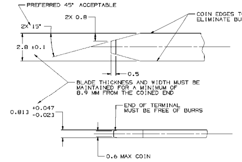


MATERIAL SPECIFICATIONS

RECOMMENDED
BASE METAL - CDA-210, GILDING, EXTRA SPRING TEMPER
PLATING - 0.0050 ± 0.0025 MM THK TIN

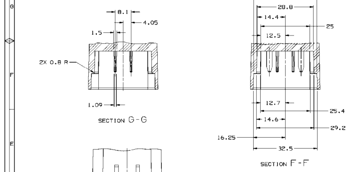
MINIMUMS
ELECTRICAL CONDUCTIVITY - ≥ 20% IACS AT 20°C. USE OF A MATERIAL WITH CONDUCTIVITY < 20% IACS MUST BE APPROVED BY DELPHI PACKARD ELECTRIC MATERIALS ENGINEERING.

TENSILE STRENGTH - 407 MPa
PLATING - FOR LOW ENERGY (≤ 5V) AND NON-PASSENGER COMPARTMENT POWER CIRCUITS, 0.0050 ±0.0025 MM THICK TIN. FOR MATERIALS CONTAINING 10% OR MORE ZINC, AN UNDERPLATE OF COPPER 0.0050 ±0.0025 MM THICK IS REQUIRED.

BLADE THICKNESS
UNPLATED = 0.813 ± 0.025
TIN PLATED = 0.823 ± 0.030

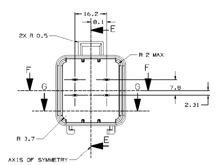
MATING BLADE INFORMATION

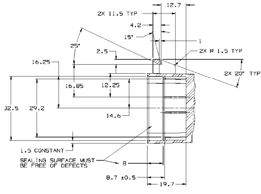
SCALE 10:1



SECTION G-G

SECTION F-F

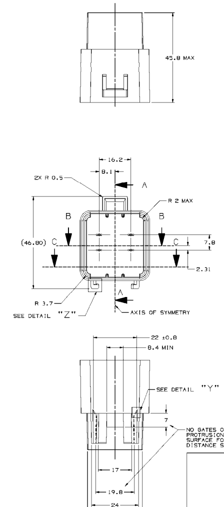


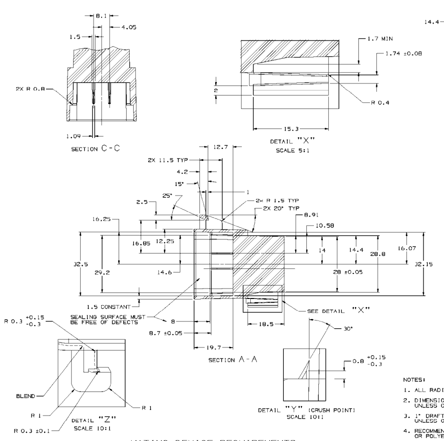


SECTION E-E

MATING SHROUD REQUIREMENTS

REQUEST THE LATEST INFORMATION FOR THE MATING SHROUD FROM DELPHI PACKARD ELECTRIC
SEE NOTE 1





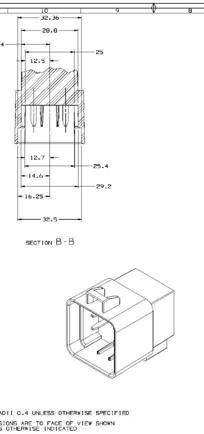
SECTION C-C

DETAIL "X" SCALE 5:1

SECTION A-A

DETAIL "Z" SCALE 10:1

DETAIL "Y" (CRUSH POINT) SCALE 10:1



SECTION B-B

MATING DEVICE REQUIREMENTS

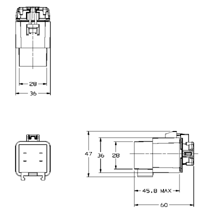
(RELAY APPLICATIONS)
REQUEST THE LATEST INFORMATION FOR THE MATING DEVICES FROM DELPHI PACKARD ELECTRIC
SEE NOTE 1

NOTES:

1. ALL RADII 0.4 UNLESS OTHERWISE SPECIFIED
2. DIMENSIONS ARE TO FACE OF VIEW SHOWN UNLESS OTHERWISE INDICATED
3. 1° DRAFT ON ALL OUTSIDE SURFACES UNLESS OTHERWISE SPECIFIED
4. RECOMMENDED MATERIAL - GLASS FILLED NYLON OR POLYESTER.
5. WHEN USING THIS INFORMATION FOR A NEW DESIGN, REQUEST THE LATEST COPY OF THIS PRINT FROM DELPHI PACKARD ELECTRIC

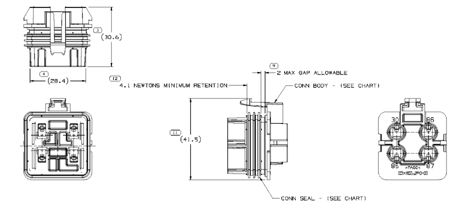
SYMBOL DEFINITION			MISSING SYMBOLS
A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL ( ) DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED	5	1-2 5-8 10 13-14
	LAST NO. USED	14	

DATE	STG	REV	N/P	CHG	ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
02JN04	R	03	-	-		UPDATED FORMAT. UPDATED BASE CONNECTORS. UPDATED NOTES. CONVERTED MATING INFORMATION TO REFERENCE.	254871	LLJ	LLJ	TM
24JA05	R	04	-	-		OBSOLETED PART 12162331; PART 12129716 ADDED NOTE 10; CONNECTOR SEAL WAS 12065663; REMOVED SECTION VIEW D-D; REVISED DIMS 3 AND 4 TO REFERENCE; REMOVED DIMS 1,2,5,6,7,8,10,13 AND 14	263412	RH	RH	MR
15MR07	R	05	-	-		UPDATED PDM ATTRIBUTES	400792	MM	MM	TM
10SE12	R	06	-	-		ADDED APPLICATION DRAWING NOTE	419572	AAS	JRV	AAS



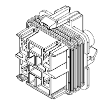
280 SEALED RELAY ASSEMBLED DIMENSIONS

ALL DIMENSIONS ARE REFERENCE, EXCEPT AS NOTED
SCALE 1:1



NOTES:

1. MATING COMPONENT DIMENSIONS SHOWN ARE REFERENCE ONLY. WHEN USING THIS INFORMATION FOR A NEW DESIGN, REQUEST THE LATEST MATING INFORMATION FROM DELPHI PACKARD ELECTRIC. REVIEW LATEST MATING SHROUD & DEVICE COMPONENT PRINTS FOR ACTUAL DIMENSIONS.
2. WHEN PARTS ARE SHIPPED, THEY MUST BE PACKED IN EITHER PLASTIC BAGS OR SHIPPING CONTAINERS LINED WITH PLASTIC LINERS. BAGS OR LINERS MUST BE SEALED TO AVOID ENTRY OF FOREIGN MATTER
3. FOR LEAD LENGTH CALCULATIONS, DISTANCE FROM MATING END OF CONNECTOR TO FRONT OF CABLE CORE IS 15.05/11.65
4. SEALING CODE 2 - DESIGN WILL PASS SALT FOG TEST AFTER CONDITIONING AS SPECIFIED IN ESA-644 (WEATHER-PACK), ESA-710 (METRIC-PACK), ESA-650 (UNDERHOOD MICRO-PACK), C-4006 (WORLD CONNECTOR), ETC WHEN MATED TO MATING PART OR EQUIVALENT.
5. 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 DIMENSION)
6. NO PROCESSING OIL ALLOWED TO BE ADDED TO AID IN THE APPLICATION OF THE SEAL TO THE CONNECTOR
7. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.



PART NO	REV	N/P	STATUS	CONNECTOR BODY	CONNECTOR SEAL
12162331	A2	-	-	12162330	12065663
12129716	02	AB	-	12110787	15409460

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 DELPHI SALES TO ASSURE AVAILABILITY OF PARTS.

DWG TYPE: PART DRAWING
STYLE:
VOLUME (CAP):
DISTR CODE: D

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 GAGED SEPARATELY REGARDLESS OF DATUM REFERENCES.
ALL DIMENSIONS ARE IN MILLIMETERS

REFERENCE:

THIRD ANGLE PROJECTION

DO NOT SCALE — USE MATH DATA

DELPHI
DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE
WARREN, OH

COPYRIGHT 1994 DELPHI CORPORATION AND/OR ITS AFFILIATES. ALL RIGHTS RESERVED. REVISED 2012
THIS DRAWING IS THE PROPERTY OF DELPHI CORPORATION. THE REPRODUCTION, DISTRIBUTION AND UTILIZATION OF THIS DOCUMENT OR ITS RELATED CAD MATH DATA, AS WELL AS COMMUNICATION OF ANY CONTENT TO OTHERS, WITHOUT EXPRESS AUTHORIZATION IS PROHIBITED.

		DATE
DR		
APVD1	HENRY HOKE	30JN94
APVD2	HENRY HOKE	30JN94
APVD3	TOM MADDEN	04JN04
APVD4		
APVD5		

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001

MATERIAL: SEE DRAWING

DRAWING NAME: TAXI ASM CONN F M/P 280 SLD FLXLK

DRAWING NUMBER: 12162459

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	2:1	1 OF 2	1 OF 1	R	06	-

DRAWING NUMBER: 12162459

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	2:1	2 OF 2	1 OF 1	R	06	-

12162459