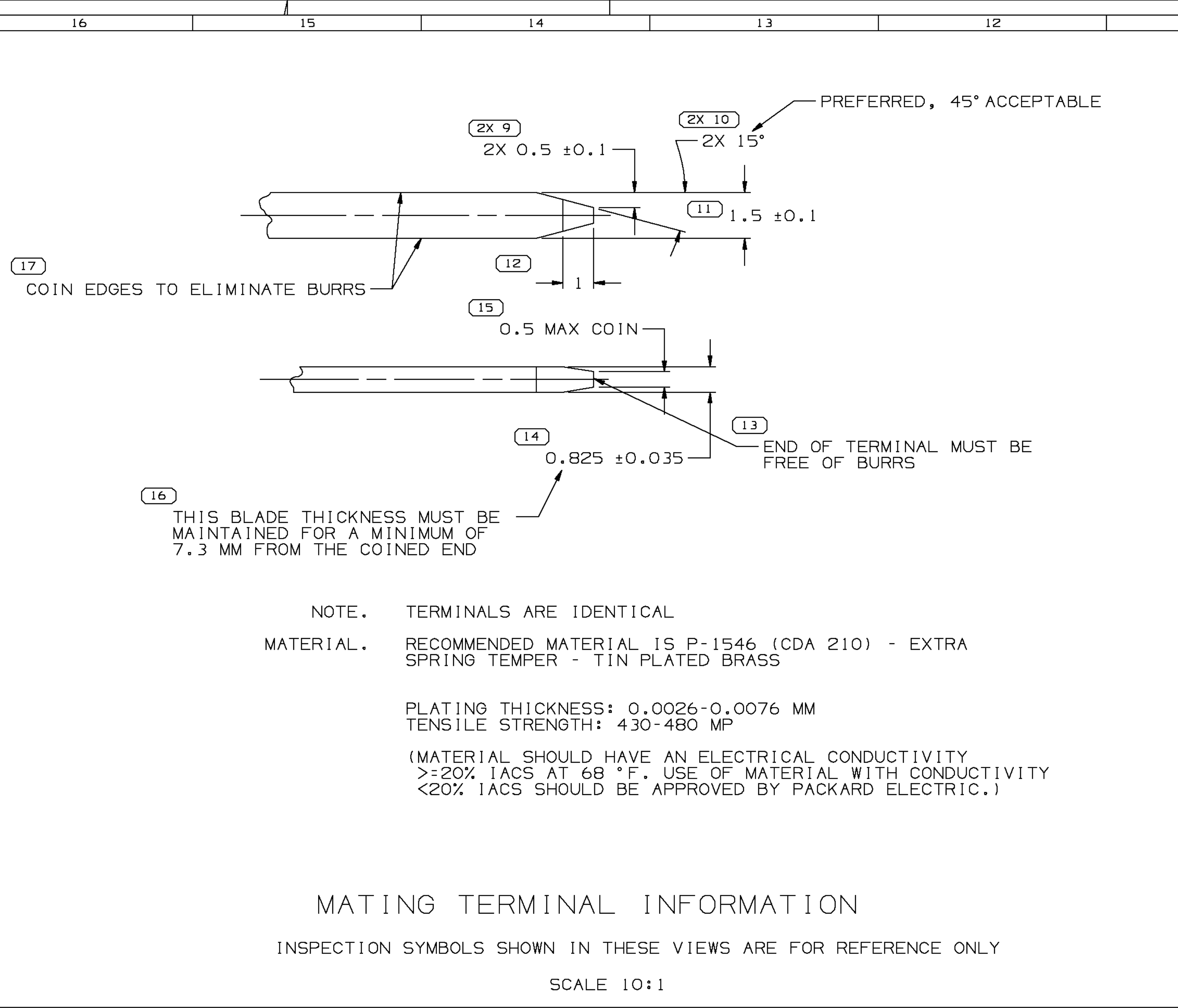
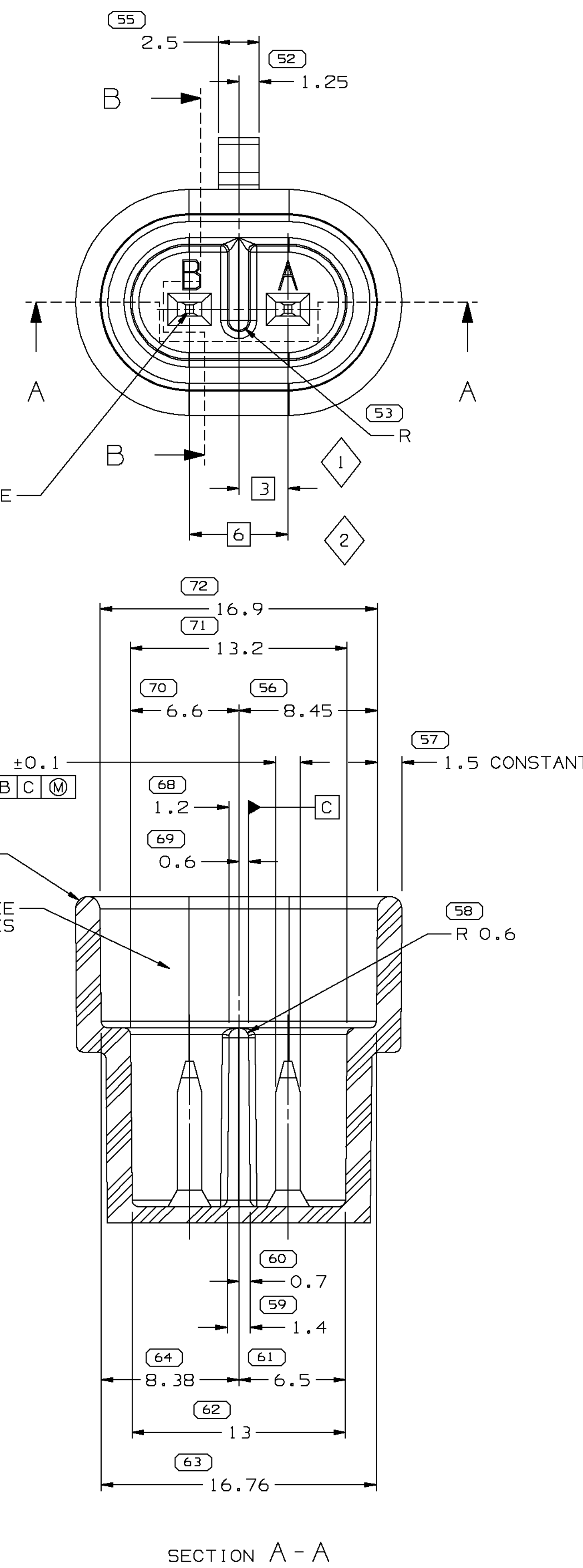
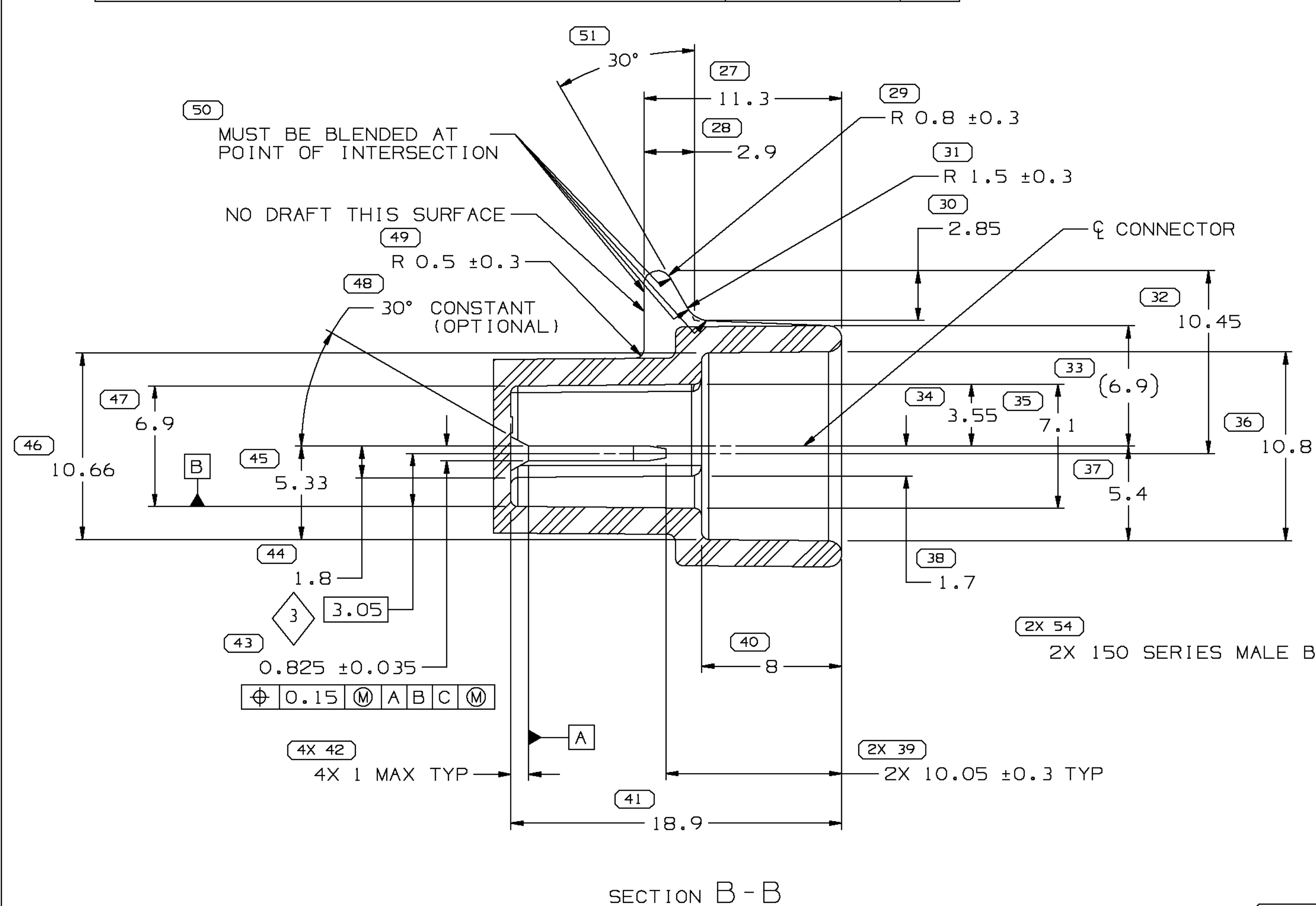




SYMBOL DEFINITION		MISSING SYMBOLS	
A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED	NO MISSING SYMBOL NUMBER	82
	LAST NO. USED		72

KEY PRODUCT CHARACTERISTICS				
SAFETY/COMPLIANCE	FIT/FUNCTION	TOTAL ON DRAWING	3	
S/C CHECKPOINTS	F/F CHECKPOINTS	LAST NO. USED	3	
NO & TYPE	DESCRIPTION	RATIONALE	PTS	ZONE

DWG STATUS		ZONE		REVISION HISTORY		AUTH		DR	APVD	APVD
DATE	STG	REV	N/P	CHG						
11MY02	R	08	-	-						
Cleared revision column: ALL PARTS - REDRAWN TO PD						226502	FRG	FRG	GM	

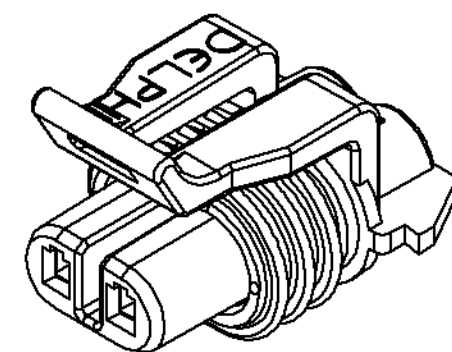


NOTES

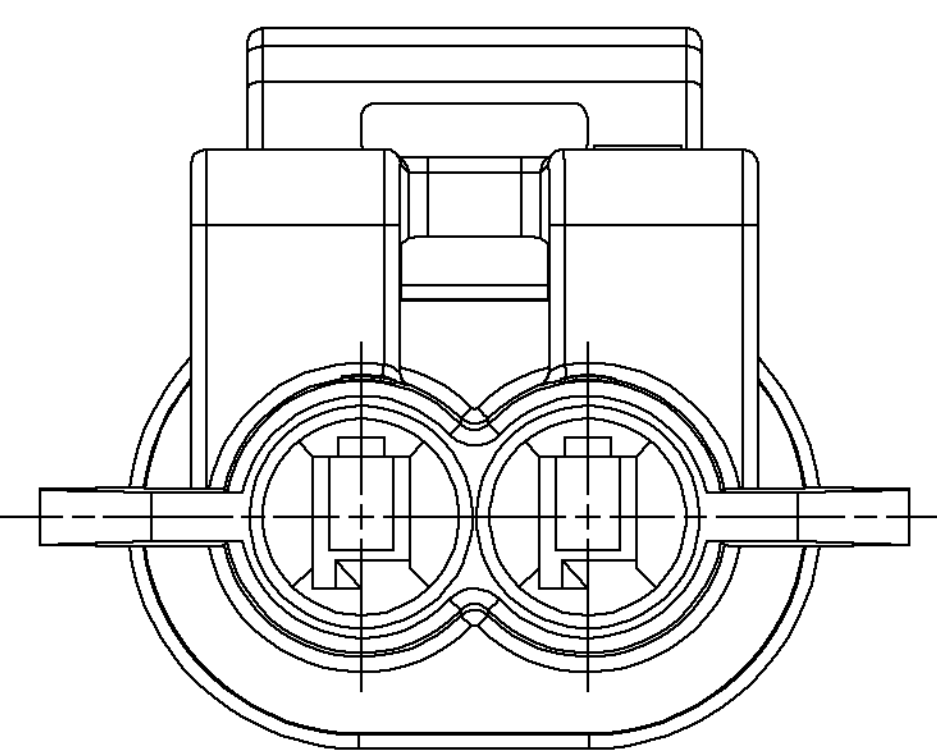
- UNLESS OTHERWISE SPECIFIED AND/OR INDICATED: DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY ROUNDED BY COMPUTER FOR INSPECTION (SEE MATH MODEL FOR PRECISE DIMENSIONS). FOR ALL OTHER DIMENSIONS NOT SHOWN BUT REQUIRED FOR TOOL BUILD, SEE MATH MODEL FOR PRECISE TOOL PATH DATA. ALL RADII 0.4
- RECOMMENDED MATERIAL - GLASS FILLED NYLON OR POLYESTER
- WHEN USING THIS INFORMATION FOR A NEW DESIGN, REQUEST THE LATEST COPY OF THIS PRINT FROM PACKARD ELECTRIC

MATING CONNECTOR INFORMATION

INSPECTION SYMBOLS SHOWN IN THESE VIEWS ARE FOR REFERENCE ONLY

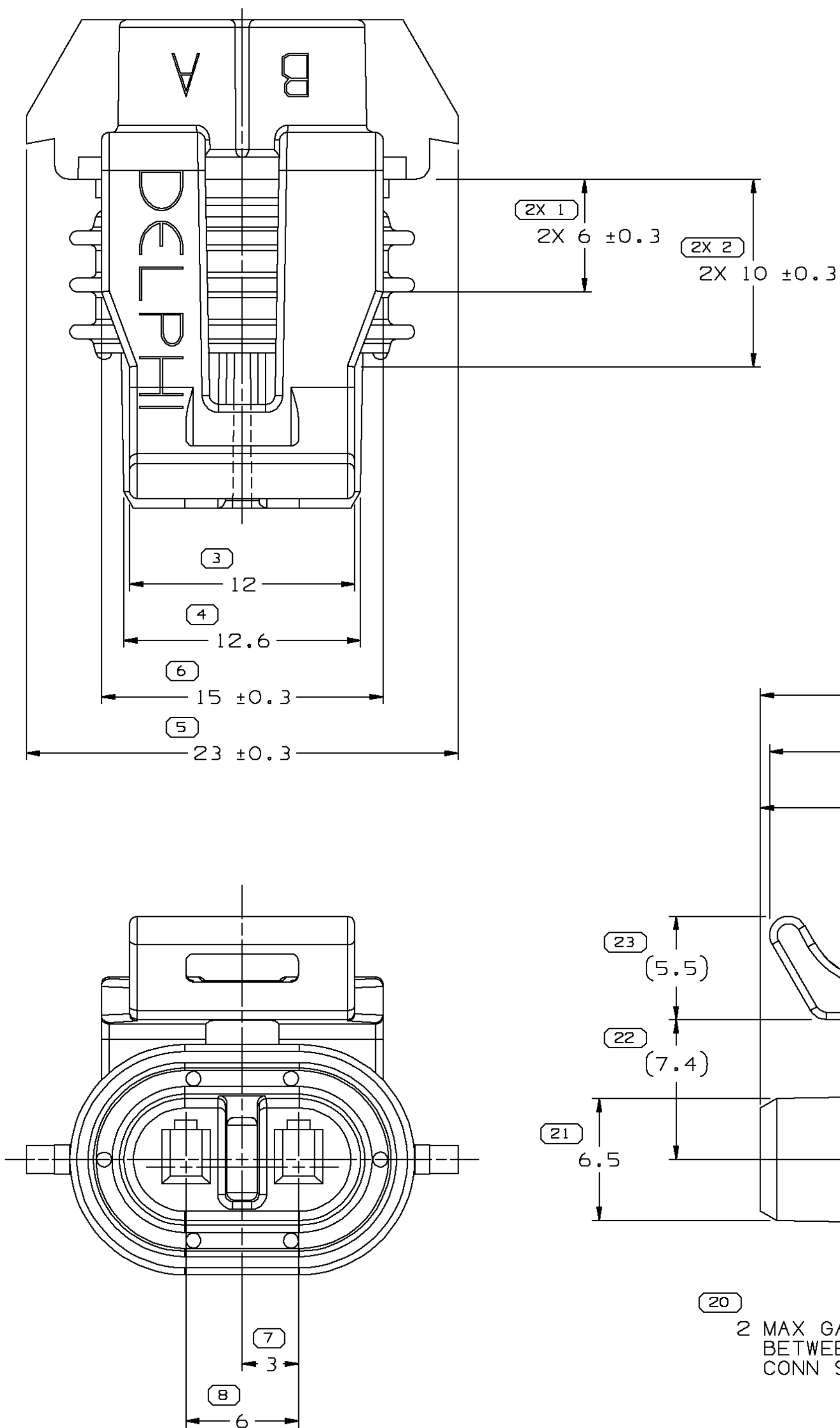


VIEW SCALE DOES NOT REFLECT ACTUAL PART SIZE

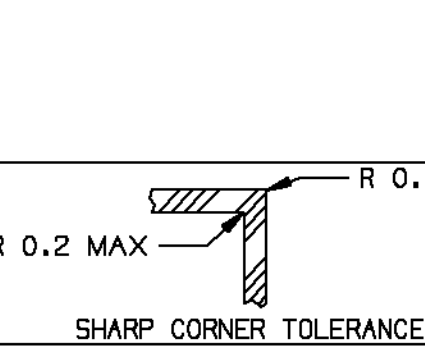


NOTES

- 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.
- 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.
- 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
- MATING COMPONENTS OR EQUIVALENT: CONNECTOR 12052647, DP 22058091 WASHER PUMP, DR EGR SOLENOID OR EQUIVALENT AUX CLG FAN SW. OR EQUIVALENT
- THIS PART ACCEPTS THE FOLLOWING COMPONENTS OR EQUIVALENT: TERMINAL 12048074 CABLE SEAL 12048086 SECONDARY LOCK 12052634
- MAXIMUM CABLE DIAMETER 2.8 MM
- FOR PART NUMBERS WITH ADHESIVE, USE PM003510 OR ADHESIVE APPROVED BY MATERIALS ENGINEERING TO GLUE CONNECTOR SEAL TO CONNECTOR



PART NO WITH ADHESIVE		REV		STATUS		PART NO WITHOUT ADHESIVE		REV		STATUS		NUMBER OF CAVITIES		CAVITIES BLOCKED		CONNECTOR BODY		CONNECTOR SEAL		MATING CONNECTOR		CONNECTOR COLOR	
12186685		A1		12052641		15324696		A1		2		NONE		12052635		15305167		SEE NOTE 4		BLACK			



PROCESS SENSITIVE DIMENSION		DIMENSIONAL RANGE (MM)		CHART	
FROM	TO	0	20	20	30
TO	30	30	70	70	100
		100	150	150	200
		200	250	250	300
		300	400	400	
		10.15	±0.2	±0.3	±0.5
		±0.4	±0.6	±0.8	±1
		±1.2			
		ANGULAR TOLERANCE	12°		

DWG TYPE		PART DRAWING	
STYLE			
VOLUME (CM)		DISTR CODE	D
ROUTING	6900		
UNLESS OTHERWISE SPECIFIED			
THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE 3M GLOBAL DIMENSIONING AND TOLERANCING STANDARD 1997. ALL DIMENSIVE TOLERANCES AND RELATED DATUMS APPLY UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ESTABLISHED BY ORIENTATION OR LOCATION TOLERANCES. SEPARATE POSITION CALLOUTS MAY BE BASED SEPARATELY, REGARDLESS OF DATUM REFERENCE.			
REFERENCE			
THIRD ANGLE PROJECTION			
DO NOT SCALE			
USE MATH DATA			

DELPHI			
DELPHI PACKARD ELECTRIC SYSTEMS WARREN, OH			
		DATE	
DH			
APVD1 J. COLDSNOW		11AP91	
APVD2 J. COLDSNOW		11AP91	
APVD3 R. LANDRIES		16AP91	
APVD4			
APVD5			
SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001			
MATERIAL SEE CHART			
DRAWING NAME			
ASM CONN F M/P 150			
DRAWING NUMBER			
12089588			
SIZE	SCALE	FRAME NO	SHEET NO
A0	5:1	1 OF 1	2 OF 2
			REV
			08