CONTACT APTIV TO VERIFY CURRENT SPECIFICATIONS.

THIRD ANGLE PROJECTION

SIZE A4 / 297 x 210 mm
REF MATT ✓ 1:1 ✓ 1:2 ✓ 1:4 ✓ 1:5 ✓ 1:10 ✓ 1:20 ✓ 1:50 ✓ 1:100 ✓ 1:200 ✓ 1:500 ✓ 1:1000 ✓ 1:2000 ✓ 1:5000 ✓ 1:10000 ✓ 1:20000 ✓ 1:50000 ✓ 1:100000 ✓ 1:200000 ✓ 1:500000 ✓ 1:1000000 ✓ 1:2000000 ✓ 1:5000000 ✓ 1:10000000 ✓ 1:20000000 ✓ 1:50000000 ✓ 1:100000000 ✓ 1:200000000 ✓ 1:500000000 ✓ 1:1000000000 ✓ 1:2000000000 ✓ 1:5000000000 ✓ 1:10000000000 ✓ 1:20000000000 ✓ 1:50000000000 ✓ 1:100000000000 ✓ 1:200000000000 ✓ 1:500000000000 ✓ 1:1000000000000 ✓ 1:2000000000000 ✓ 1:5000000000000 ✓ 1:10000000000000 ✓ 1:20000000000000 ✓ 1:50000000000000 ✓ 1:100000000000000 ✓ 1:200000000000000 ✓ 1:500000000000000 ✓ 1:1000000000000000 ✓ 1:2000000000000000 ✓ 1:5000000000000000 ✓ 1:10000000000000000 ✓ 1:20000000000000000 ✓ 1:50000000000000000 ✓ 1:100000000000000000 ✓ 1:200000000000000000 ✓ 1:500000000000000000 ✓ 1:1000000000000000000 ✓ 1:2000000000000000000 ✓ 1:5000000000000000000 ✓ 1:10000000000000000000 ✓ 1:20000000000000000000 ✓ 1:50000000000000000000 ✓ 1:100000000000000000000 ✓ 1:200000000000000000000 ✓ 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1:1000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 ✓ 1:2000000000000