



CORPORATE PRODUCT APPROVALS

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October 5, 1987

Mr. Dal Allan
ENDL Consulting
Vice Chairman X3T9.3
14426 Black Walnut Court
Sarasota, CA 95070

Dear Dal:

Enclosed are the frame ground .187 male and female connector drawings as promised in my 6/19/87 letter to add to the ESDI document X3T9.3/87-005, Drawing #5-7, J4/P4.

Please add them to the standard in the format you prefer. Along with the frame ground drawing is a copy of ANSI/NEMA DC 2-1982 standard to which they conform.

Also enclosed are the 20 & 34 flat ribbon center polarized cable connectors, P1 & P2. Either the use of these drawings or the drawings submitted by Harvey Waltersdorf 9/11/87 (attachment #2 & #3) could be accepted by the committee with exception of his Fig. 5-1A: J1 header connector dimension D4. That dimension should be .336 for the 20 pin and 34 pin columns. And on Fig. 5-1B: P1 Receptacle connector, C2 dimension should be moved to the lower connector drawing to show a more proper view of C2 dimension.

Yours truly,

AMP INCORPORATED

Charles E. Brill

Charles E. Brill
Manager - Computer Standards
Corporate Product Approvals

CEB:jmt

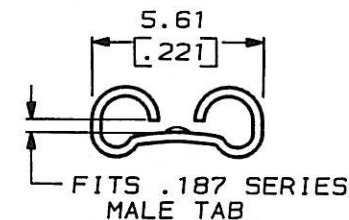
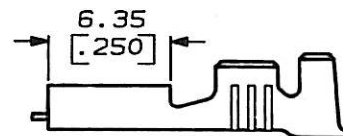
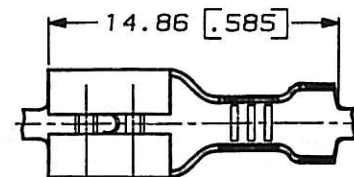
Enclosures

cc: Mr. Gary Robinson
Chairman X3T9.3
DEC
146 Main St.
ML 12/3E51
Maynard, MA 01754

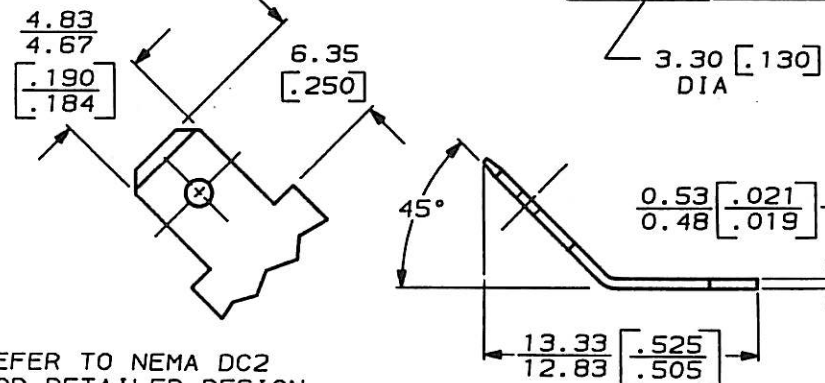
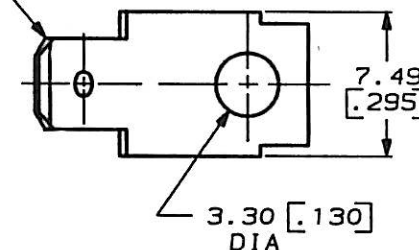
Mr. John Lohmeyer
Chairman X3T9.2
3718 N. Rock Road
Wichita, KS 67226

Harvey Waltersdorf
T&B
920 Route 202
Rariton, NJ 08869

X3T9.2/87-170



FITS .187 SERIES
FEMALE RECEPTACLE



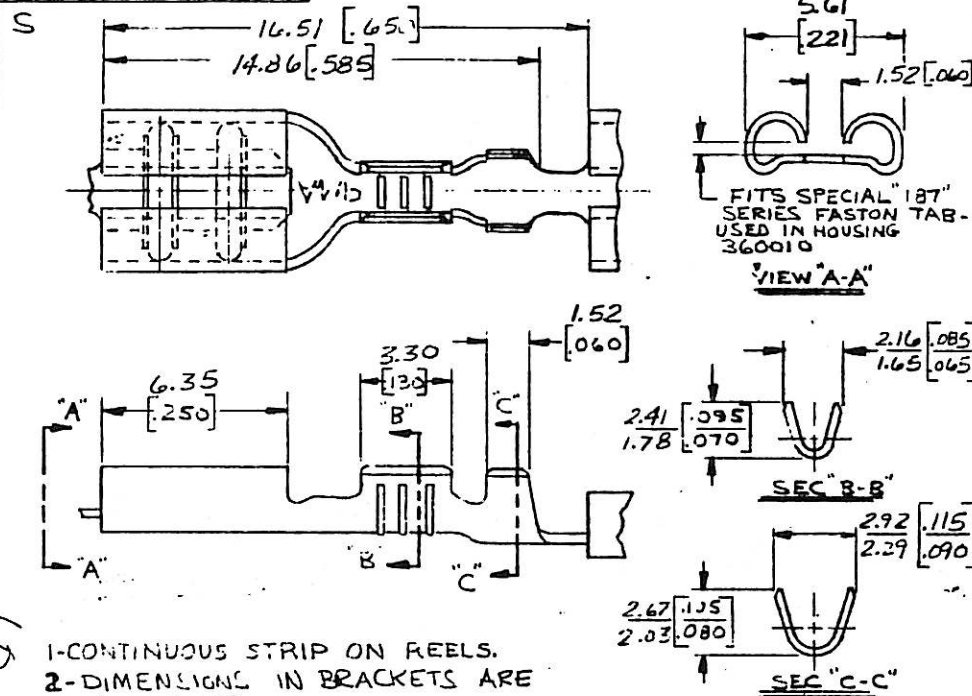
REFER TO NEMA DC2
FOR DETAILED DESIGN
STANDARDS FOR MALE TABS.

DRAWING MADE IN THIRD ANGLE PROJECTION

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PENDING.

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	RELEASED	1-7-74	LKE
B	REVISED A-47	4-19-74	WEM
C	ADDED METRIC TO DWG.	9/10/87	WEM



1-CONTINUOUS STRIP ON REELS.
2-DIMENSIONS IN BRACKETS ARE
IN INCHES.

0.51 [020]	1.02-1.78 [040-070]	0.2-0.5 [008-020]	62187-1
TAB THK.	INSULATION RANGE	WIRE RANGE	PART NO

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES.
TOLERANCES ON:
DECIMALS ± 0.005
ANGLES $\pm 1.0^\circ$

CONTRACT NO
OR LK ESPENSHADE 9-7-73
CHK

AMP INCORPORATED
Harrisburg, Pa.

MATERIAL
0.30 [012]
BRASS

APPD
APPD 9-7-73

NAME
"187" SERIES FASTON RECEPTACLE

FINISH
TIN

OTHER APPD

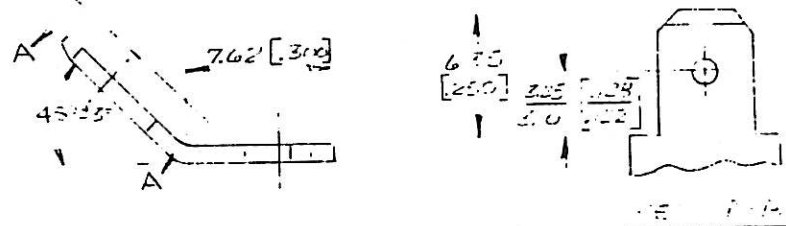
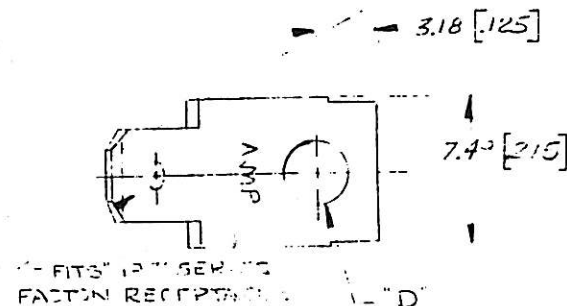
SIZE CODE IDENT NO NUMBER
A 00779 62187

SCALE SHEET 1 OF 1

AMP 1489-32 (1-73)

CUSTOMER DRAWING

NUMBER
51761



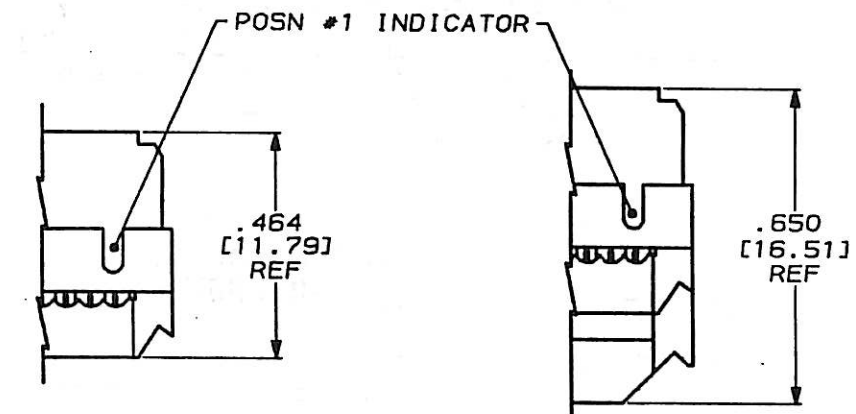
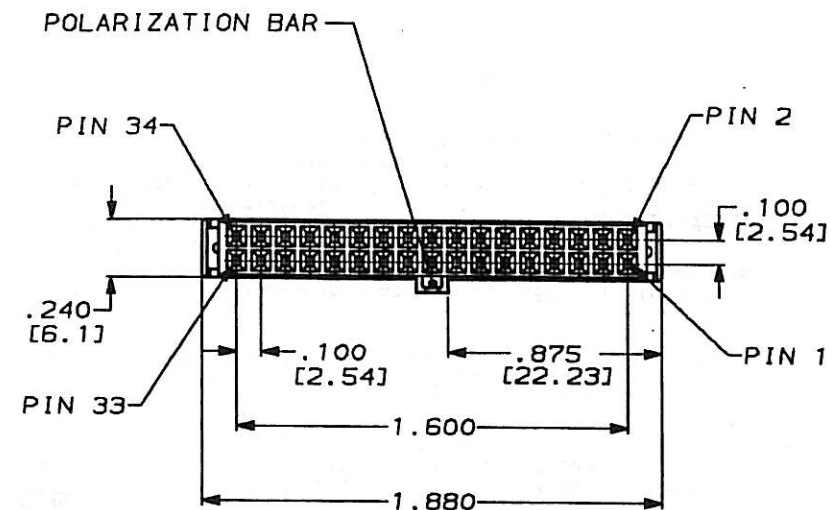
TERMINAL NUMBER	STUD #	ID HOLE ±.003	MATERIAL AND FINISH
61761-1	4	3.30	0.51 [020] BRASS - NONE
61761-2	4	[1.30]	[0.20] BRASS - TIN

1-DIMENSIONS IN BRACKETS ARE
IN INCHES.

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MATERIAL AND FINISH				AMP INCORPORATED HARRISBURG, PENNA.			
C ADDED METRIC				CLASS			
WIRE RANGE - INSULATION TYPE				SCALE			
LTR REVISION RECORD				TOLERANCE EXCEPT AS NOTED			
DR 1-7-74				SCALE 4-1			
CHK				LOC 11			
NAME				NO 61761			
TAB "187" SERIES FASTON				REV 2			

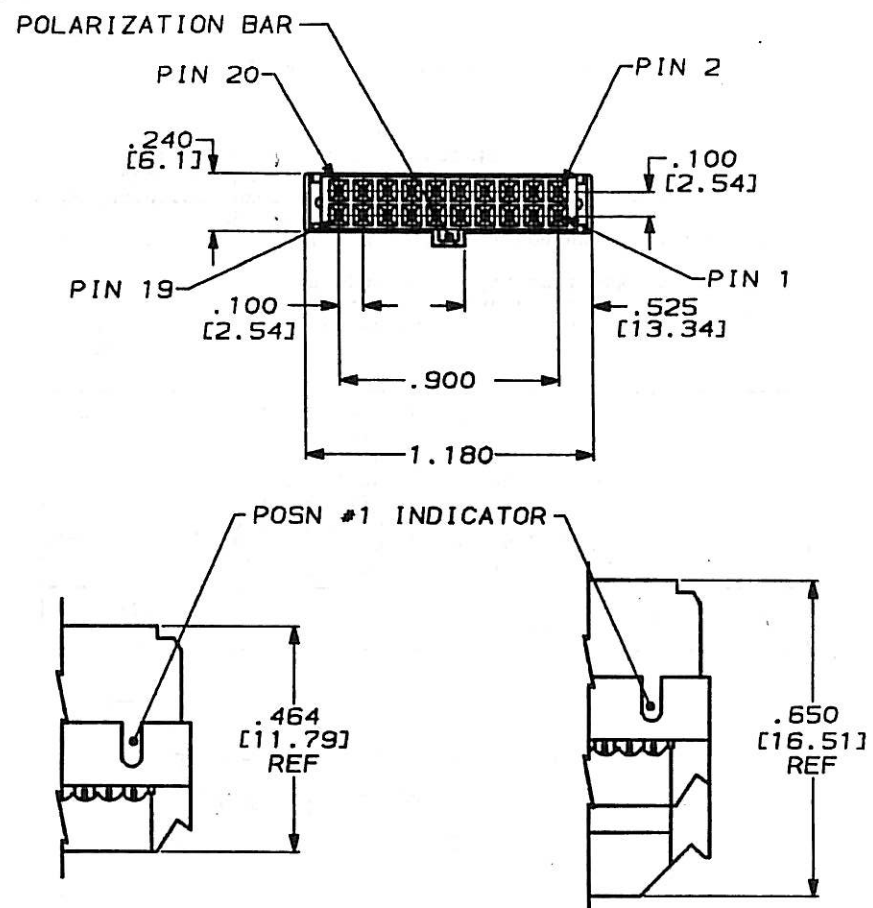
AMP 1252 REV 6/87



TERMINATED
WITH RECESSED COVER

TERMINATED
WITH RECESSED COVER
AND STRAIN RELIEF

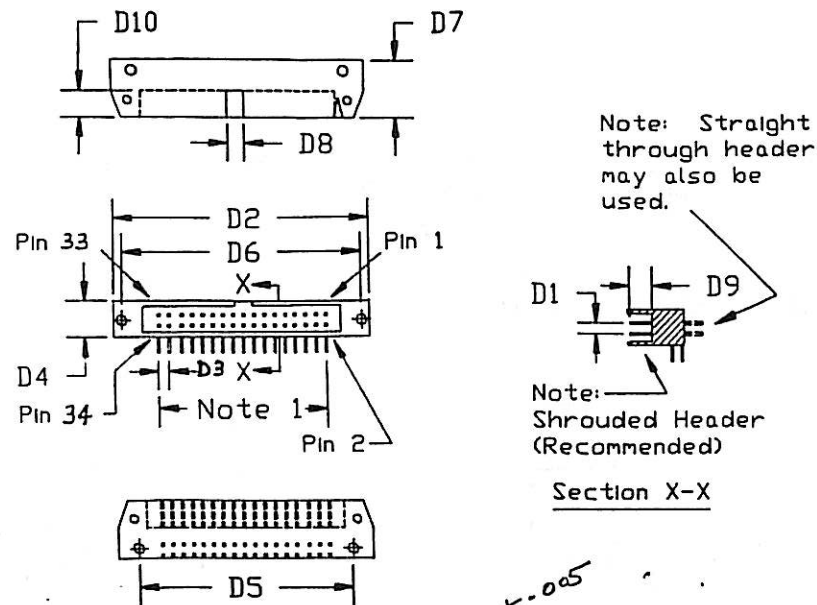
P1 RECEPTACLE CONNECTOR DIMENSIONS
METRIC DIMENSIONS ARE IN PARENTHESIS



TERMINATED
WITH RECESSED COVER

TERMINATED
WITH RECESSED COVER
AND STRAIN RELIEF

P2 RECEPTACLE CONNECTOR DIMENSIONS
METRIC DIMENSIONS ARE IN PARENTHESIS

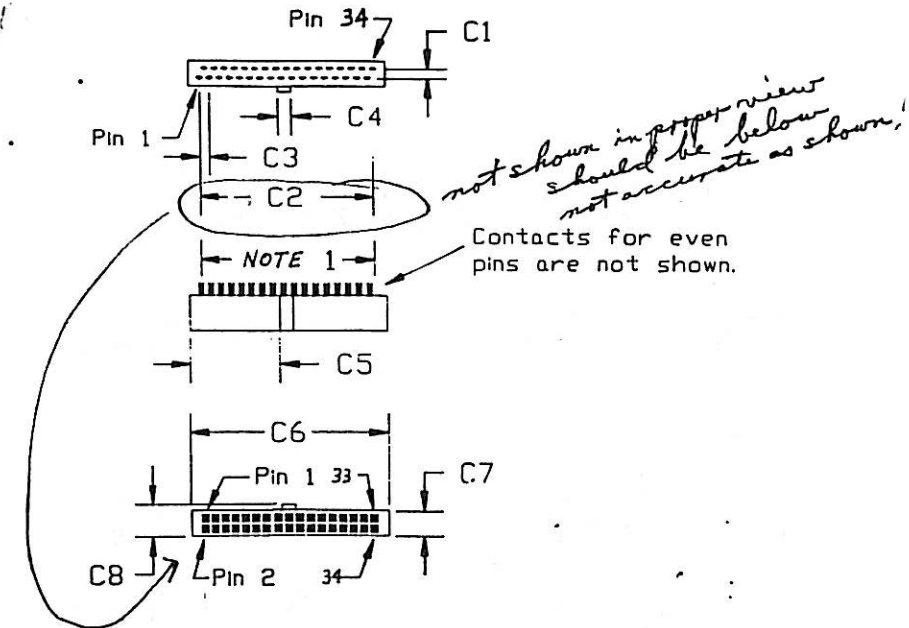


DIMENSION	20 PIN		34 PIN		COMMENTS
	MM	IN	MM	IN	
D1	2.540	0.100	2.540	0.100	REF. ONLY
D2	44.700	1.760	62.480	2.460	REF. ONLY
D3	2.540	0.100	2.540	0.100	REF. ONLY
D4	8.890	0.350	8.890	0.350	REF. ONLY
D5	34.540	1.360	52.320	2.060	REF. ONLY
D6	40.640	1.600	58.420	2.300	REF. ONLY
D7	13.940	0.549	13.940	0.549	REF. ONLY
D8	4.190	0.165	4.190	0.165	NOTE 4
D9	6.090	0.240	6.090	0.240	
D10	6.600	0.260	6.600	0.260	REF. ONLY

NOTES:

- Two rows of seventeen contacts on 2.54mm (0.100in) spacing = 40.64mm (1.600in). Two rows of ten contacts on 2.54mm (0.100in) spacing = 22.86mm (0.900in).
- Tolerances +/- 0.127mm (0.005in) noncumulative, unless otherwise specified.
- Connector shown is the 34 pin variation. The 20 pin variation has similar construction.
- The tolerance for dimension D8 is +/- 0.25mm (.010in).

Fig. 5-1A: J1 Header Connector



DIMENSION	20 PIN		34 PIN		COMMENTS
	MM	IN	MM	IN	
C1	2.540	0.100	2.540	0.100	
C2	22.860	0.900	40.640	1.600	
C3	2.540	0.100	2.540	0.100	
C4	3.302	0.130	3.302	0.130	
C5	13.335	0.525	22.225	0.875	
C6	29.972	1.180	47.752	1.880	
C7	6.096	0.240	6.096	0.240	
C8	7.620	0.300	7.620	0.300	MAX.

NOTES:

- Thirty-four contacts on 1.27mm (0.05in) staggered spacing = 41.91mm (1.650in). Twenty contacts on 1.27mm (0.05in) staggered spacing = 24.13mm (0.950in). Reference Only.
- Tolerances +/- 0.127mm (0.005in) noncumulative, unless otherwise specified.
- Connector cover and strain relief are optional.
- Connector shown is the 34 pin variation. The 20 pin variation has similar construction.

Fig. 5-1B: P1 Receptacle Connector