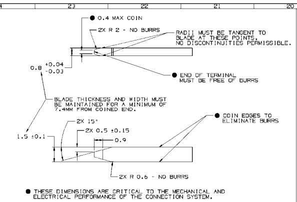


● THESE DIMENSIONS ARE CRITICAL TO THE MECHANICAL AND ELECTRICAL PERFORMANCE OF THE CONNECTION SYSTEM.

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

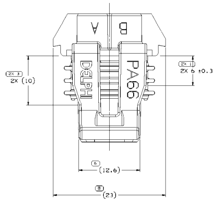
ELECTRICAL CONDUCTIVITY - ≥28% IACS AT 20 °C. USE OF A MATERIAL WITH CONDUCTIVITY <28% IACS MUST BE APPROVED BY PACKARD ELECTRIC MATERIALS ENGINEERING.

TENSILE STRENGTH - 430 - 480 MPa

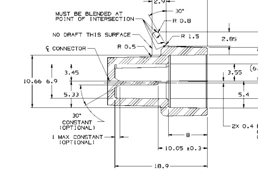
UNDERPLATING FOR TIN PLATING - FOR BASE MATERIALS CONTAINING 10% OR MORE ZINC, AN UNDERPLATE OF COPPER 0.0025 MM (100 μIN) MINIMUM THICK IS REQUIRED.

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



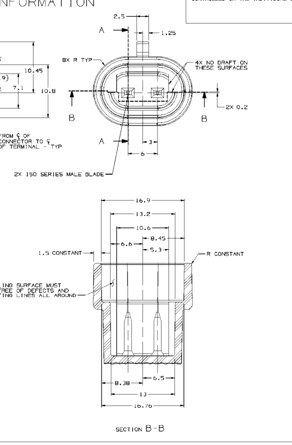
MATING CONNECTOR INFORMATION



SECTION A-A

NOTES

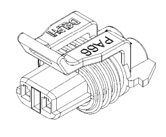
1. ALL RADII 0.4, UNLESS OTHERWISE SPECIFIED
2. RECOMMENDED MATERIAL - GLASS FILLED NYLON OR POLYESTER
3. WHEN USING THIS INFORMATION FOR A NEW DESIGN, REQUEST THE LATEST COPY OF THIS PRINT FROM DELPHI PACKARD ELECTRIC

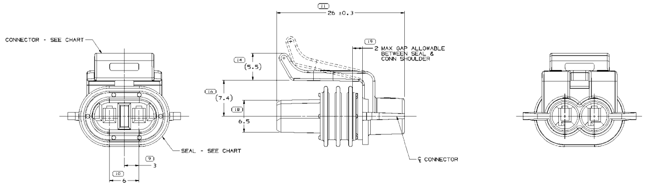


SECTION B-B

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	14	2 4-5 7 12-13 15 17 20
	LAST NO. USED	20	

DATE	STG	REV	N/P	CHG	ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
23AU99	R	01	-	-		CLEARED REV COLUMN; ALL PARTS REDRAWN	195107	LMM	RMM	RP
23AU99	R	02	-	-		15355280 RELEASED	990005	LMM	RMM	RP
28AU00	R	03	-	-		12052644,12089499, 15324246, 15324647, 15355280 & 12186686 - CURRENT PD WAS TOD AND REMOVED DIMS (13 PLCS)	202820	JCO	GGI	RP
31JL01	R	04	-	-		12052644, 12089499, 15324243, 15324647, 15355280 & 12186686 - ADDES MATING CONNECTOR & TERMINAL INFORMATION	211789	JLJ	JLJ	MB
06MR06	R	05	-	-		ALL ACTIVE PARTS - ADDED DIMS 13 PLCS. MATERIAL SPEC IN NOTE 9 WAS PM003510. 13575577 - RELEASED	277364	CJP	CJP	SAN
22OC07	R	06	-	-		ALL ACTIVE PARTS-UPDATED PDM ATTRIBUTES	402483	MAC	MAC	SS
12OC09	R	07	-	-		13786583 - RELEASED	409153	GEM	RHG	GEM
08JN10	R	08	-	-		12186686 - ADDED ADHESIVE NOTE	411021	AHY	JAA	GEM
13FE13	R	09	-	-		15510174 - RELEASED AS INACTIVE	421442	YVH	YVH	CDL
08MY13	R	10	-	-		15510174 - UPDATED PART AVAILABILITY	422447	YVH	YVH	CDL
26JN13	R	11	-	-		15510174 - ADDED LUBWELL NOTE	423121	YVH	YVH	CDL

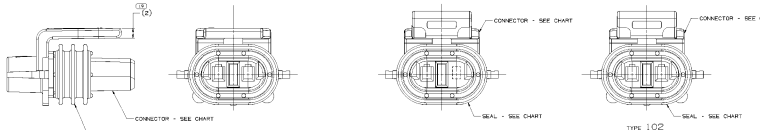




TYPE 101

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 ENTRY OF FOREIGN MATTER.
3. SEALING CODE 3 - DESIGN WILL PASS SALT FOG AND IMMERSION TEST AFTER CONDITIONING AS SPECIFIED IN ESA-644 (WEATHER-PACK),ESA-710 (METRI-PACK), ESA-650 (UNDERHOOD MICRO-PACK), C-4006 (WORLD CONNECTOR), ETC WHEN MATED TO MATING PART OR EQUIVALENT
4. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
5. 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.
6. FOR PART NUMBER WITH ADHESIVE, USE M3510001 OR ADHESIVE APPROVED BY MATERIALS ENGINEERING TO GLUE CONNECTOR SEAL TO CONNECTOR.
7. 15510174 - USE 10 ML PER 1,000 SEALS OF S-60-T LUBWELL AT 10:1 CONCENTRATION FOR ASSEMBLY OF CONN SEAL.



TYPE 104 KNOCKOUT PAD CONSTRUCTION

TYPE 103

TYPE 102 KNOCKOUT PAD CONSTRUCTION

PART NUMBER WITH ADHESIVE	REV	N/P	PART NUMBER WITHOUT ADHESIVE	REV	N/P	NUMBER OF CAVITIES	CAVITIES BLOCKED	CONNECTOR BODY	TYPE	CONNECTOR SEAL	CONNECTOR COLOR
			15510174	01	AB	2	NONE	12052638	101 OR 102	12129925	LT GRAY
			13786583	01		2	NONE	13786582	101 OR 102	12103067	BLACK
	-	-	13575577	01	AA	2	NONE	13575574	104	12103067	LT GRA
		-	15355280	01	AC	0	A,B	15355279	101 OR 102	12103067	LT GRN
		-	15324647	A5	-	2	NONE	12052638	101 OR 102	15305167	LT GRAY
		-	15324243	A5	-	2	NONE	15324242	101 OR 102	12103067	GRAY
		-	12162409	A2	-	1	B	12162408	101	12103067	NAT
		-	12162348	A2	-	2	NONE	12162347	101	12103067	BLACK
		-	12089499	B10	-	1	B	12089498	101 OR 103	12103067	BLUE
12186686	A6	-	12052644	C9	-	2	NONE	12052638	101 OR 102	12103067	LT GRAY

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.

(N/A) PROCESS SENSITIVE DIMENSION

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

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

DELPHI

DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE
WARREN, OH

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		DATE
DR		
APVD1	JOSEPH HOUGELMAN	14MR89
APVD2	JOSEPH HOUGELMAN	27MR89
APVD3	RON PUHL	08SE00
APVD4		
APVD5		

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001

MATERIAL: SEE CHART

DRAWING NAME: TAXI ASM CONN 2 F M/P 150 SLD

DRAWING NUMBER: 12089588

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	5:1	1 OF 2	1 OF 5	R	11	-

DRAWING NUMBER: 12089588

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	5:1	2 OF 2	1 OF 5	R	11	-

12089588