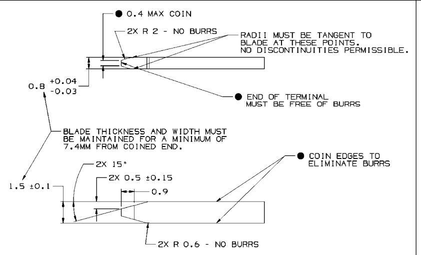
KEY PRODUCT CHARACTERISTIC SYMBOLS (○,◇) INDICATE PRODUCT CHARACTERISTICS THAT REQUIRE SPECIAL CARE, DOCUMENTATION, AND ACCEPTANCE CRITERIA PER GM 1805 QN AND DELPHI PACKARD ELECTRIC SYSTEMS PROCEDURES.	
KEY PRODUCT CHARACTERISTICS	
○ SAFETY/COMPLIANCE	◇ FIT/FUNCTION
TOTAL ON DRAWING	2
LAST NUMBER USED	2

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	11	NO MISSING SYMBOL NUMBER
	LAST NO. USED	9	

DWG STATUS DATE	STG	REV	N/P	CHG	ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
06JN07	R	01	-	-		CREATED PART DRAWING	401591	PCP	PCP	BDG
29JN11	R	02	-	-		ALL PARTS - ADDED APPLICATION DATA NOTE & 13894197 - RELEASED	414660	ARC	ARC	MAL
16AP12	R	03	-	-		12059110 - OBSOLETE AND ADDED "REPLACED BY" COLUMN; 13894197 - OBSOLETE; 13957519, 13952626 - RELEASED	417802	AHG	JVM	MMD
25AP12	R	04	-	-		ALL ACTIVE PARTS - UPDATED PDM ATTRIBUTES	417939	JCF	JVM	MMD



● THESE DIMENSIONS ARE CRITICAL TO THE MECHANICAL AND ELECTRICAL PERFORMANCE OF THE CONNECTION SYSTEM.

MATERIAL SPECIFICATIONS

RECOMMENDED

BASE METAL - CDA-210, EXTRA SPRING TEMPER

- TIN PLATING (WHERE APPLICABLE TO 125°C MAX CONTINUOUS USAGE): 0.0050±0.0025 MM (200±100 μIN) ELECTROPLATED TIN.
- USAGE OF PLATING TYPES OTHER THAN RECOMMENDED MUST BE APPROVED BY DELPHI PACKARD ELECTRIC SYSTEMS ENGINEERING.

MINIMUMS

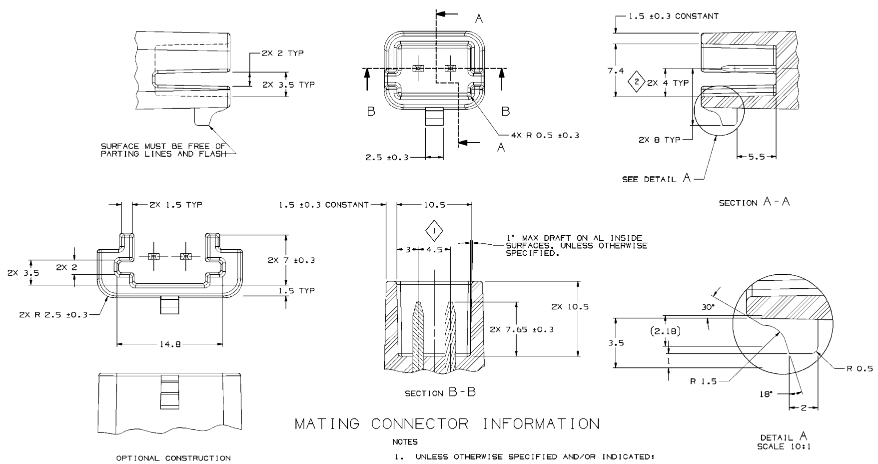
ELECTRICAL CONDUCTIVITY - ≥28% IACS AT 20°C. USE OF A MATERIAL WITH CONDUCTIVITY <28% IACS MUST BE APPROVED BY PACKARD ELECTRIC MATERIALS ENGINEERING.

TENSILE STRENGTH - 430 - 480 MPa

UNDERPLATING FOR TIN PLATING - FOR BASE MATERIALS CONTAINING 10% OR MORE ZINC, AN UNDERPLATE OF COPPER 0.0025 MM (100 μIN) MINIMUM THICK IS REQUIRED.

PROCESSING LUBRICANT - ANY PROCESSING LUBRICANT REMAINING ON TERMINALS MUST NOT VARNISH OR DEGRADE THE ELECTRICAL PERFORMANCE OF THE CONNECTION UP TO A MAXIMUM TEMPERATURE OF 150°C. PROCESSING LUBRICANTS MUST BE APPROVED BY DELPHI PACKARD ELECTRIC SYSTEMS ENGINEERING.

MATING BLADE INFORMATION

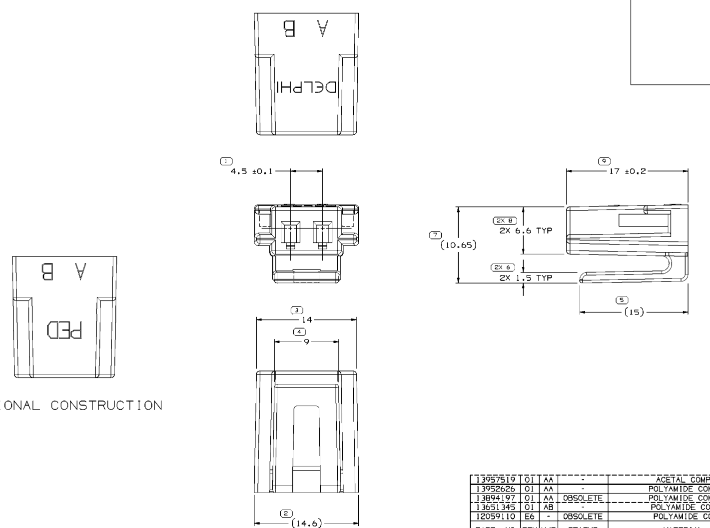


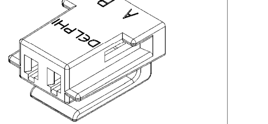
MATING CONNECTOR INFORMATION

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.
   ALL RADII 0.4
   DRAFT IS 1° ON ALL OUTSIDE SURFACES
2. KEY PRODUCT CHARACTERISTIC SYMBOLS (○, ◇) INDICATE PRODUCT CHARACTERISTICS THAT REQUIRE SPECIAL CARE, DOCUMENTATION, AND ACCEPTANCE CRITERIA PER GM TARGETS FOR EXCELLENCE.
3. RECOMMENDED MATERIAL:
   GLASS REINFORCED NYLON OR POLYESTER





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. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
3. THIS PRODUCT IS NOT CATEGORIZED AS AN APPEARANCE ITEM. MINOR IMPERFECTIONS INCLUDING, BUT NOT LIMITED TO, FLOW MARKS, COLOR BLEMISHES, GATE VESTIGE, AND SOFT FLASH THAT DO NOT AFFECT THE FIT, FORM, OR FUNCTION OF THE PART ARE PERMISSIBLE PER DPNP-4.7-CS-01.
4. MATERIAL SELECTED FOR FUEL TANK APPLICATIONS.

PART NO	REV	N/P	STATUS	MATERIAL AND COLOR	VOL (CM³)	REPLACED BY	SEE NOTE
13957519	01	AA	-	ACETAL COMPOUND BLACK	1.053	-	4
13952626	01	AA	-	POLYAMIDE COMPOUND BLACK	1.053	-	-
13894197	01	AA	OBSOLETE	POLYAMIDE COMPOUND BLACK	1.053	-	-
13651345	01	AB	-	POLYAMIDE COMPOUND GRAY	1.053	-	-
12059110	E6	-	OBSOLETE	POLYAMIDE COMPUND BLACK	1.053	13957519	-

(9) PROCESS SENSITIVE DIMENSION

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

DIMENSIONAL RANGE (MM)									CHART E1
FROM / TO	> 0 / 20	> 20 / 30	> 30 / 70	> 70 / 100	>100 / 150	>150 / 200	>200 / 250	>250 / 300	>300 / 400
TOLERANCE UNLESS OTHERWISE SPECIFIED	±0.15	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8	±1	±1.2
ANGULAR TOLERANCE ±2°									

DWG TYPE: PART DRAWING

STYLE:

VOLUME (CM³): SEE CHART — 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 — CAD NX

DELPHI

DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE
WARREN, OH

		DATE
DR		
APVD1	P. C. PRIDMORE	06JN07
APVD2	P. C. PRIDMORE	06JN07
APVD3	BRIAN GROUBERT	06JN07
APVD4		
APVD5		

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001

MATERIAL: SEE CHART

DRAWING NAME: TAXI CONN M/P 150

DRAWING NUMBER: 13651346

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A0	5:1	1 OF 1	1 OF 1	R	04	-