

OPTIONAL 7

SECTION A-A
SHOWN WITH CAVITY PLUG
(ALL SEALING RIBS MUST BE
PUSHED IN TO FULLY ENGAGE)

SECTION H-H

OPTIONAL

4 1 3 2 5 6

REF. ONLY SECTION A-A
SHOWN WITH TERMINAL REF. ONLY

8 (ASSEMBLY DATE CODE
APPLIED IN THIS LOCATION)

24.50 9

32.14 ± 1.00 7 K

(9.90)

16.50 ± 0.50 10

11 17.47^{+0.10}_{-0.25}

A

AXX

35456898 - VDI VIEW

35457174 - VDI VIEW

35457175 - VDI VIEW

EXPLODED SCALE

HOUSING F313100 SHOWN WITH CAVITIES 1 & 2 MOLDED-OVER (K)

SCALE 3:1

NOTES:

- 1) VALIDATED TO SAE/USCAR-2 REV 5 WITH THE FOLLOWING EXCEPTION(S):
- SECTION 5.4.2 (Connector-Connector Mating/Unmating Force)
>95N (UN-MATING FORCE FROM DEVICE)
- 2) VALIDATED TO THE FOLLOWING TEMP, VIBRATION, AND SEALING CLASSES:
- GMW3191 SECTION 4.28 V4 T4 (155°C) WITH GOLD OR SILVER TERMINALS
- SAE/USCAR-2 V3 T4 (150°C) WITH GOLD OR SILVER TERMINALS
- SAE/USCAR-2 V3 T3 (125°C) / V2 T4 (150°C) WITH TIN/SILVER TERMINALS
- SAE/USCAR-2 V2 T3 (125°C) WITH TIN TERMINALS
- SAE/USCAR-2 SEALING S3 T4 (150°C) (ISO16750 9K EQUIVALENT)
- 3) CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
- **APTIV** APEX 1.2 TERMINALS LISTED IN THE APPLICABLE COMPONENTS CHART OF THIS DRAWING WITH WIRE SIZES DEFINED IN NOTE 4.
- SEE **APTIV** DRAWING C18001-1-2-CUST FOR SPECIFIC TERMINAL DETAILS AND CRIMPING REQUIREMENTS
- PLATING OF TERMINALS AND MATING DEVICE BLADES MUST BE COMPATIBLE
- 4) CONNECTOR SYSTEM VALIDATED TO USCAR-2 REQUIREMENTS WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES IN CONJUNCTION WITH APPROPRIATE COMPONENTS FOUND IN THE "APPLICABLE COMPONENTS" CHART:
AWG - WIRE SIZES: 22AWG - 16AWG
INSULATION DIAMETER: 1.50mm MIN - 2.41mm MAX
WIRE TYPE: MIL-123-A, MS-8288, MS-9502 OR EQUIVALENT
(STRUCTURE AND PROPERTIES ACCORDING TO SAE J1128)
METRIC - WIRE SIZES: 0.35mm² - 1.25mm²
INSULATION DIAMETER: 1.20mm MIN - 2.30mm MAX
TYPE/STANDARD: FLR2X, FLR9X OR EQUIVALENT
(STRUCTURE AND PROPERTIES ACCORDING TO ISO 6722)

CONTACT **APTIV** ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND/OR TYPES

WIRE AND INSULATION TYPE MUST BE APPROPRIATE FOR TEMPERATURE CLASS & APPLICATION ENVIRONMENT

- 5) CONNECTOR IS MATE COMPATIBLE WITH DEVICES WHICH CONFORM WITH THE FOLLOWING USCAR INTERFACE SPECIFICATIONS:
- 120-S-004-1-Z01 (WITH EWCAP-001 TYPE 120-T BLADES)
- 120-S-004-1-Z02 (WITH EWCAP-001 TYPE 120-T BLADES)
- 6) ANNUAL QUALITY REQUIREMENTS:
- IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER DELPHI SPECIFICATION #AQA-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF ISO TS16949 AND SAE/USCAR-2 REV 5. FOR TERMINAL TO CONNECTOR AND TPA TO CONNECTOR ONLY.
- 7) SOURCE ID, MOLD & CAVITY ID SIGNIFIES TOOL OWNERSHIP, FOR REFERENCE
- 8) (K) INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.

