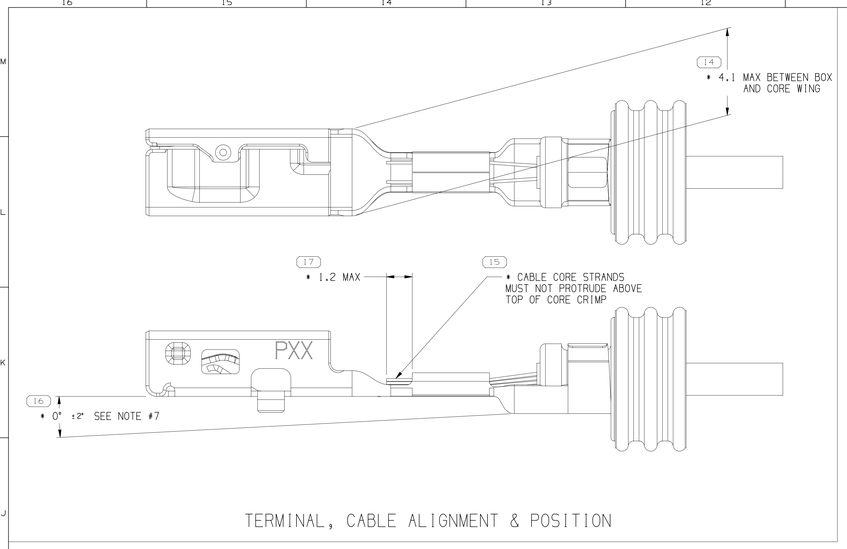
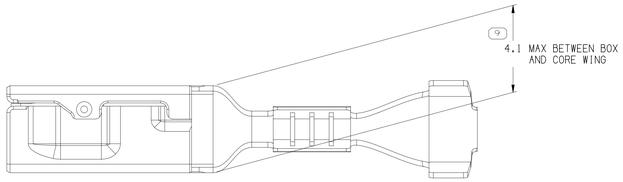
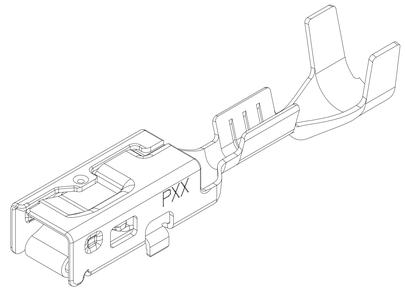



TERMINAL, CABLE ALIGNMENT & POSITION



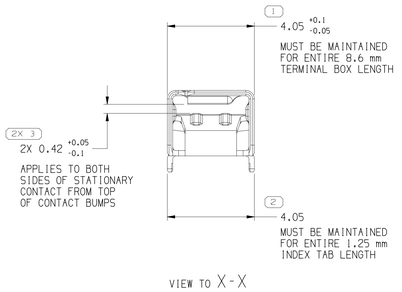




| SYMBOL DEFINITION | | |
|---|---|---|
| A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL ( ) DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING. | TOTAL NO OF INSPECTIONS REQUIRED | 26 |
| | LAST NO. USED | 17 |

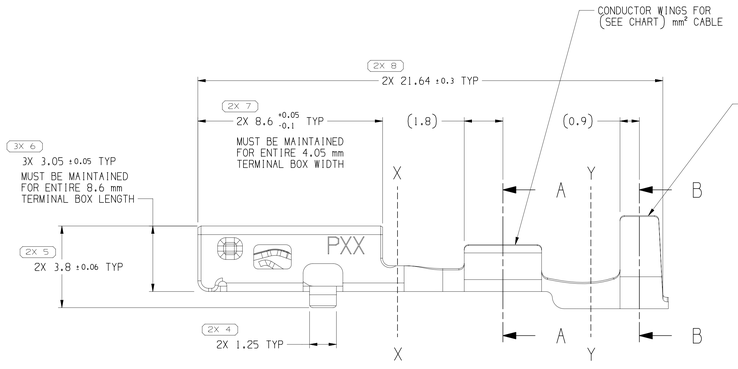
MISSING SYMBOLS

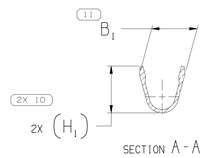
NO MISSING SYMBOL NUMBER

| DWG STATUS DATE | STG | REV | N/P | CHG | ZONE | REVISION HISTORY | AUTH | DR | APVD1 | APVD2 |
|---|---|---|---|---|---|---|---|---|---|---|
| 07MR13 | R | 01 | - | - | | 13919139 - WAS PE211165 AND RELEASED; 13919140 - WAS PE211164 AND RELEASED; 13919141 - WAS PE211165 AND RELEASED; 13919142 - WAS PE207232 AND RELEASED | 421684 | AHG | JVM | RBS |
| 23JL13 | R | 02 | - | - | | ALL PARTS: REVISED | 423302 | MM | MM | RJB |
| 15OC13 | R | 03 | - | - | | ALL PARTS - ADDED NOTE 9 | 424093 | EVV | EVV | RJB |
| 15NO13 | R | 04 | - | - | | ALL PARTS - ADDED TYPICAL CABLE SEAL COLUMN CHART AND REVISED INSULATION CRIMP NOTE | 424621 | APB | EVV | RJB |
| 05JN14 | R | 05 | - | - | | ALL PARTS - ADDED PERFORMANCE REQUIREMENT RATING NOTE | 426671 | APB | EVV | RJB |
| 24NO14 | R | 06 | - | - | | ALL PARTS - REVISED GRAPHICS; 13919140 - CABLE SIZE WAS 1.25 - 2.5 & CABLE DIAMETER WAS 2.05 - 3; 13919142 - CABLE DIAMETER WAS 1.4 - 1.83 | 428259 | APB | APB | RJB |
| 16JA15 | R | 07 | - | - | | 13919139, 13919140, 13919141 - REVISED GRAPHICS | 428687 | APB | APB | RJB |
| 25MR15 | R | 08 | - | - | | ALL PARTS - REVISED GRAPHICS | 429147 | APB | APB | RBS |
| 13AP15 | R | 09 | - | - | | ALL PARTS - REVISED GRAPHICS | 429328 | APB | APB | RBS |
| 25JN15 | R | 10 | - | - | | ALL PARTS - REVISED CRIMP NOTE | 430012 | APB | APB | RDL |
| 06JA16 | R | 11 | - | - | | ALL PARTS - REVISED GRAPHICS | 431435 | APB | APB | RDL |
| 05AP17 | R | 12 | - | - | | ALL PARTS - 2X 0.42 +0.05/-0.1 WAS 2X 0.42 ±0.05 | 436346 | JGM | JGM | GVC |
| 09OC17 | R | 13 | - | - | | ALL PARTS - UPDATED PART AVAILABILITY | 437945 | JVM | JVM | GVC |
| 22JA20 | R | 14 | - | - | | "SHT 1 OF 3" WAS "SHT 1 OF 2" | 550549 | AGC | AGC | RBS |

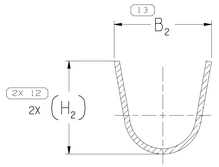



VIEW TO X-X

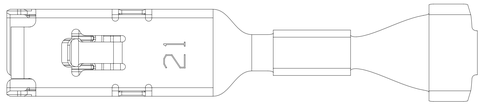



SECTION A-A
VIEW TO X-X




SECTION B-B
VIEW TO Y-Y




NOTES

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:

   DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY ROUNDED BY COMPUTER FOR INSPECTION (SEE MATH MODEL FOR PRECISE DIMENSIONS). FOR ALL OTHER DIMENSIONS NOT SHOWN BUT REQUIRED FOR TOOL BUILD, SEE MATH MODEL FOR PRECISE TOOL PATH DATA.

2. RECOMMENDED MATING BLADE THICKNESS0.8 +0.4/-0.03 mm
   RECOMMENDED MATING BLADE WIDTH NOT TO EXCEED 2.9 mm AND NO LESS THAN 2.4 mm. SEE USCAR EWCAP-001 DRAWING (2.8 BLADE) FOR OTHER MATING BLADE REQUIREMENTS.

3. DO NOT PROBE, TEST OR OTHERWISE CONTACT THE INTERIOR REGION (THE SPRING OR ANY MOVING PART) OF THIS TERMINAL. SEVERE DAMAGE CAN OCCUR, COMPROMISING THE PERFORMANCE OF THE ELECTRICAL INTERFACE.

4. "PXX" INDICATES "P" PLUS LAST TWO DIGITS OF MAKE DIE SERIES NUMBER (P01, P02, P03, ETC).

5. MAXIMUM CURRENT CAPACITY AS DEFINED BY USCAR-2 R5 SECTION 5.3.3 IS 29 AMPS WITH 3.0 mm² COPPER CABLE.

6. * DENOTES DIMENSIONS MADE CUT-OFF AND CRIMP DIE.

7. PLUS ANGLE IS WING BOTTOM SURFACE ROTATED COUNTERCLOCKWISE AGAINST THE BOX BOTTOM SURFACE.

8. PLATING TYPE:

   1. REFLOW TIN 1.9 - 3.3 MICROMETERS THICK OVER NICKEL UNDERPLATE 0.13 - 0.5 MICROMETERS THICK.

   PLATING TYPE INFORMATION SHOWN ABOVE IS FOR REFERENCE ONLY. PLATING REQUIREMENTS ARE CONTAINED IN APPLICABLE MATERIAL SPECIFICATIONS.

9. MAXIMUM INSULATION CRIMP WIDTH OF 5.50mm AND HEIGHT 4.80mm FOR CABLE SIZE UP TO 3.4mm O.D. WHEN USED WITH 6.1mm O.D ROUND CAVITY, MAXIMUM CORE WING CRIMP WIDTH OF 4.35mm.

   WHEN USED WITH 6.4mm HEIGHT AND 5.15mm WIDTH OVAL CAVITY, MAXIMUM INSULATION CRIMP WIDTH OF 4.85mm AND HEIGHT 5.00mm FOR CABLE SIZE UP TO 3.4mm O.D.

10. PARTS MEET THE PERFORMANCE REQUIREMENTS OF GMW3191 DEC2007 AND SAE/USCAR-2 R5 REVISIONS FOR THE FOLLOWING CLASSIFICATIONS:

    TEMPERATURE CLASS 3 (-40°C TO +125°C)
    VIBRATION CLASS 1 (ON BODY OR CHASSIS)
    VIBRATION CLASS 2 (ON ENGINE) FOR SAE/USCAR-2 ONLY
    SEALING CLASS 2 OR 3 (SEALED - CONNECTOR & CABLE SEAL DEPENDENT)

| PART NO | REV | N/P | MAT'L SPEC | MATERIAL THICKNESS | CONTACT AREA PLATING TYPE (SEE NOTE 8) | CRIMP AREA PLATING TYPE (SEE NOTE 8) | ID | CABLE SIZE (MM²) | CABLE DIAMETER | $B_1$ ±0.15 | $B_2$ ±0.2 | $(H_1)$ | $(H_2)$ | TYPICAL CABLE SEAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13919139 | 05 | AA | TIN PLATED COPPER ALLOY | 0.25 | 1 | 1 | 13 | 2.0 - 3.0 | 2.3 - 3.4 | 3.9 | 6.2 | 4.1 | 5.9 | 13834635 |
| 13919140 | 05 | AA | TIN PLATED COPPER ALLOY | 0.25 | 1 | 1 | 14 | 1.5 - 2.5 | 2.0 - 3.0 | 3.5 | 6 | 3.6 | 5.6 | 13834635 |
| 13919141 | 05 | AA | TIN PLATED COPPER ALLOY | 0.25 | 1 | 1 | 17 | 0.75 - 1.0 | 1.7 - 2.3 | 2.7 | 5 | 2.7 | 4.9 | 13834634 |
| 13919142 | 05 | AA | TIN PLATED COPPER ALLOY | 0.25 | 1 | 1 | 21 | 0.35 - 0.5 | 1.2 - 1.83 | 2.1 | 4.5 | 2.2 | 4.3 | 13834633 |

( 1 ) PROCESS SENSITIVE DIMENSION

DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED

| DIMENSIONAL RANGE (MM) FROM TO | 0 TO 12 | >12 |
|---|---|---|
| TOLERANCE UNLESS OTHERWISE SPECIFIED | ±0.1 | ±0.2 |
| ANGULAR TOLERANCE ±2° | | |

A ——— LINE DRAWN THROUGH A PART NUMBER INDICATES THAT PHYSICAL PARTS ARE NOT AVAILABLE FOR ORDERING.

PART NUMBERS THAT DO NOT HAVE A LINE PRESENT INDICATE THAT PHYSICAL PARTS ARE AVAILABLE FOR ORDERING.

CONTACT APTIV SALES TO ASSURE AVAILABILITY OF PARTS.

DWG TYPE: PART DRAWING

STYLE

VOLUME (CM³) | DISTR CODE

UNLESS OTHERWISE SPECIFIED

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM-2001. SEPARATE PATTERNS OF FEATURES MAY BE DATED SEPARATELY REGARDLESS OF DATUM REFERENCES.

ALL DIMENSIONS ARE IN MILLIMETERS

REFERENCE

THIRD ANGLE PROJECTION

DO NOT SCALE — USE MATH DATA

NX

**•APTIV•**

CONNECTION SYSTEMS
WARREN, OH

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| | DATE |
|---|---|
| DR | |
| APVD1 ARMANDO HERNANDEZ | 07MR13 |
| APVD2 J. VILLAMIL | 07MR13 |
| APVD3 ROBERT B. SNADER | 07MR13 |
| APVD4 | |
| APVD5 | |

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER APTIV 1094901

MATERIAL: SEE CHART

DRAWING NAME: TAXI TERM F OCS 2.8 SN SEALED

DRAWING NUMBER: 13887281

| SIZE | SCALE | FRAME NO | SHEET NO | STG | REV | N/P |
|---|---|---|---|---|---|---|
| A0 | 10:1 | 1 OF 1 | 1 OF 3 | R | 14 | - |

Uncontrolled Copy if Printed
Plotted: 03-Nov-20 Time: 13:14:57
Path: I:\3D\3887281_C1.SLDDRW