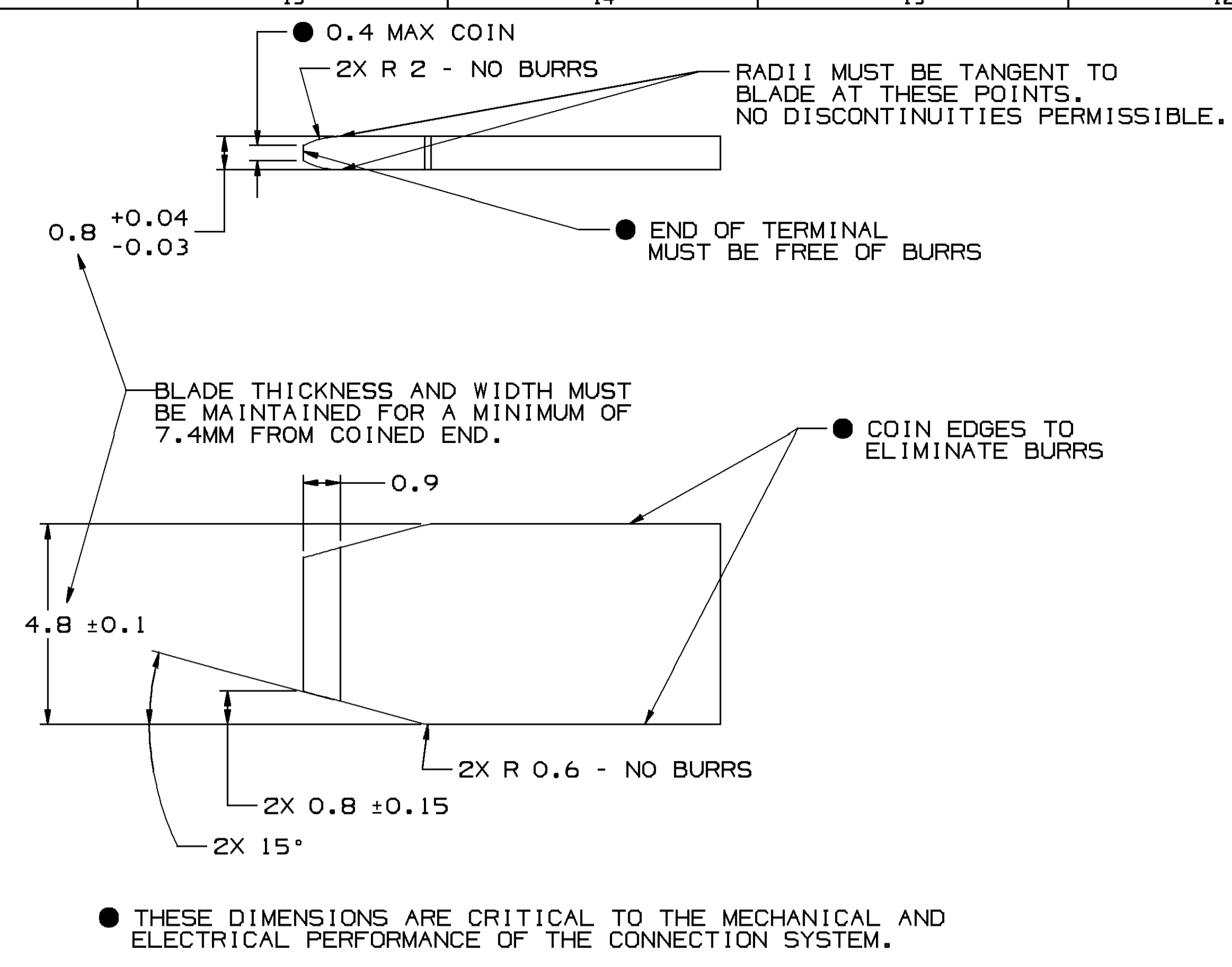


MATING CONNECTOR INFORMATION

SCALE 4:1

SYMBOL DEFINITION		MISSING SYMBOLS	
A	DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	B	NO MISSING SYMBOL NUMBER
		B	LAST NO. USED

DATE		REV		N/P		CHG		ZONE		REVISION HISTORY		AUTH		DR		AP/VD	
070C87	A	-	-	-	-	-	-	-	-	DRAWING COMPLETE		-	-	-	-	-	-
18N087	B	-	-	-	-	-	-	-	-	REVISED		-	-	-	-	-	-
13JN88	C	-	-	-	-	-	-	-	-	15.75 WAS 15.650/15.350, 21.00 WAS 20.00 & 1.15 R. WAS 1.00 R		-	-	-	-	-	-
21MR89	D	-	-	-	-	-	-	-	-	REMOVED CPA, WAS PE012825 AND RELEASED		890005	TEM	TEM	-	-	-
11SE89	E	-	-	-	-	-	-	-	-	16.00 DIM WAS 15.75		129193	AL	AL	-	-	-
10N006	E1	-	-	-	-	-	-	-	-	REDRAWN		285543	WHC	WHC	ET	-	-



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

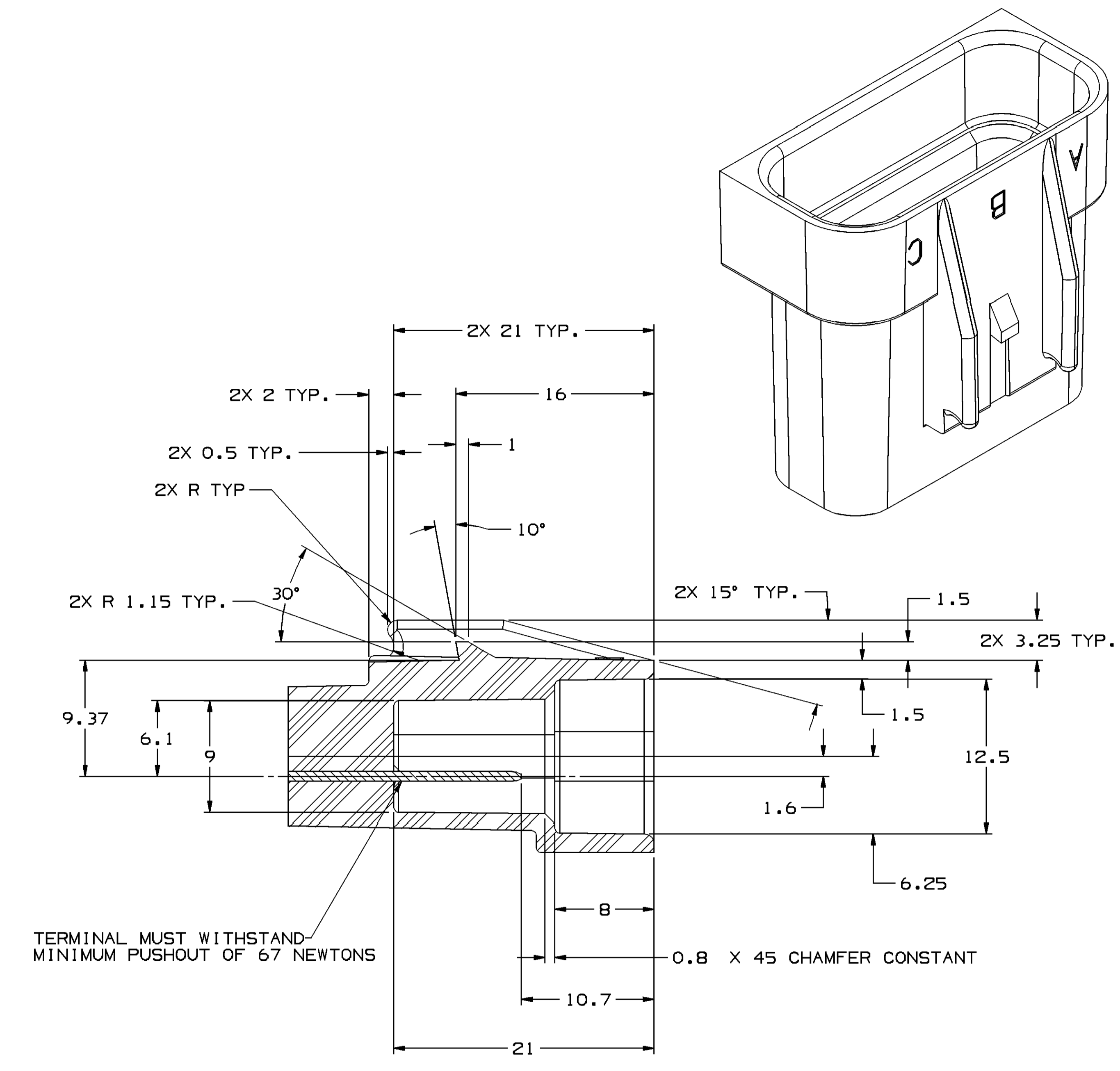
ELECTRICAL CONDUCTIVITY - ≥28% IACS AT 20 °C. USE OF A MATERIAL WITH CONDUCTIVITY <28% IACS MUST BE APPROVED BY PACKARD ELECTRIC MATERIALS ENGINEERING.

TENSILE STRENGTH - 430 - 480 MPa

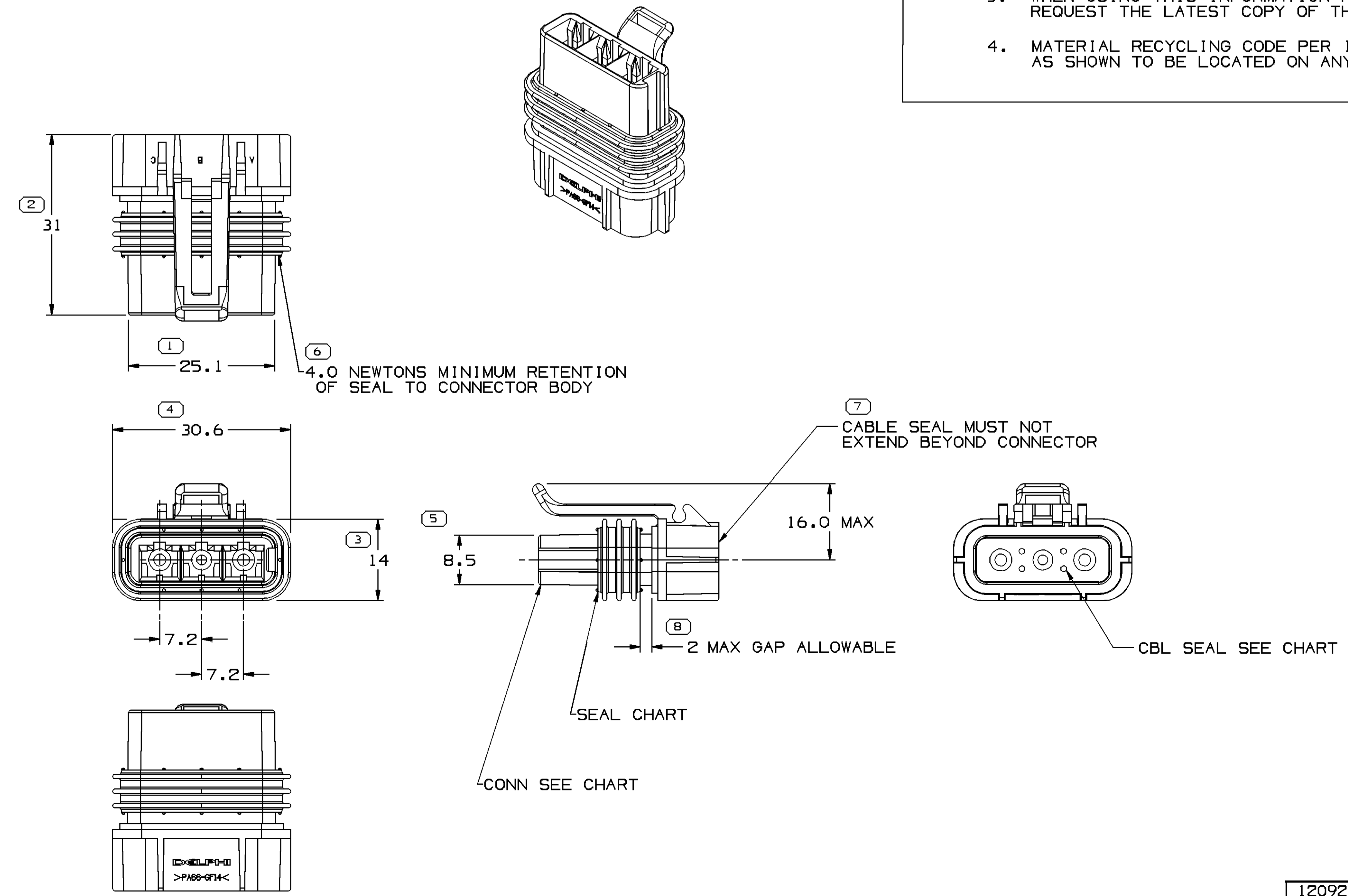
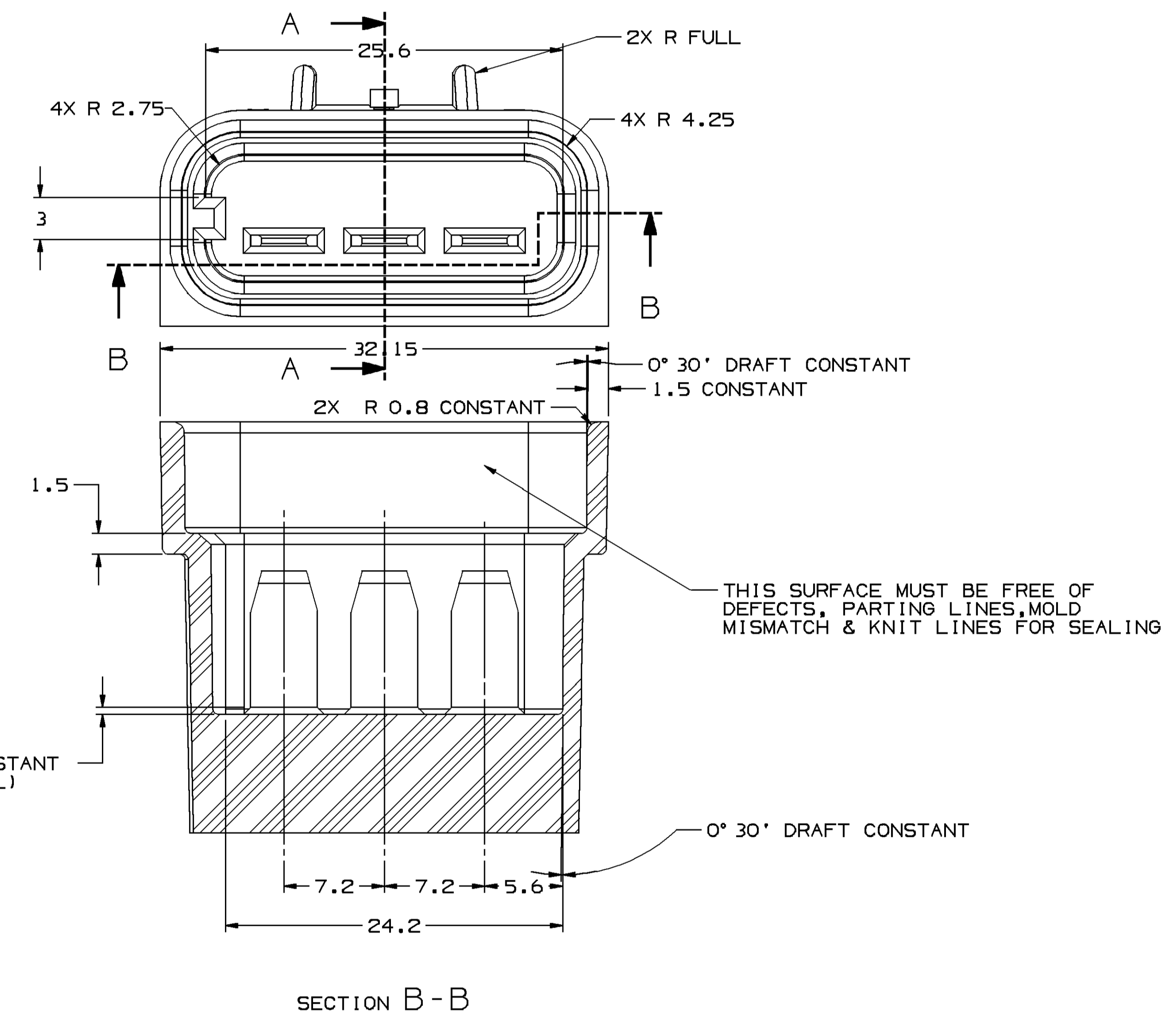
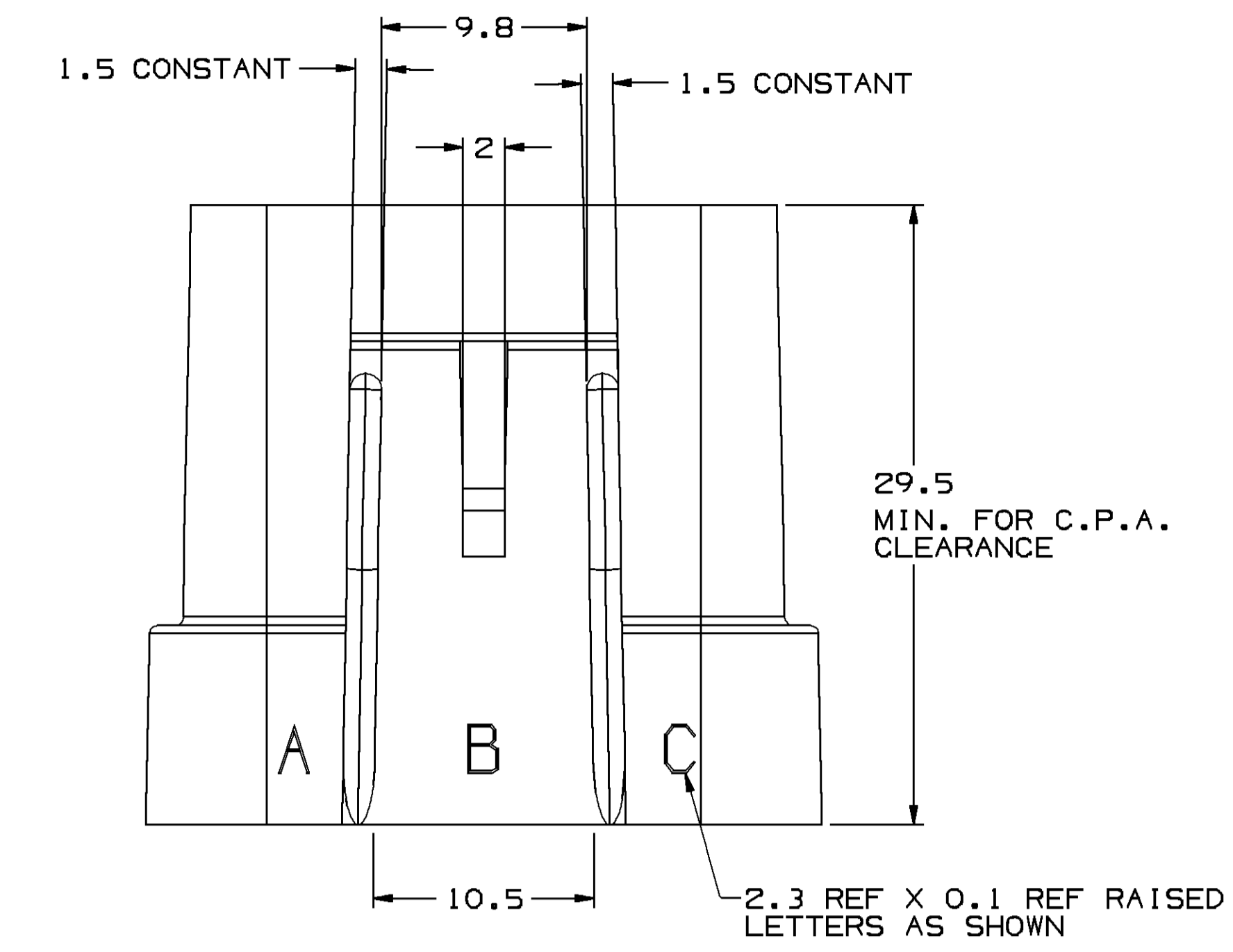
UNDERPLATING FOR TIN PLATING - FOR BASE MATERIALS CONTAINING 10% OR MORE ZINC, AN UNDERPLATE OF COPPER 0.0025 MM (100 μIN) MINIMUM THICK IS REQUIRED.

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



- 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° MAX ON ALL OUTSIDE SURFACES.
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
4. MATERIAL RECYCLING CODE PER ISO 11469. (2,3)X(0,1) CHARACTERS AS SHOWN TO BE LOCATED ON ANY EXTERIOR SURFACE.



- 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. TERMINAL POSITION ASSURANCE 1 (DELPHI P/N 1 OR EQUIVALENT)
3. THIS ASSEMBLY ACCEPTS THE FOLLOWING COMPONENTS OR EQUIVALENT:
- 480 SERIES FEMALE PULL TO SEAT TERMINAL 12092306 OR EQUIVALENT
 MAX CABLE O.D. 3.10 DIA.
 CONNECTOR SEAL 12092308 OR EQUIVALENT
 CABLE SEAL 12092309 OR EQUIVALENT
 MATING PART NUMBER OF DELCO PRODUCTS BRUSHLESS BLOWER MOTOR COVER 5045961 OR EQUIVALENT
4. WHEN PARTS ARE SHIPPED, THEY MUST BE PACKED IN PLASTIC BAGS OR SHIPPING CONTAINER MUST BE LINED WITH PLASTIC LINERS BAGS OR LINERS MUST BE SEALED TO AVOID ENTRY OF FOREIGN MATTER
5. SEALING CODE 3

12092311	12092310	12092308	12092309
PART NO	CONN	CONN SEAL	CBL SEAL

DIMENSIONAL RANGE (MM)		TOLERANCE UNLESS OTHERWISE SPECIFIED	
FROM	TO	±	ANGULAR TOLERANCE
> 0	> 30	±0.1	±1
> 30	> 70	±0.15	±1.2
> 70	> 100	±0.2	±1.5
> 100	> 150	±0.3	±2
> 150	> 200	±0.4	±2.5
> 200	> 250	±0.5	±3
> 250	> 300	±0.6	±3.5
> 300	> 400	±0.8	±4.5

DELPHI
 DELPHI PACKARD ELECTRIC SYSTEMS
 WARREN, MI

DR	070C87
AP/VD1	BILL SCANNELL
AP/VD2	E.V. MCCOYAN
AP/VD3	J. MORELLO
AP/VD4	
AP/VD5	

DATE: 070C87
 THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS MODIFIED BY THE IN-SITU DIMENSIONING OF TOLERANCE ADMINISTRATION. SEPARATE TOLERANCE FEATURES MAY BE BASED SEPARATELY PER DELPHI REFERENCES.

ALL DIMENSIONS ARE IN MILLIMETERS

UNLESS OTHERWISE SPECIFIED

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS MODIFIED BY THE IN-SITU DIMENSIONING OF TOLERANCE ADMINISTRATION. SEPARATE TOLERANCE FEATURES MAY BE BASED SEPARATELY PER DELPHI REFERENCES.

UNLESS OTHERWISE SPECIFIED

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

PROCESS SENSITIVE DIMENSION

THIRD ANGLE PROJECTION

DO NOT SCALE

USE MATH DATA

DRAWING NAME: ASM CONN 3 F M/P 480 BLK SLD

DRAWING NUMBER: 12092311

SCALE: 2:1

FRAME NO: 1

SHEET NO: 1

OF: 1

DATE: 070C87

REV: N/A

BY: E1