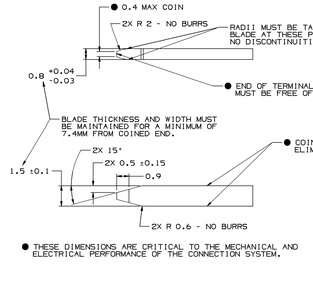
SYMBOL DEFINITION		MISSING SYMBOLS	
A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED: 1	NO MISSING SYMBOL NUMBER	
	LAST NO. USED: 1		

KEY PRODUCT CHARACTERISTICS			
SAFETY/COMPLIANCE	F/T/FUNCTION	TOTAL ON DRAWING	3
S/C CHECKPOINTS	F/F CHECKPOINTS	LAST NO. USED	3

NO & TYPE	DESCRIPTION	RATIONALE	PTS	ZONE

DWG STATUS DATE	STS	REV	N/P	CHG	ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
11MY02	R	08	-	-		CLEARED REVISION COLUMN; ALL PARTS - REDRAWN TO PD.	22SV02	FRG	FRG	GM
06JN07	R	09	-	-		ALL PARTS - REVISED SEALING CODE NOTE; ADDED TYPE COLUMN TO CHART, REMOVED INSPECTION SYMBOLS FROM MATING CONNECTOR; 15324696 - ADDED TYPE 102 TOP VIEW	461608	WAC	WAC	SDW



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

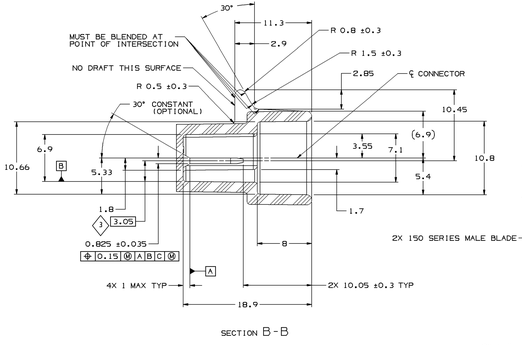
ELECTRICAL CONDUCTIVITY - >28% IACS AT 20 °C. USE OF A MATERIAL WITH CONDUCTIVITY <28% IACS MUST BE APPROVED BY PACKARD ELECTRIC MATERIALS ENGINEERING.

TENSILE STRENGTH - 430 - 480 MPa

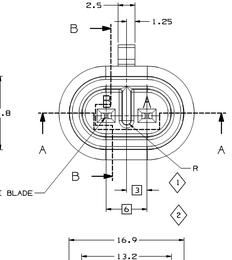
UNDERPLATING FOR TIN PLATING - FOR BASE MATERIALS CONTAINING 10% OR MORE ZINC, AN UNDERPLATE OF COPPER 0.0025 MM (100 µIN) MINIMUM THICK IS REQUIRED.

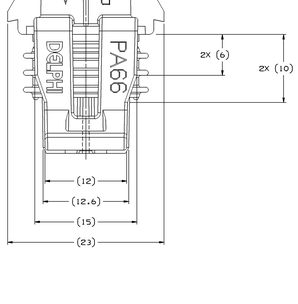
PROCESSING LUBRICANT - ANY PROCESSING LUBRICANT REMAINING ON TERMINALS MUST NOT VARNISH OR DEGRADE THE ELECTRICAL PERFORMANCE OF THE CONNECTION UP TO A MAXIMUM TEMPERATURE OF 150°C. PROCESSING LUBRICANTS MUST BE APPROVED BY DELPHI PACKARD ELECTRIC SYSTEMS ENGINEERING.

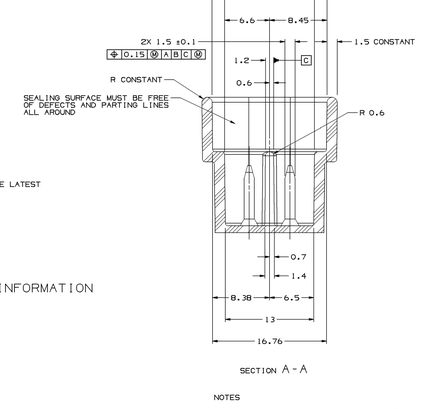
MATING BLADE INFORMATION



SECTION B-B







SECTION A-A

NOTES

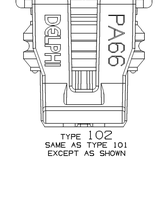
1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:

   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

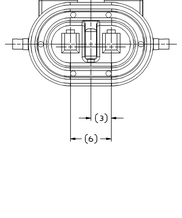
2. RECOMMENDED MATERIAL - GLASS FILLED NYLON OR POLYESTER

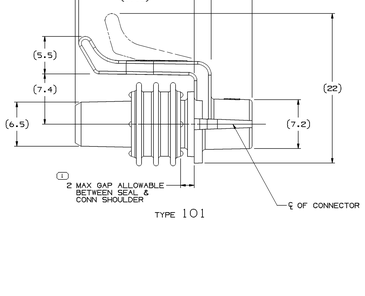
3. WHEN USING THIS INFORMATION FOR A NEW DESIGN, REQUEST THE LATEST COPY OF THIS PRINT FROM PACKARD ELECTRIC

MATING CONNECTOR INFORMATION

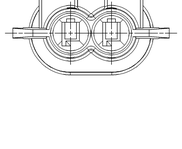


TYPE 102
SAME AS TYPE 101
EXCEPT AS SHOWN





TYPE 101



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. WHEN PARTS ARE SHIPPED THEY MUST BE PACKED IN PLASTIC BAGS OR SHIPPING CONTAINERS MUST BE LINED WITH PLASTIC LINERS. BAGS OR LINERS MUST BE SEALED TO AVOID FOREIGN MATTER.

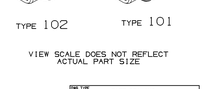
3. SEALING CODE 3 - DESIGN WILL PASS SALT FOG AND IMMERSION TEST AFTER CONDITIONING AS SPECIFIED IN ESA-710 (METRI-PACK), WHEN MATED TO MATING PART OR EQUIVALENT

4. REFERENCE MATING COMPONENTS OR EQUIVALENT:
   CONNECTOR 12052647, DP 22058091 WASHER
   PUMP, DR EGR SOLENOID OR EQUIVALENT
   AUX CLG FAN SW. OR EQUIVALENT

5. THIS PART ACCEPTS THE FOLLOWING COMPONENTS OR EQUIVALENT:
   TERMINAL 12048074
   CABLE SEAL 12048086
   SECONDARY LOCK 12052634

6. MAXIMUM CABLE DIAMETER 2.8 MM

7. FOR PART NUMBERS WITH ADHESIVE, USE PM003510 OR ADHESIVE APPROVED BY MATERIALS ENGINEERING TO GLUE CONNECTOR SEAL TO CONNECTOR



TYPE 102 TYPE 101

VIEW SCALE DOES NOT REFLECT ACTUAL PART SIZE

			15324696	A2	102		2	NONE	12052635	15305167	SEE NOTE 4	BLACK
			12129924	A2	101		2	NONE	12052635	12129925	SEE NOTE 4	BLACK
			12089501	B2	101		1	B	12089500	12103067	SEE NOTE 5	BROWN
12186685	A2		12052641	C3	101		2	NONE	12052635	12103067	SEE NOTE 4	BLACK
PART NO WITH ADHESIVE	REV	STATUS	PART NO WITHOUT ADHESIVE	REV	TYPE	STATUS	NUMBER OF CAVITIES	CAVITIES BLOCKED	CONNECTOR BODY	CONNECTOR SEAL	MATING CONNECTOR	CONNECTOR COLOR

DRAWING NUMBER	SCALE	PAGE NO	SHEET NO	TOTAL	REV	N/P
12089588	5:1	2 OF 2	2 OF		R	09 -
A1x3						

PROCESS SENSITIVE DIMENSION	
DIMENSIONS ENCLOSED IN () INDICATE REFERENCE DIMENSIONS, NO QC TOLERANCE LIMITS ARE ESTABLISHED	

ATMOSPHERICAL ROOM (MM)											
FROM	0	30	50	80	120	180	250	315	400	500	630
TO	30	50	80	120	180	250	315	400	500	630	800
TOLERANCE UNLESS OTHERWISE SPECIFIED											
±0.151	±0.2	±0.25	±0.3	±0.35	±0.4	±0.5	±0.6	±1	±1.2		
ANGULAR TOLERANCE ±2°											

THIRD ANGLE PROJECTION

DO NOT SCALE

SEE MATH DATA

NX

DELPHI

DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE
WARREN, OH

		DATE
DR		
APVD1	J. COLDSNOW	11APR9
APVD2	J. COLDSNOW	11APR9
APVD3	B. LANDRIES	14APR9
APVD4		
APVD5		

SUBSTANCES OF CONCERN: HAS RECYCLED CONTENT PER DELPHI (29APR9)

WEIGHT: SEE CHART

DRAWING NAME: TAXI ASM CONN F M/P 150 SLD

DRAWING NUMBER: 12089588

SIZE	SCALE	PAGE NO	SHEET NO	TOTAL	REV	N/P
A1x3	5:1	1 OF 2	2 OF		R	09 -

12089588