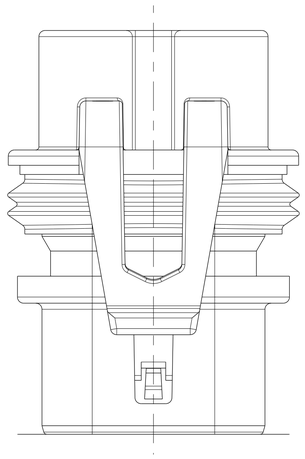
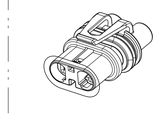
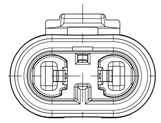
COMPONENTS LIST						
CONNECTOR PART NUMBER	CONFIGURATION	NHTSA DEFINITION (FOR REFERENCE ONLY)	CEI 60061-1 STANDARD (FOR REFERENCE ONLY)	PART NUMBERS		
				#1 TPA	#1 TPA COLOR	#2 HOUSING (BLACK)	#3 SEAL (BLUE)
F412210	9012 / HIR2	NHTSA-1998-3397-0003	7004-32-2	F612210	BROWN	F512210	240M041
F908310	9005 / HB3	NHTSA-1998-3397-0012	7004-31-2	F257210	BLACK		

APPLICABLE COMPONENTS								
ITEM DESCRIPTION	PLATING OR COLOR	FORD COMP PART NUMBER	SUPPLIER	FCI / SUPPLIER PART NUMBER	GRIP CODE	WIRE SIZE	WIRE INSULATION DIAMETER RANGE	MATERIAL
APEX 2.8 FEMALE TERMINAL	SILVER	-	FCI	F820310	14	14 AWG 1.50-2.50mm²	2.20mm-3.00mm	COPPER ALLOY
2.80mm SYSTEM CABLE SEAL ROUND	BLUE	8U5T-14603-NA	FCI (QSR)	F576000	-	14 AWG 1.50-2.0mm²	2.20mm-2.80mm	SILICONE
2.80mm SYSTEM CABLE SEAL ROUND	YELLOW	BU5T-10C930-HA	FCI	60994034	-	2.5mm²	2.50mm-3.00mm	SILICONE

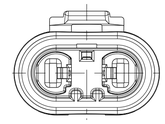




SCALE 1:1

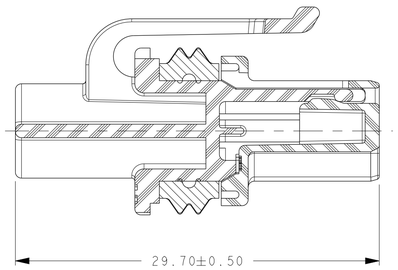


CONFIGURATION 9012 / HIR2
SCALE 2:1



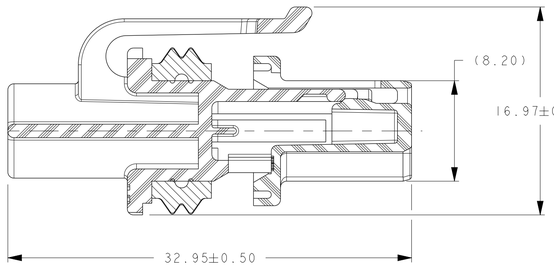
CONFIGURATION 9005 / HB3
SCALE 2:1

POLARIZATION OPTIONS

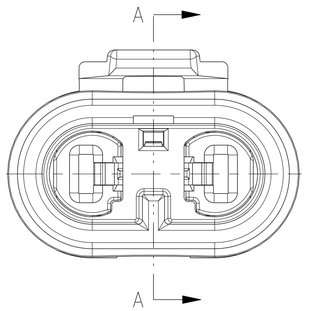


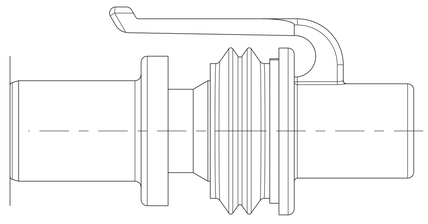
29.70±0.50

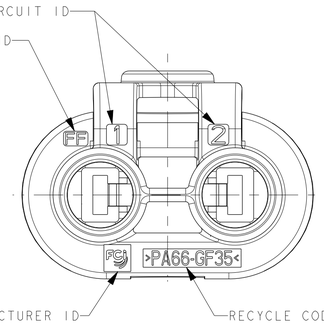
SECTION A-A
TPA SHOWN
IN LOCKED POSITION

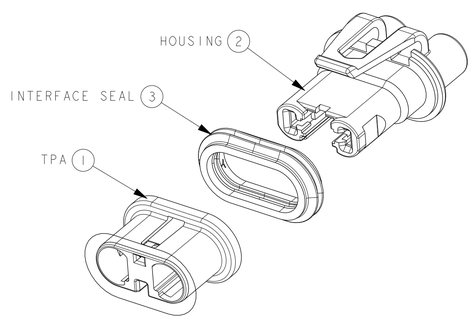


SECTION A-A
TPA SHOWN
IN OPEN POSITION

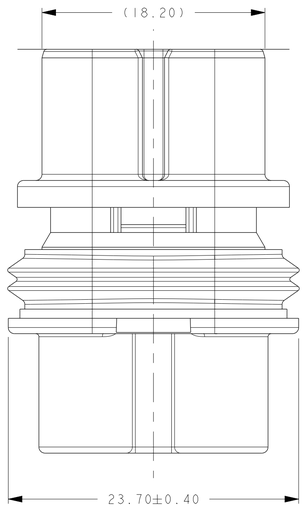








EXPLODED VIEW
SCALE 2:1



NOTES UNLESS OTHERWISE SPECIFIED:

1. BULB HEATING EFFECT IN LIGHTING APPLICATIONS MUST BE CONSIDERED BY THE SPECIFYING PARTY AS TO APPROPIATE WIRE, CABLE SEAL, AND TERMINAL SELECTION AND FOR EACH LIGHTING SYSTEM'S VALIDATION TESTING. USE OF LARGEST CONDUCTOR WIRE WITH 150°C RATING IS STRONGLY RECOMMENDED IN ALL BULB OR OTHER SELF-HEATING APPLICATIONS.

2. TEST METHOD PER: GMW3191 V1 / S3 / T4 (150°c) MATED TO HIR2 BULB, UNPOWERED (BULB HEATING EFFECT NOT INCLUDED) WITH THE FOLLOWING EXCEPTIONS:
   - GMW3191 4.29 SUBMERSION: @185°C
   - GMW3191 4.21 THERMAL AGING: CONNECTOR @150°C, BULB ENVELOPE @100°C, 2000 HOURS, 9012/HIR2 BULB POWERED @13.0VDC

3. CONNECTOR TO BE USED WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES:
   - WIRE SIZES: 1.50mm² - 2.50mm² AND 14 AWG
   - OUTSIDE DIAMETER: 2.20MM MIN O.D. TO 3.00MM MAX O.D.
   - TYPE/STANDARD: MS-9502, ES-AU5T-1A348-AA Class 4, ISO6722 Class D
   - TEMP RATING: 150°C MINIMUM
   CONTACT FCI ENGINEERING REGARDING USE OF OTHER WIRE SIZES OR TYPES. SEE NOTE #1.

4. SEE FCI DRAWING C15004-CUST FOR TERMINAL CRIMPING REQUIREMENTS.

5. CONNECTOR IS MATE COMPATIBLE WITH BULBS/INTERFACES WHICH CONFORM TO THE STANDARDS SHOWN IN THE CHART.

6. ANNUAL QUALITY REQUIREMENTS:
   IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER FCI SPECIFICATION AQA-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF QS-9000 SECTION 2 AND SAE/USCAR-2.

12-00611	-	INITIAL RELEASE
ECN-NO.	ZONE	CHANGE DESCRIPTION

TOLERANCES	-	MATERIAL : SEE TABLE	SURFACE FINISH -
COUNTERPART №	-	COLOUR : SEE TABLE	SURFACE FINISH -
DO NOT MEASURE DRAWING		TOOL NO. -	ECO Loc. Code AN

CAD SYSTEM: pro / eng.
3RD ANGLE
DIMENSION IN MILLIMETERS
DWG SIZE: A1

	DATE	NAME
CREATED BY	2012/04/25	Frank HOLUB
MODIFIED BY	2012/06/08	Frank HOLUB
CHECKED BY	2012/06/08	R RAMASWAMY
APPROVED BY	2012/06/08	Jeff CAMPBELL

TITLE: 2W Female Connector
PROJECT: HIR2/HB3 BULB CONNECTOR
ESR NO. - | CAT. NO. -
DOCUMENT UNDER PDS CONTROL NO MODIFICATION ALLOWED OUTSIDE

DRAWING NUMBER PCC0783031 REV. A
STATE SERIAL RELEASED
PART NUMBER See Table REV. -
FILE NAME PCC0783031

APPROVAL LEVEL -
SHEET 1 of 1
SCALE 4.00

EUR CDA 112 F29 PDS

Mouser Electronics

Authorized Distributor

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Aptiv:

F908310 33503725 33503726