

— ASSEMBLED SEAL RETAINER MUST BE LOCKED IN POSITION ASSEMBLED INNER CONNECTOR -6.85 ±0.65 — CPA IN PRESTAGE POSITION (4X 3) 4X 6 ±0.7 $-- | - 0.99 \pm 0.6$ INNER CONNECTOR WITH -— CPA MUST BE RETAINED IN SHUNT AND SHIELDS MUST BE RETAINED IN PRESTAGE POSITION OUTER HOUSING CPA - SEE CHART SHUNT - SEE CHART INNER CONNECTOR - SEE CHART-- OUTER HOUSING - SEE CHART 2X SHIELD - SEE CHART -7.5 ALL AROUND SEAL RETAINER - SEE CHART-SEALING SURFACE MUST BE FREE OF DEFECTS, PARTING LINES, MOLD MISMATCH AND BLEMISHES CONNECTOR SEAL AND SEAL RETAINER CONN SEAL - SEE CHART MUST BE RETAINED IN OUTER HOUSING SECTION A - A

SYMBOL DEFINITION

A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL

DOES NOT REQUIRE INSPECTION. IT MAY BE

CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.

NOTES

EXCEPT AS SHOWN

>PBT-GF20 HS<

TYPE 104

SAME AS TYPE 101

EXCEPT AS SHOWN

8

-(12)

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. MINIMUM CREEPAGE DISTANCE = 15.68MM - ASSESSED PER IEC60664 WITH POLUTION DEGREE = 2 OR 3, WHEN CONNECTOR IS FULLY MATED - CREEPAGE PATH: BACK OF MALE POWER TERMINAL IN CAVITY 1 OR 2 TO BACK OF MALE POWER TERMINAL IN CAVITY 3 OR 4 (OR VICE VERSA) IN MALE INNER CONNECTOR
- 3. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
- 4. PARTS MEET THE PERFORMANCE REQUIREMENTS OF SAE/USCAR-2 R6, SAE/USCAR-37 AUG 2008 FOR THE FOLLOWING CLASSIFICATIONS: 1. TEMPERATURE CLASS 3 (-40°C TO 125°C)
 - 2. VIBRATION CLASS 1 (ON BODY OR CHASSIS) 3. SEALING CLASS 3 (P/V LEAK/SUBMERSION/HIGH PRESURE SPRAY)
- 5. PART MUST BE FREE OF DUST, DIRT, CARDBOARD FIBER, LOOSE METAL SLIVERS, OR ANY PARTICULATE MATTER THAT MAY CAUSE FIT OR FUNCTION CONCERNS.

- 6. PARTS MUST BE APPROPRIATELY PACKAGED TO AVOID ANY DAMAGE DURING SHIPPING OR HANNDLING. THE SHIPPING CONTAINER MUST BE LINED WITH PLASTIC LINERS. BAGS OR LINERS MUST BE SEALED TO AVOID FOREIGN MATTER.
- 7. WIRING SUPPLIER MUST VERIFY AND COMPLETE CABLE ASSEMBLY VALIDATION, IN COORDINATION WITH CONNECTION SYSTEM SUPPLIER. THIS WOULD INCLUDE ENVIRONMENTAL (SEALING) AND CRIMP VALIDATION STUDIES FOR SELECTED CABLE/TERMINAL/FERRULE COMBINATIONS.
- 8. ELECTRIC VEHICLE CHARGING AND OTHER HEAVY DUTY CYCLE APLICATIONS CARRYING >25A REQUIRE THE FOLLOWING:
- MIN 5.0 MM2 COPPER CONDUCTORS. - TERMINAL TO CONDUCTOR INTERFACE RESISTANCE <2.0 MILLIOHMS FULL STOP SOLDERED CRIMPS ARE RECOMMENDED - TERMINAL TEMPERATURES NEED TO BE MEASURED IN THE VEHICLE APPLICATION TO ENSURE
- T-RISE OVER AMBIENT IS <35°C AT MAX. STEADY STATE CURRENT. 9. CAUTION: HARNESS ASSEMBLIES SHOWN CAN MATE TO MULTIPLE HEADER ASSEMBLIES AS SHOWN ON TAXI'S 33300637 & 35161786. INDEXING MUST BE VERIFIED WHEN MULTIPLE HEADER ASSEMBLIES
- ARE USED. PLEASE SEE INDIVIDUAL APPLICATION DRAWING FOR MATING CONNECTOR DETAILS.
- 10. REFERENCE MANUAL 33357995 FOR ASSEMBLY/DISASSEMBLY INFORMATION.

35061571	01	AC	104	35012463	35029283	35134402	33299862	33318422	33299844	33125204
35061568	01	AC	103	35012462	35029283	35134402	33299862	33318422	33299844	33125204
33314148	01	AC	102	33300626	35029283	35134402	33299862	33318422	33299844	33125204
33314147	01	AC	101	33299843	35029283	35134402	33299862	33318422	33299844	33125204
PART NO	REV	N/P	TYPE	OUTER HOUSING	INNER CONNECTOR	CONN SEAL	CONN SEAL RETAINER	SHIELD (QTY: 2)	SHUNT	CPA

LINE DRAWN THROUGH A PART NUMBER INDICATES THAT PHYSICAL PARTS ARE NOT AVAILABLE PART NUMBERS THAT DO NOT HAVE A LINE PRESENT INDICATE THAT PHYSICAL PARTS ARE AVAILABLE FOR ORDERING. CONTACT APTIV SALES TO ASSURE AVAILABILITY PART DRAWING VOLUME (CM³) UNLESS OTHERWISE SPECIFIED HIS 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 GAGED SEPARATELY REGARDLESS OF DATUM REFERENCES. LL DIMENSIONS ARE IN MILLIMETERS (N/A) PROCESS SENSITIVE DIMENSION

MISSING SYMBOLS

TOTAL NO OF

INSPECTIONS

REQUIRED

LAST NO. USED

NO MISSING

SYMBOL NUMBER

DWG STATUS

|12FE18| R | 01 |

31AU18 R | 02 |

auth | dr |apvd|apvd

| 436187 | AGC | AGC | TM |

| 440891 | GDH | JAA | TM | M |

| 441528 | AGC | AGC | TM |

|441703|AHG|AHG|TM|

REVISION HISTORY

ALL PARTS - RELEASED PART DRAWING

ALL PARTS - 4X 6±0.7 WAS 6±0.7, DIM#2

GD&T POS CONTROL WAS + 0.1 M A B C

ADDED NOTES #4-10; REMOVED "MATING" NOTE, REVISED "MINIMUM CREEPAGE DISTANCE" NOTE;

ALL PARTS - REVISED DIM #19, "PARTS PERFORMANCE", "CABLE ASSEMBLY VALIDATION" & "CAUTION" NOTES

ALL PARTS - REVISED HEADER IN CHART WAS "CHAMPLAIN ISO CABLE - SEE NOTE 7".

33314147-48 - UPDATED PART AVAILABILITY

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SEĒ CHART

THIRD ANGLE DO NOT () PROJECTION SCALE USE MATH DATA

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

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER APTIV 10949001 TAXI ASM CONN 4 F H/VOLTAGE SLD A0 | 2:1 | 1 OF 1 | 1 OF 2 | R | 04 |