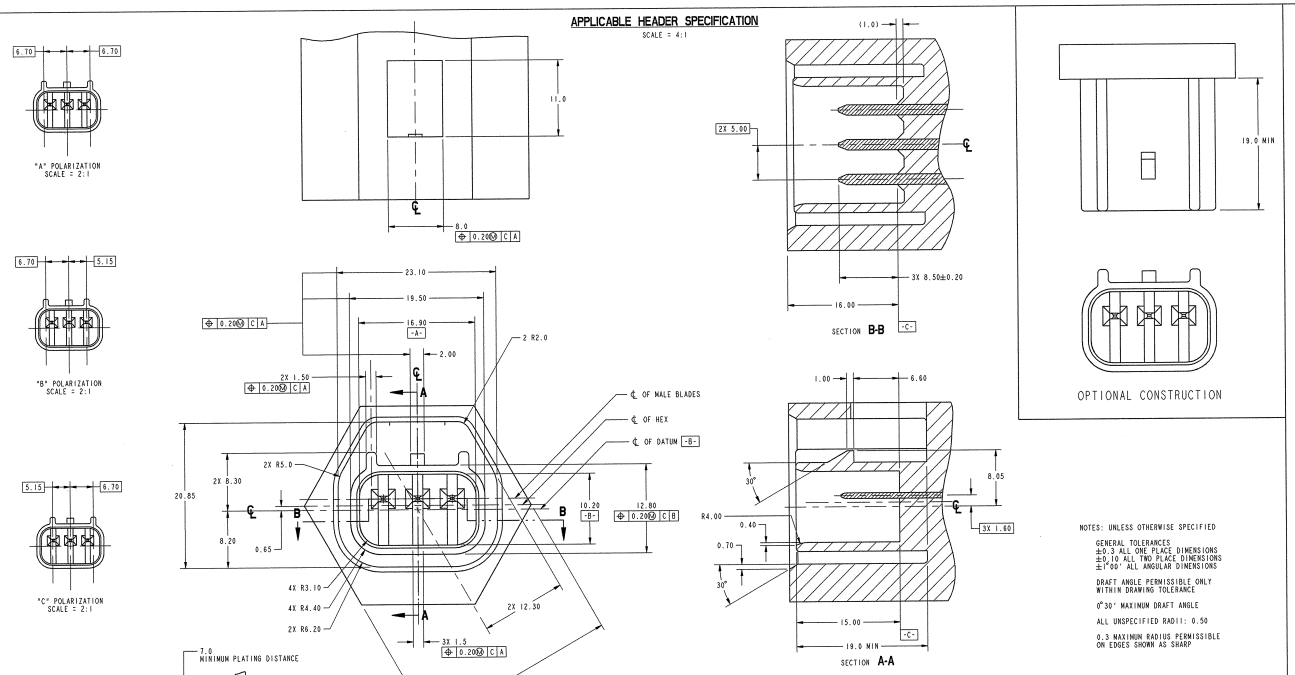
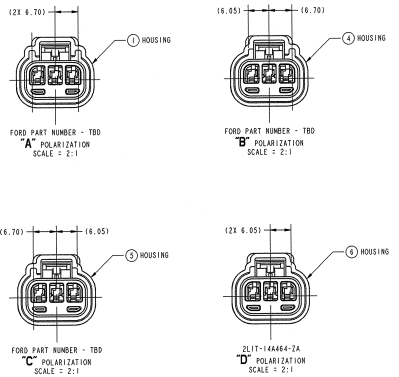
APPLICABLE HEADER SPECIFICATION

SCALE = 4:1





MALE TERMINAL AND ELECTRICAL REQUIREMENTS
(EXCEPTIONS MUST BE APPROVED BY THE RESPONSIBLE ENGINEER)

BASE MATERIAL - COPPER ALLOY

ELECTRICAL CONDUCTIVITY - >=28% IACS AT 20°C (AS ANNEALED).
USE OF MATERIALS WITH CONDUCTIVITY <28% IACS OR NON-COPPER ALLOYS ARE ACCEPTABLE WHEN APPROVED BY THE RESPONSIBLE ENGINEER.

CONTACT AREA PLATING - (ES-F8DB-1A4229-AA, BA, CA, DA)
TIN - FOR UP TO 125°C MAX. CONTINUOUS TEMPERATURE
BARRIER PLATE - (OPTIONAL FOR SOLDERABILITY) UNDERPLATE WITH COPPER 0.0025MM (100 MICRO-INCHES) MIN. THICKNESS.
TOP LAYER - 0.0050±0.0025MM (200 MICRO-INCHES) TIN

PRECIOUS METAL - (WHEN SPECIFIED)
BARRIER PLATE - (OPTIONAL FOR SOLDERABILITY) UNDERPLATE WITH COPPER 0.0025MM (100 MICRO-INCHES) MIN. THICKNESS.
INTERMEDIATE LAYER #1 - NICKEL - 0.0012MM (50 MICRO-INCHES) MIN. NICKEL ELECTROPLATE
INTERMEDIATE LAYER #2 - (OPTIONAL) - 0.001MM (40 MICRO-INCHES) MIN. PALLADIUM ELECTROPLATE
TOP PLATING - 0.0001MM (4 MICRO-INCHES) MIN. HARD-GOLD ELECTROPLATE IF INTERMEDIATE LAYER #2 IS APPLIED.
0.0005MM (20 MICRO-INCHES) MIN. HARD-GOLD ELECTROPLATE IF INTERMEDIATE LAYER #2 IS NOT APPLIED.

PROCESS LUBRICANT:
ANY PROCESS LUBRICANT REMAINING ON THE TERMINAL MUST NOT VARNISH OR DEGRADE ITS ELECTRICAL PERFORMANCE UP TO A MAXIMUM CLASS AMBIENT TEMPERATURE PER SAE/USCAR-2 FOR 1000 HOURS. PROCESS LUBRICANTS SHOULD BE APPROVED BY THE RESPONSIBLE ENGINEER.

NOTES: UNLESS OTHERWISE SPECIFIED

GENERAL TOLERANCES
±0.3 ALL ONE PLACE DIMENSIONS
±0.10 ALL TWO PLACE DIMENSIONS
±1°00' ALL ANGULAR DIMENSIONS

DRAFT ANGLE PERMISSIBLE ONLY WITHIN DRAWING TOLERANCE

0°30' MAXIMUM DRAFT ANGLE

ALL UNSPECIFIED RADII: 0.50

0.3 MAXIMUM RADIUS PERMISSIBLE ON EDGES SHOWN AS SHARP

REMARKS

THE MASTER SOURCE OF INFORMATION FOR THIS DRAWING IS IN A PE COMPUTER DATABASE. CHANGES ARE NOT PERMITTED WITHOUT PRIOR CONSENT OF THE RELEVANT ENGINEERING CAD ACTIVITY.

DIMENSION AND INSTRUCTIONS WHICH ARE NOT DEFINED ARE LEFT TO THE SUPPLIERS DISCRETION. PROVIDING THE FUNCTION OF THE PART IS NOT IMPAIRED.

NOTES: UNLESS OTHERWISE SPECIFIED

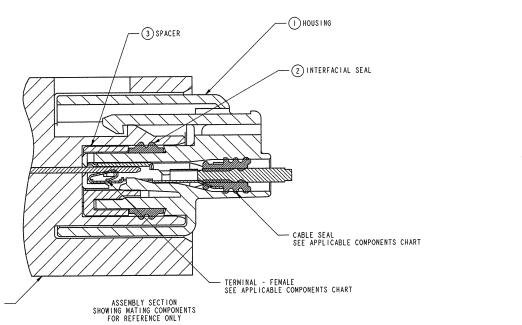
GENERAL TOLERANCES
±0.3 ALL ONE PLACE DIMENSIONS
±0.10 ALL TWO PLACE DIMENSIONS
±1°00' ALL ANGULAR DIMENSIONS

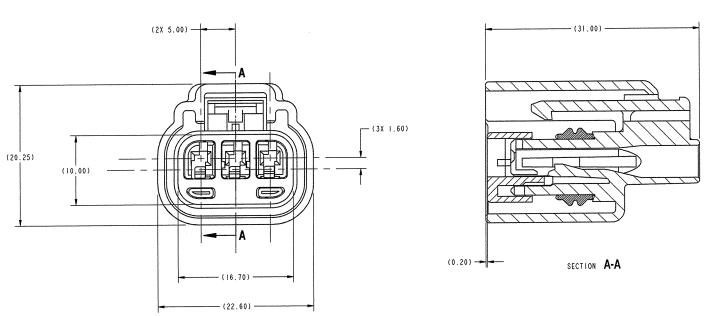
PART MUST CONFORM TO ES-F8DB-14A464-AA (10-11-95)

PART MUST CONFORM TO THE ELECTRICAL CONNECTION SUBSYSTEM (SDS) SPECIFICATION. (REV. 5.0/18-DEC-98) EXCEPT EL-0057.0074

ESTIMATED MATING FORCES:
TIN TERMINALS = (38 N)
GOLD TERMINALS = (33 N)

LTRS	REVISION			
ORIGINATOR	CHECKER	ENGR APP	MATL APP	
	RELEASED 2LIT-14A464-ZA NB00-E-11053542-026			
S FINSTROM	D OSTERHOUSE			
A	UPDATED "LIST OF PARTS" CHART ARCHIVED DATE NB00-E-10951581-137			
S FINSTROM	D OSTERHOUSE			
B	SEAL MATERIAL WAS SAE J200 M2GE 303 ARCHIVED DATE NB00-E-11634555-319			
C SHINABARGAR	R WILLIS			





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REFERENCE APPLICABLE COMPONENTS - 1.5mm TERMINAL

TERMINAL					WIRE SEAL				
DESCRIPTION	FORD COMPONENT PART NUMBER	MATERIAL/SPECIFICATION NUMBER	APPLICABLE WIRE SIZES	FORD COMPONENT MATING PART NUMBER	FORD PART NUMBER	AFL PART NUMBER	WIRE OUTER DIAMETER RANGE	COLOR	MATERIAL
TERMINAL-FEMALE (SN)	9TBG-14474-ADA	COPPER ALLOY/TIN PLATE	0.35-0.50 mm² OR 20-22 AWG	9TBG-14421-ADA	9TBG-10C930-SB	E-1644-01	1.19 - 1.64 O.D.	PINK	ESB-M2D280-A7 SILICONE RUBBER DUROMETER = 40
TERMINAL-FEMALE (AU)	9TBG-14474-AHA	COPPER ALLOY/GOLD PLATE	0.35-0.50 mm² OR 20-22 AWG	9TBG-14421-AHA	9TBG-10C930-SB	E-1644-01	1.19 - 1.64 O.D.	PINK	
TERMINAL-FEMALE (SN)	9TBG-14474-ADA	COPPER ALLOY/TIN PLATE	20 AWG	9TBG-14421-ADA	XW43-14603-A	E-1644-00	1.65 - 2.10 O.D.	GREEN	
TERMINAL-FEMALE (AU)	9TBG-14474-AEA	COPPER ALLOY/TIN PLATE	0.75-1.00 mm² OR 18-18 AWG	9TBG-14421-AEA	XW43-14603-A	E-1644-00	1.65 - 2.10 O.D.	GREEN	
TERMINAL-FEMALE (AU)	9TBG-14474-AHA	COPPER ALLOY/GOLD PLATE	20 AWG	9TBG-14421-AHA	XW43-14603-A	E-1644-00	1.65 - 2.10 O.D.	GREEN	
TERMINAL-FEMALE (AU)	9TBG-14474-AJA	COPPER ALLOY/GOLD PLATE	0.75-1.00 mm² OR 18-18 AWG	9TBG-14421-AJA	XW43-14603-A	E-1644-00	1.65 - 2.10 O.D.	GREEN	
TERMINAL-FEMALE (SN)	9TBG-14474-AEA	COPPER ALLOY/TIN PLATE	16 AWG	9TBG-14421-AEA	XW47-14603-F	E-1644-02	2.11 - 2.50 O.D.	YELLOW	
TERMINAL-FEMALE (AU)	9TBG-14474-AJA	COPPER ALLOY/GOLD PLATE	16 AWG	9TBG-14421-AJA	XW47-14603-F	E-1644-02	2.11 - 2.50 O.D.	YELLOW	
TERMINAL-FEMALE (SN)	9TBG-14474-AKA	COPPER ALLOY/TIN PLATE	1.50 mm² OR 14 AWG	NONE	XW47-14603-F	E-1644-02	2.11 - 2.50 O.D.	YELLOW	

LIST OF PARTS

MAX. TEMP. (AMBIENT + RISE) = 175°C (CLASS #4)

FORD ASSEMBLY NO.	AFL ASSY NO.
TBD	TBD
TBD	TBD
TBD	TBD
2LIT-14A464-ZA	E-5756

ITEM	DESCRIPTION	COLOR	AFL PART NUMBER	MATERIAL SPECIFICATION	MATERIAL I.D. SYMBOL	NUMBER OF ITEMS REQUIRED		
1	HOUSING - POL A	TBD	TBD	WSK-M4DT25-A2	>PBT-GF30<			
B 2	INTERFACIAL SEAL	GREEN	E-5758	SAE J200 M2GE 403	>YMQ<			1
3	SPACER	RED	E-5759	WSK-M4D790-A	>PBT+PC-GF30<			
4	HOUSING - POL B	TBD	TBD	WSK-M4DT25-A2	>PBT-GF30<			
5	HOUSING - POL C	TBD	TBD	WSK-M4DT25-A2	>PBT-GF30<			
6	HOUSING - POL D	BLACK	E-5757	WSK-M4DT25-A2	>PBT-GF30<			1

AFL Automotive Division / EPC	AFL / EPC DRAWING NO.	E-5756 / W-2099	
REFERENCE			
PART MUST COMPLY WITH MATERIAL SPECIFICATION WSS-M99P9999-A1 TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT.			
DRAFTED IN ACCORDANCE WITH FAO ENGINEERING DRAFTING STANDARD CURRENT AT INITIAL RELEASE	3RD ANGLE PROJ DIMENSIONS IN MILLIMETERS		
CAD TYPE X-OTHER	CAD LOC. N/A	CAD FILE	EM IS MASTER
QPER. NO.	UNIT	DRAWING	2LIT-14A464-ZA
DESIGN FINSTROM	DETAIL FINSTROM	TITLE	SLEEVE ASSEMBLY WIRE CONNECTOR - FEMALE
CHECKED OSTERHOUSE	SAFETY		SHT 1 OF 1
SCALE 4:1	DATE 00-01-06	DIVISION PLANT	Ford Motor Company

FORM SIZE A0