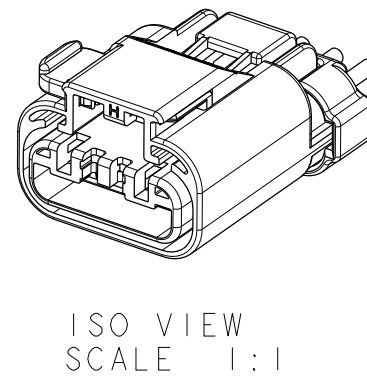
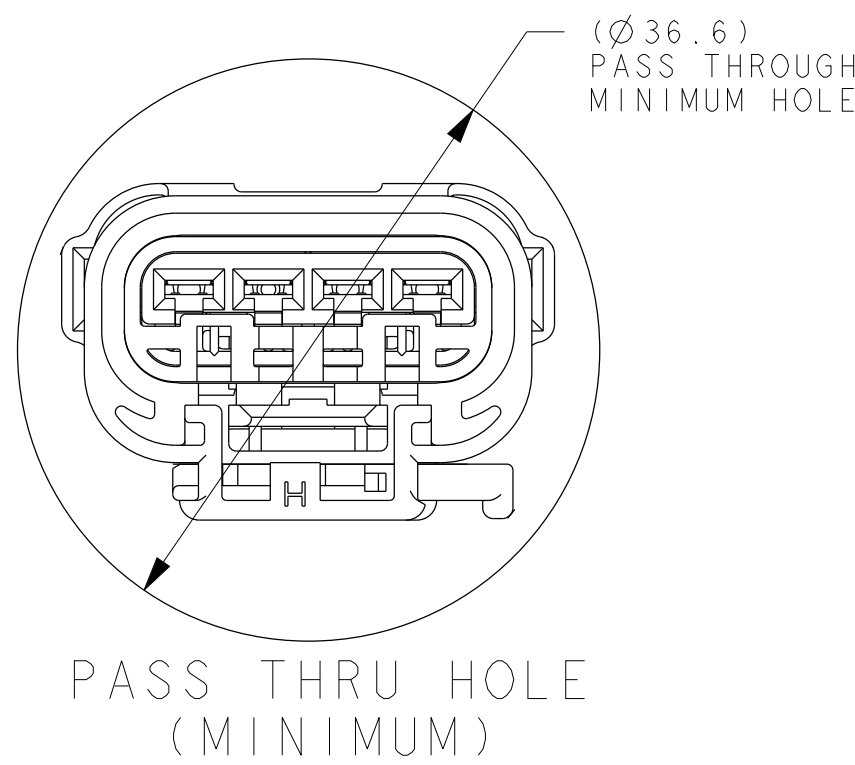
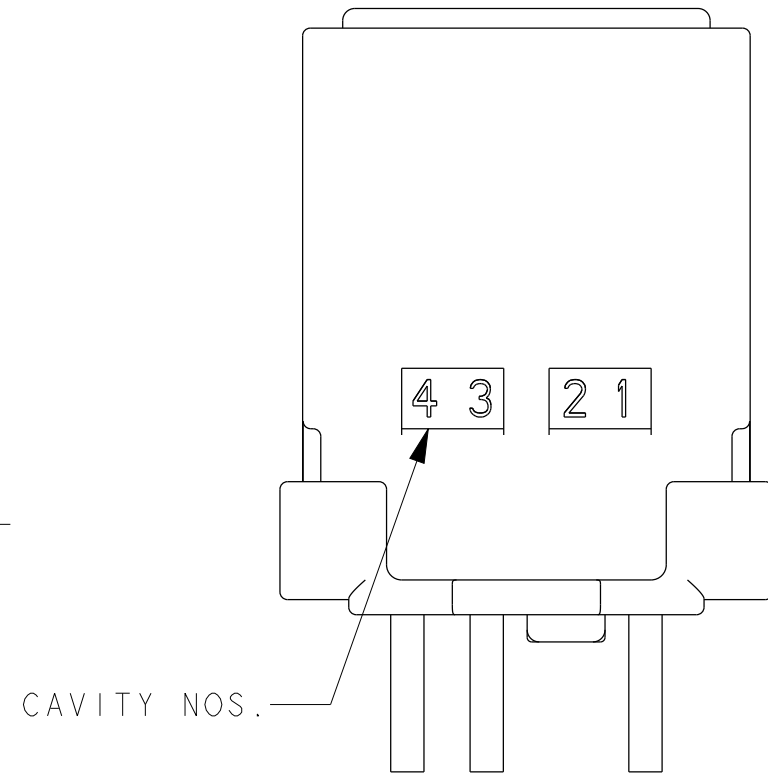
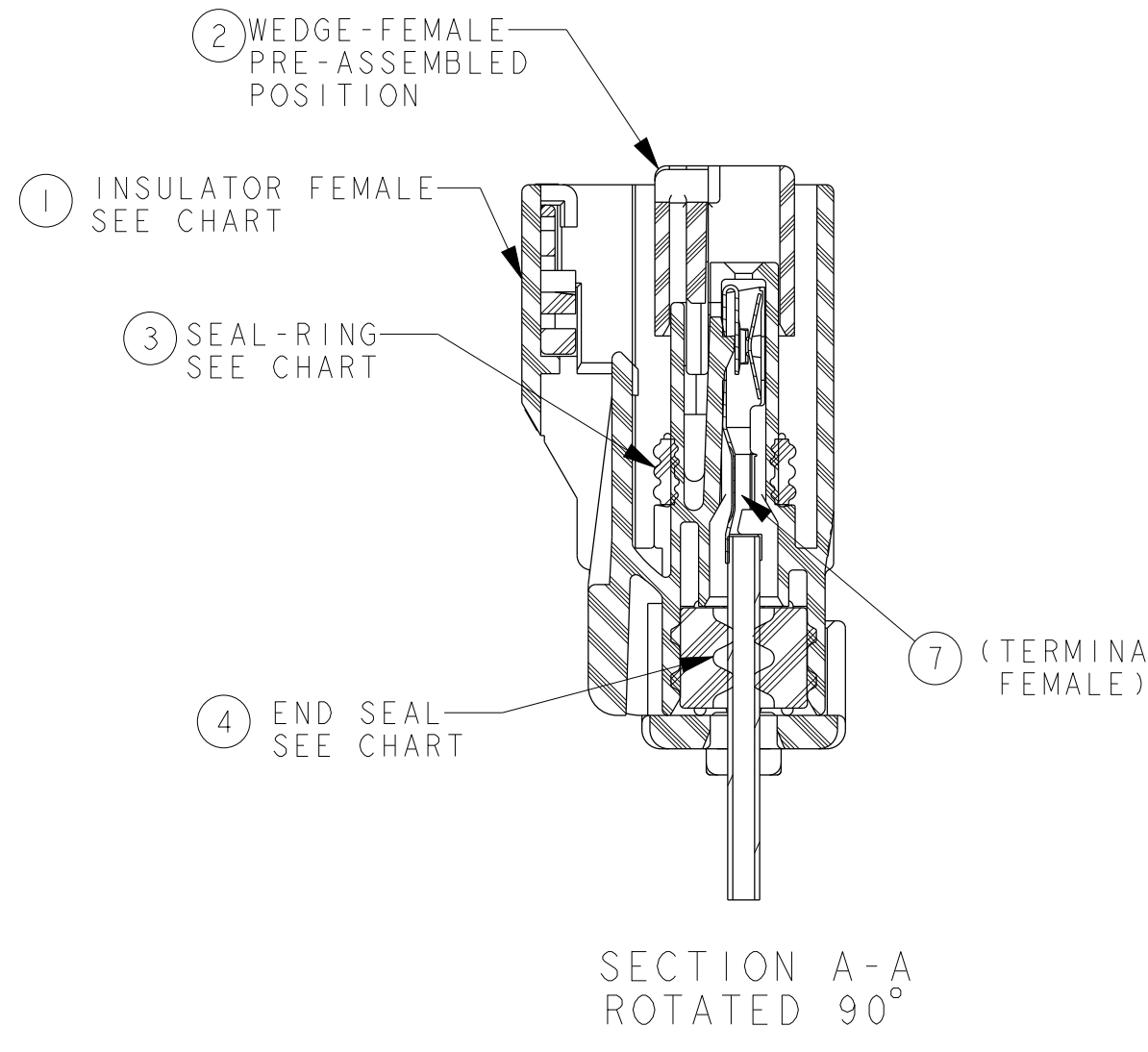
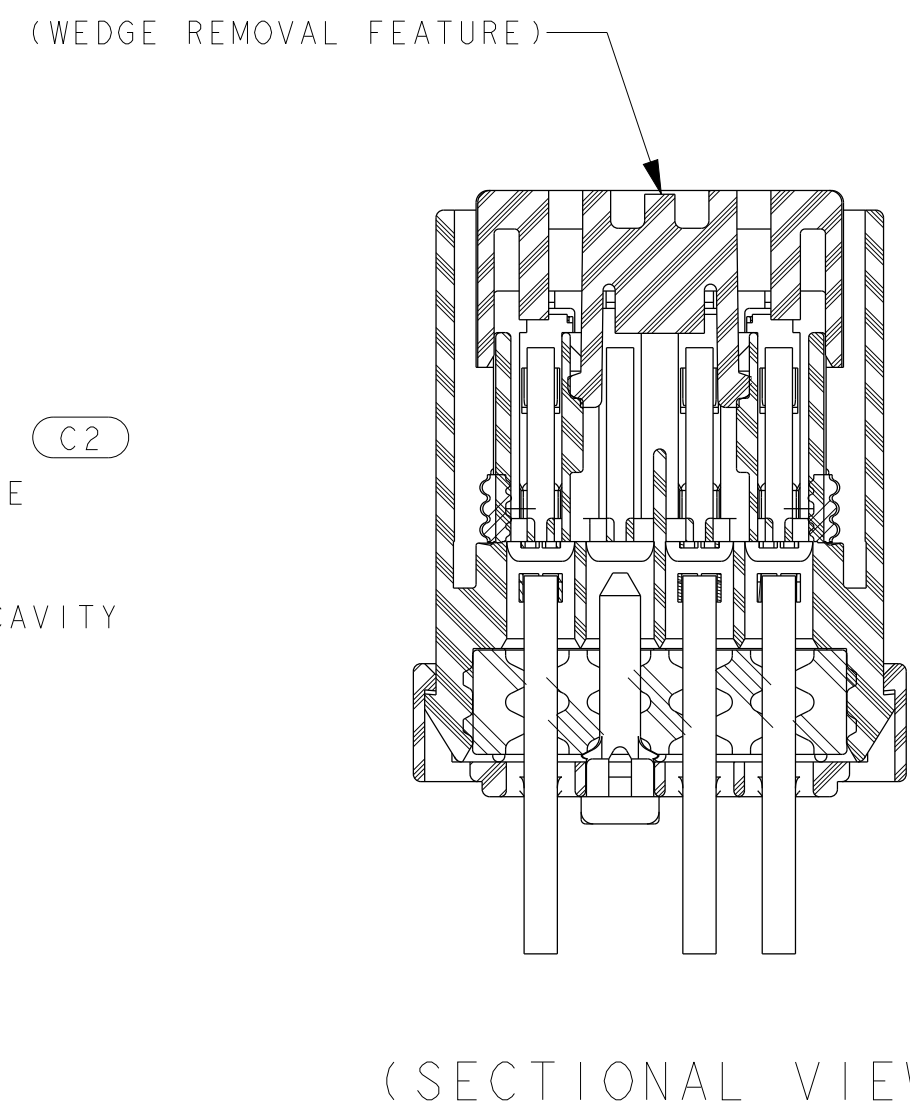
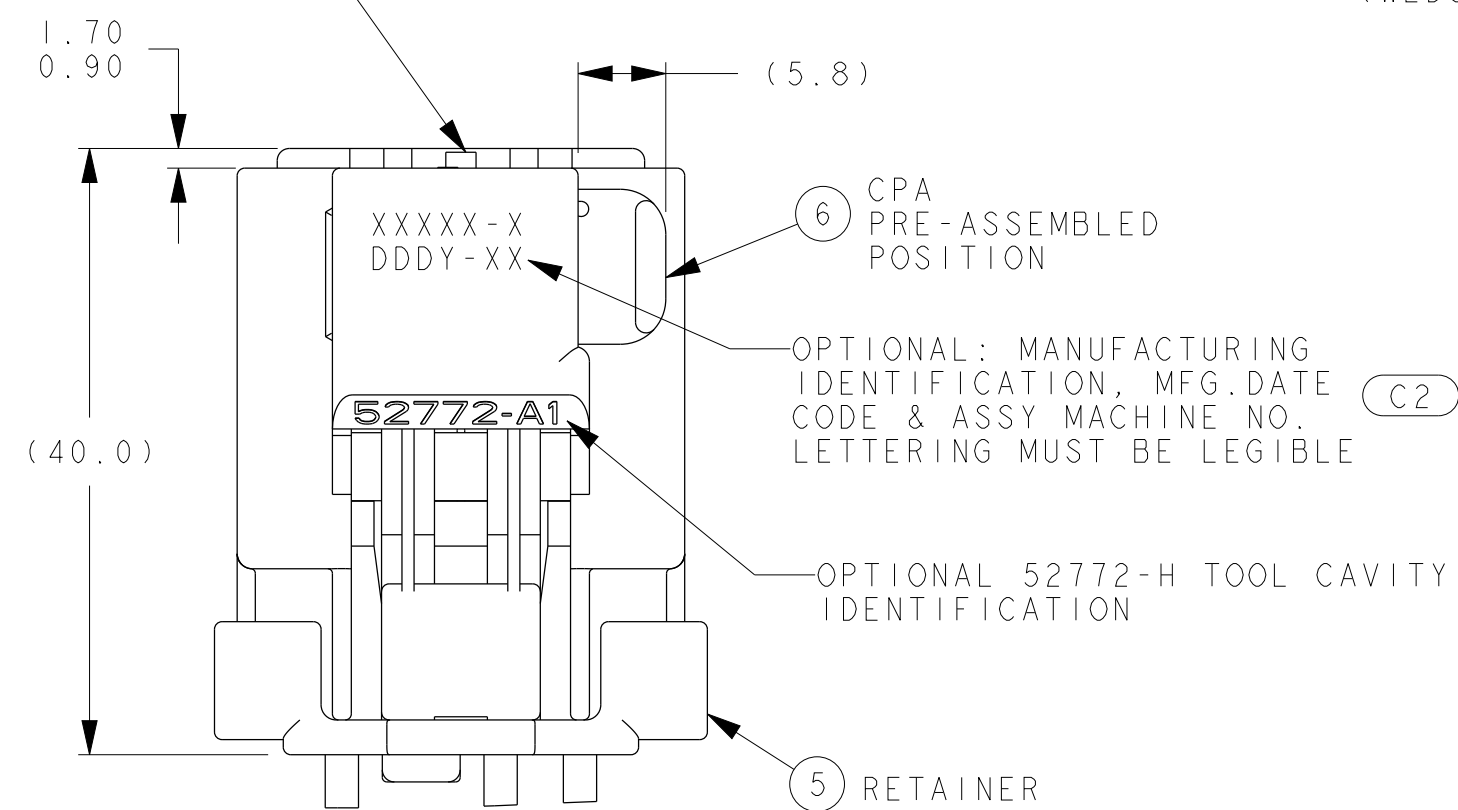
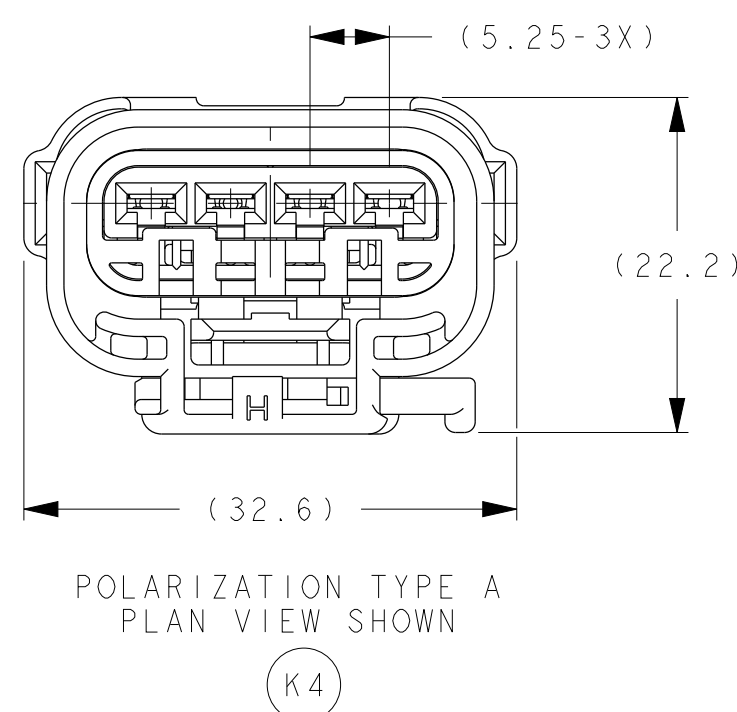
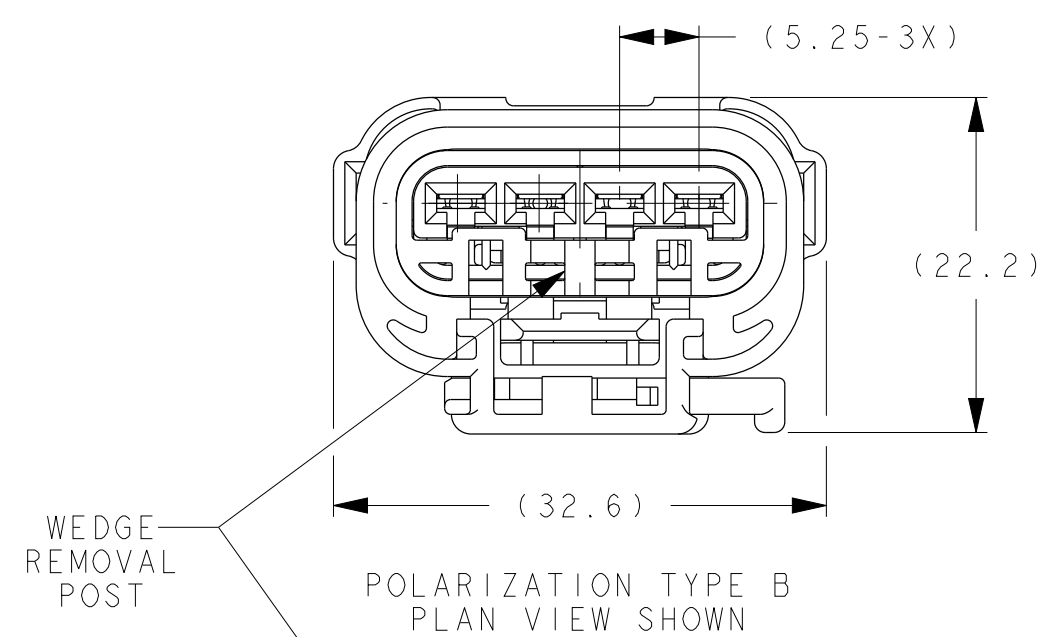


APPLICABLE COMPONENTS							
ITEM	DESCRIPTION	MANDATORY	TERMINAL CAVITY MIN/MAX OD	PLATING/MATERIAL	FORD PART NUMBER	SUPPLIER COMPONENT PART NUMBER	
						MVL	DELPHI
1	B386/FEMALE APEX/2.80MM (CAV 1-4)	NO	1.70 - 4.3	GOLD/TIN/SILVER AND COPPER ALLOY	N/A	N/A	N/A
2	MALE DELETE CAP	NO	N/A	PA66GF35	DU5T-14A594-AA	F291210	33511450
3	CAVITY PLUG	NO	N/A	PA66GF15	9U5T-14666-AA	54200005	15537297



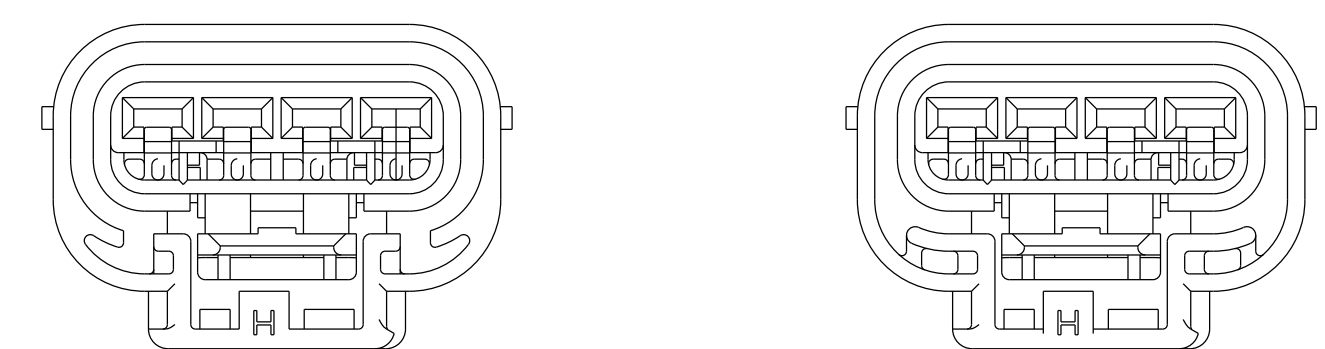
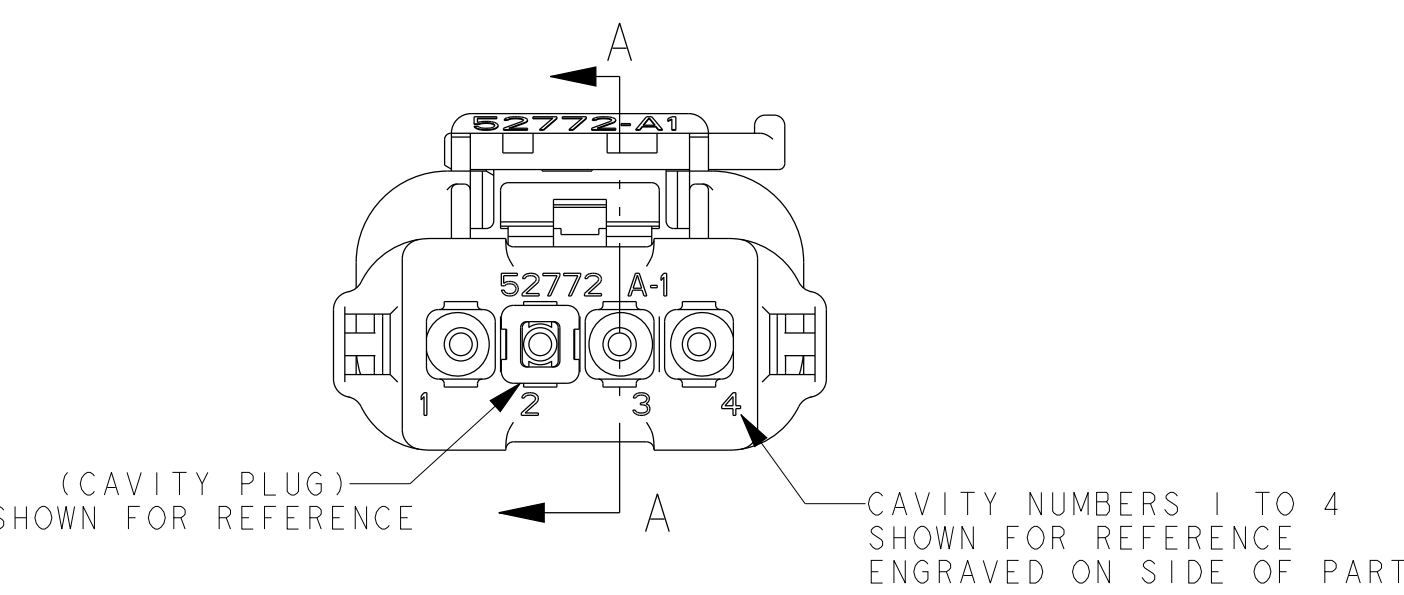
CONNECTOR ASSEMBLY CHART					
ASSEMBLY PART NO.'S				MATING COMPONENT	
FORD COMPONENT PART NO.	DELPHI COMPONENT PART NO.	MAX. TEMP.	VIBRATION CLASS	FORD COMPONENT PART NO.	DELPHI COMPONENT PART NO.
4L3T-14A464-AB	33243061	125°C	V2	N/A	N/A
FU5T-14A464-JAB	15425692	125°C	V2	N/A	N/A

ITEM	PIA DESCRIPTION	COLOR	FORD COMPONENT PART NO.	SUPPLIER COMPONENT PART NO.		MATERIAL / SPEC. NO.	RECYCLING CODE	WEIGHT	NO. OF ITEMS REQUIRED
				MVL	DELPHI				
1	HOUSING 4 WAY APEX FEMALE INDEX A	BLACK	-	54200431	33503579	POLYAMIDE COMPOUND	PA66 GF35	7.95	1
1	HOUSING 4 WAY APEX FEMALE INDEX B	LT.GREY	-	54200435	13545750	POLYAMIDE COMPOUND	PA66 GF35	8.02	1
2	SPACER 4 WAY APEX FEMALE	AQUA	-	54200442	33511959	POLYAMIDE COMPOUND	PA66 GF35	1.24	1
3	INTERFACE SEAL	RED	-	54200459	33511960	SILICONE	VMQ	0.32	1
4	END SEAL (STANDARD) AWG 20 TO 6mm²	PURPLE	-	C17019-U	33185280	SILICONE	VMQ	1.41	1
5	END SEAL RETAINER	BLACK	-	54200440	15537508	POLYAMIDE COMPOUND	PA66 GF35	1.23	1
6	CPA	RED	-	54200003	15517297	POLYAMIDE COMPOUND	PA66 GF35	0.51	1



NOTES:

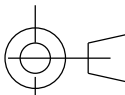

- PART MUST CONFORM TO THE ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) VER.21, DATED 13/JUN/11
- CONNECTOR SYSTEM CONFORMS TO ES-F8DB-14A464-AA SAE/USCAR-2/REV 4) TEMPERATURE CLASS 3, SEALING CLASS S2
- MAXIMUM MATING FORCE FULLY POPULATED WITH TIN TERMINALS= 42.5N WITH GOLD TERMINALS = 50.5N AVERAGE (IN-LINE CONNECTOR SYSTEM) THESE VALUES ARE FOR REFERENCE ONLY, WHEN MATED TO A SIMILAR MALE TERMINAL, VALUES VARY DEPENDING ON PHYSICAL CONDITIONS
- REPAIR MANUAL WILL CALL OUT EXTRACTION TOOL (5400 EXT) TO BE USED
- FOR SEALED INTERFACES ONLY SEALING SURFACES AS IDENTIFIED ON THIS DRAWING ARE SMOOTH AND FREE OF PARTING LINES.
- CONNECTOR IS RATED AS ERGONOMIC CLASS (3) BASED ON USCAR- 25 REV 1. CONNECTOR PUSH SURFACE AREA IS (150 SQUARE mm ON C DATED 08AU3
- ALL PLASTIC PARTS MUST HAVE MATERIAL IDENTIFICATION SYMBOLS CLEARLY MARKED, WHEREVER PACKAGE SIZE PERMITS
- FOR ENGINEERING APPROVED SOURCE SEE ENGINEERING RELEASE
- ENGINEERING APPROVAL OF SAMPLE FROM EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION OF PART PRODUCTION
- CHANGES IN DESIGN COMPOSITION OR PROCESSING FROM THE PART PREVIOUSLY APPROVED FOR PART PRODUCTION REQUIRES PRIOR ENGINEERING APPROVAL
- GENERAL TOLERANCES: ±0.3 ALL ONE PLACE DIMENSIONS ±0.10 ALL TWO PLACE DIMENSIONS ±3.0°ALL ANGULAR DIMENSIONS
- FEED THROUGH CONDITION I.E MIN HOLE SIZE TO GIVE 2MM TOTAL CLEARANCE ACROSS THE MAXIMUM DIAMETER
- 0.3MM MAXIMUM RADIUS PERMISSIBLE ON EDGES AND FILLETS SHOWN AS SHARP FOR PLASTIC PARTS
- ALL RADIUS 0.50
- PARTS ARE TO BE FREE OF SCRATCHES, DISCOLORATION, SALT RESIDUE OR OTHER IMPERFECTIONS THAT MAY AFFECT FUNCTION OR FIT OF PART
- DRAWING CONFORMS TO AVP-(T401/T406)-001 REVISION X DATED
- ALL SEALED CONNECTOR APPLICATIONS MUST BE USED WITH FORD WIRE SPEC. ESB-MIL123-A/A2 THIN WALL X-LINK 20 TO 10 AWG WIRES ONLY, UNLESS OTHERWISE SPECIFIED WIRE INSULATIONS: Ø 1.70 MIN TO 4.3 MAXI METRIC EQUIVALENTS ACCEPTABLE
- ALL NON-SEALED APPLICATIONS MAY BE USED WITH ANY WIRE INSULATION 22 GAGE THRU 10 GAGE (EXCEPT AS NOTED) PROVIDING THAT A TERMINAL GRIP FOR THAT CORE/INSULATION COMBINATION IS SHOWN ON THE FEMALE TERMINAL DRAWING
NOTE: MAX. INSULATION GRIP WIDTH = 4.50
MAX. INSULATION CRIMP HEIGHT = 4.50
MAX. INSULATION DIA. = 4.04(10 GA THIN WALL)
- SUPPLIER, MOLD AND CAVITY I.D. SIGNIFIES TOOL OWNERSHIP, FOR REFERENCE
- SERVICE TOOLING GUIDE INFORMATION PER APEX TRAINING MANUAL
- SEALS ARE DESIGNED TO MEET MINIMUM INSULATION DIAMETER SEALING. THE TERMINAL INSERTION FORCES MAY BE HIGHER THAN PERMITTED PER SAE/USCAR-2. PF-752 OR PF-9600 WHEN USED WITH ALL LARGEST INSULATION DIAMETER WIRES

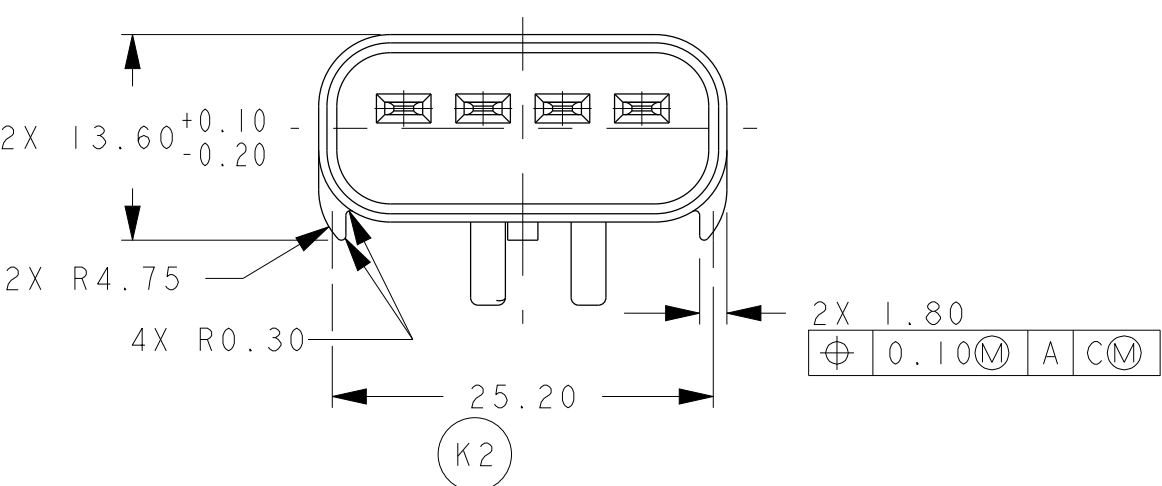


TYPE B
TYPE A
POLARIZATION OPTIONS
FULL SIZE

LTRS		REVISIONS	
ORIGINATOR	CHECKER	ENG APP	MATL APP
RELEASED 4L3T-14A464-AA FOR PRODUCTION AUTHORITY NB00-11111586-000 20010120			
T. ANGER	T. TAEPKE	W. DIXON	
REMOVED FU5T-14A464-JAA, AU5T-14A464-HAA AND 4L3T-14A464-AA K1 33185280 WAS 15537499 (LT.BLUE) K2 MIN/MAX WAS 1.70/2.70 K3 MIN/MAX WAS 3.10/4.04 K4 ADDED VIEW K5 ADDED NOTE K6 UPDATED DRAWING TO LATEST DRAWING STANDARD RELEASED FU5T-14A464-JAB AND 4L3T-14A464-AB			
AELE-E-11783955-309		20150331	
KISHORE	KKOLLERS	JPITTENI	
L1 WIRE RANGE WAS 1.70/4.04 L2 CORRECTED PN, WAS 15461312			
AELE-E-11783955-701		20210910	
X.ALEJA1	KKOLLERS	JCHAPP19	

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REFERENCE 4 WAY FEMALE SEALED 2.8 APEX			DELPHI Connection Systems	
PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD WSS-M99P9999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT				
DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND DRAFTING STANDARDS VERSION 27			 3 RD ANGLE PROJ DIMENSIONS IN MILLIMETERS	
CAD TYPE X-PROE	CAD LOC. N/A	CAD FILE H59003/4L3T	DTMC IS MASTER	
OPER. NO.		UNIT		DRAWING 4L3T-14A464-AB
DESIGN FC1	DETAIL MAHADEVAN 20111129	TITLE SLV ASY WIR CONN FEM		SHT 1 OF 2
CHECKED Sucho Sion 20111129				
SCALE 4X	DATE 20111129	DIVISION PLANT		
 FORD MOTOR COMPANY				



9.0 CONNECTOR SEALING SURFACE SHALL BE WITHOUT PARTING LINES OR MISMATCH ALL AROUND THIS LENGTH

(K9)

(20°) CONSTANT

0.55 CONSTANT

D

R1.0

2X R0.5

A

E

70°

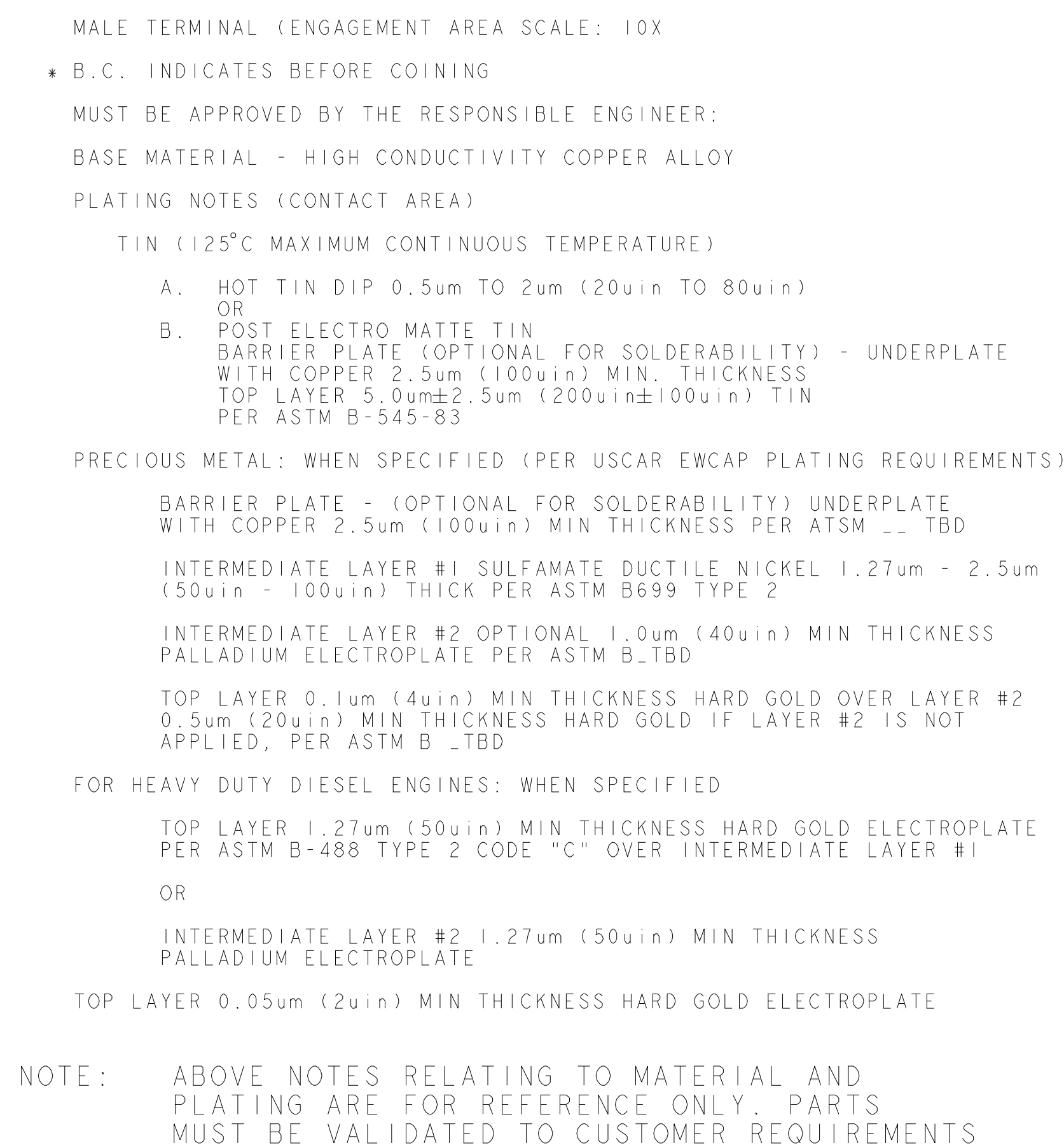
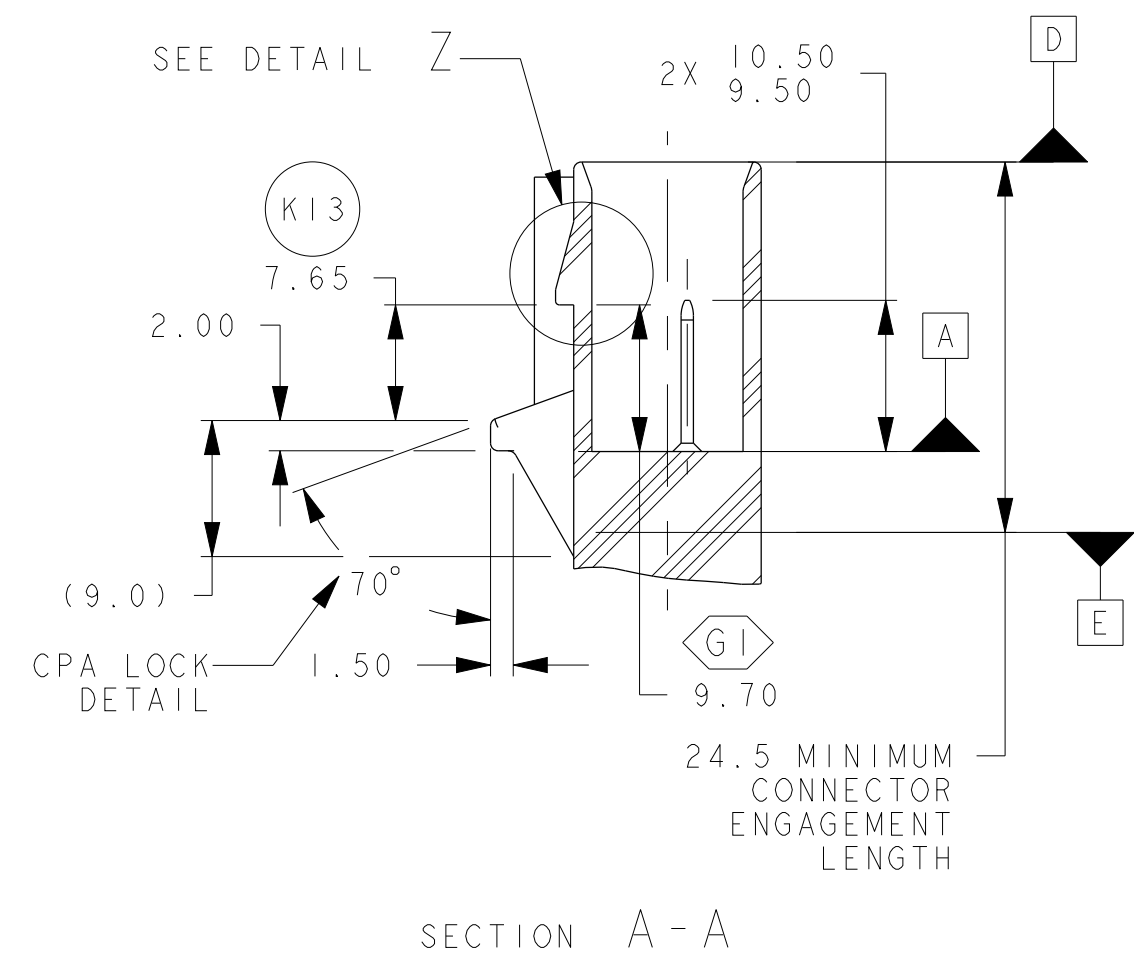
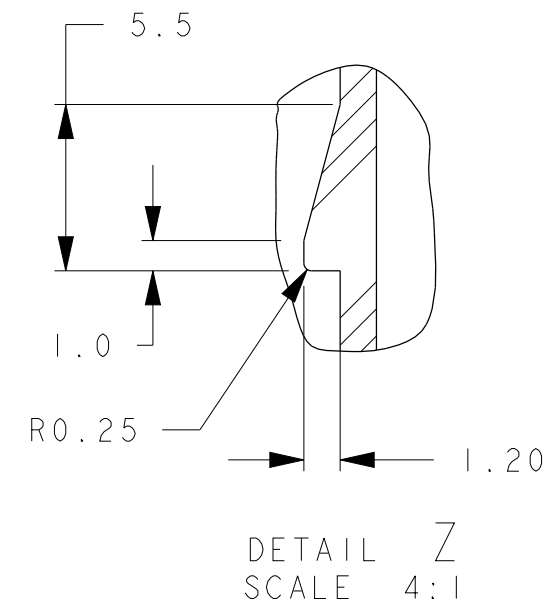
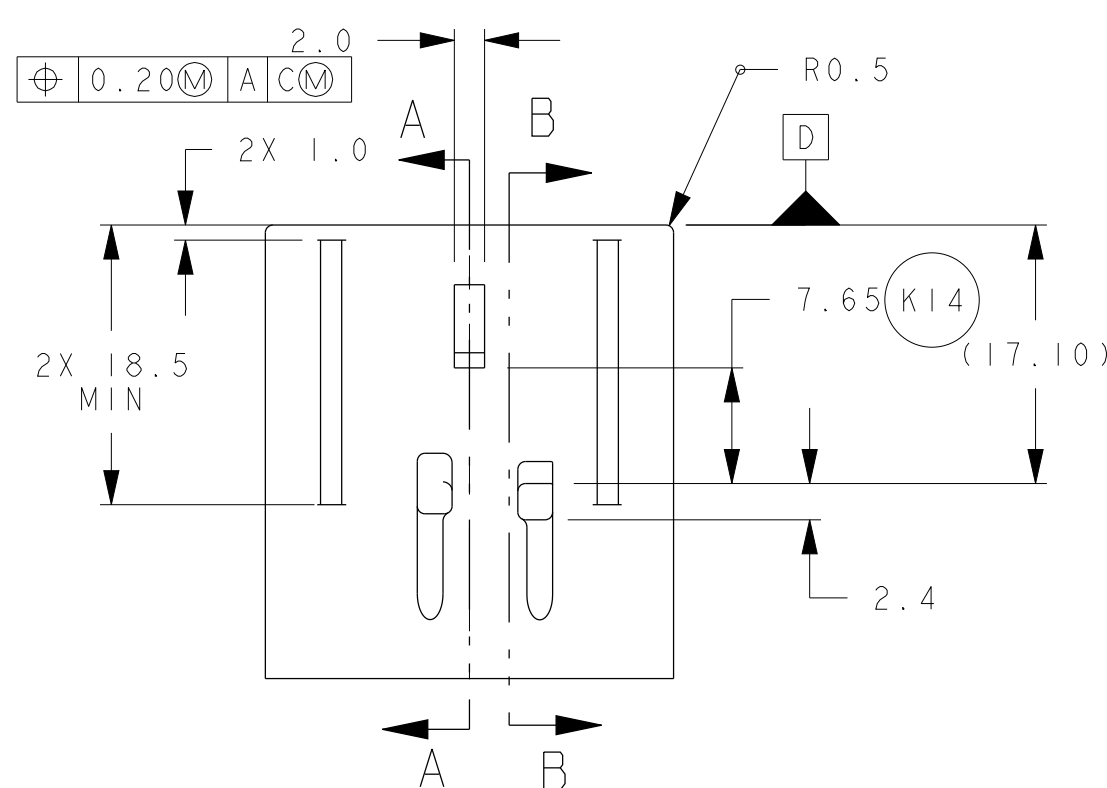
(9.0)

CPA LOCK DEPRESSER DETAIL

2X 1.50

4X 0.55 X 45°
(TERMINAL EXPOSURE PERMISSIBLE ON ENDS)

SECTION B-B



MALE INTERFACE NOTES:

(K) INDICATES IN - PROCESS INSPECTION FOR MANUFACTURING DIMENSION(S) OR SPECIFICATION(S) : 19

WIRING FABRICATORS MUST PURCHASE FROM ENGINEERING APPROVED SOURCES

MATES WITH 4 WAY FEMALE INSULATOR
SEE CHART

UNLESS OTHERWISE SPECIFIED TOLERANCES
ARE AS FOLLOWS:

2 PLACE DIMENSIONS	± 0.10
1 PLACE DIMENSIONS	± 0.25
ANGULAR	$\pm 2^{\circ}$

DRAFT PERMISSIBLE WITHIN DIMENSIONAL TOLERANCES
ONLY UNLESS OTHERWISE SPECIFIED

MUST CONFORM TO USCAR EWCAP PF-1

PART TO BE MOLDED FREE FROM FLASH, VOIDS, STRESSES,
IMPERFECTIONS AND TOOL MARKS, THAT REQUIRE FUNCTION
OR HANDLING OF THE PART

ALL EJECTOR MARKS 0.10 MAXIMUM HIGH TO
0.25mm BELOW THE SURFACE OF THE PART


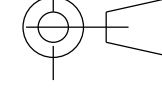
TOOL MUST BE INTERCHANGEABLE TO PRODUCE
ALL KEY TYPES AS CHARTED UNLESS OTHERWISE SPECIFIED

(G) DENOTES GAGE REQUIREMENTS FOR USER AND MANUFACTURER

(K 19) PLATE BLADE TERMINAL PER THE ABOVE NOTES

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REFERENCE 4 WAY FEMALE SEALED 2.8 APEX				
PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD WSS-M999999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT				
DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND MATING STANDARDS VERSION 27				
CAD TYPE	CAD LOC.	CAD FILE	<div>DMC</div> <div>IS MASTER</div>	
X-PROE	N/A	H59003/4L3T		
OPER. NO.	UNIT	DRAWING		
		4L3T - 1 4A464-AB		
DESIGN FCI	DETAIL MAHADEVAN 20111129	TITLE	SHT 2 OF 2	
CHECKED Sucho Sirom 20111129	SAFETY	SLV ASY WIR CONN FEM		
SCALE 4X	DATE 20111129	DIVISION PLANT		