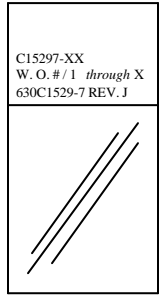


REVISIONS			
SYN.	DESCRIPTION	DATE	APPROVAL
F	NO CHANGE THIS SHEET	4/98	JAB
G	ADDED ECN4457	10/99	LTL
H	ADDED ECN4635	1/21/00	JAB
I	ADDED ECN6720	1/31/03	RWR
J	ADDED ECN10739	1/2008	JFM

AMP PLUG #745496-2 (ECK786)  
AMPHENDL BACKSHELL #17-1726-2 (ECK656)

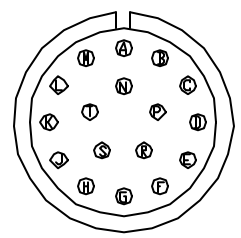
PIN	WIRE	SIGNAL
13	GRN/WHT	BRK-
12	WHT	CW/+ LMT
11	BLU/WHT	HALL C
10	RED/WHT	HALL A
9	-	-
8	-	-
7	BLU/BLK	MKR
6	ORN/BLK	MKR-N
5	BLK/WHT	HALL B
4	-	-
3	RED/GRN RED/BLK RED/BLK/WHT BLK/WHT/RED	ENC +5V
2	-	-
1	SHIELD	SIG SHLD
14	WHT/RED	CDS
15	ORN/RED	COS-N
16	RED	LMT +5V
17	BLU/RED	SIN
18	BLK/RED	SIN-N
19	-	-
20	GRN	LMT COM
21	BLU GRN/BLK ORN/GRN GRN/BLK/WHT	ENC COM
22	ORN	HM LMT
23	-	-
24	BLK	CCW/- LMT
25	WHT/BLK	BRK+

LABELS:  
(2) REQUIRED,  
(1 AT EACH END)



STRAIGHT PLUG MS3106A-20 (MCM454)  
INSERT MS20-29S (MCM464)  
CLAMP 97-3057-1012 (MCM457)  
BUSHING AN3055-22-12 (MCM493)

SIGNAL	WIRE	SOCKET
ENC COM	BLU	G
	GRN/BLK	
	ORN/GRN	
ENC +5V	GRN/BLK/WHT	H
	RED/GRN	
	RED/BLK	
	RED/BLK/WHT	
SHIELD	MAIN SHIELD	J
	LIMIT SHIELD	
MRK-N	ORG/BLK	F
BRK+	WHT/BLK	S
-	-	R
MKR	BLU/BLK	E
HALL A	RED/WHT	K
-	-	L
BRK-	GRN/WHT	T
HALL C	BLU/WHT	P
SIN-N	BLK/RED	D
HALL B	BLK/WHT	M
-	-	N
SIN	BLU/RED	C
CDS-N	ORN/RED	B
COS	WHT/RED	A



WIRE SIDE VIEW  
AMPHENDL INSERT  
MS20-29S (MCM464)

3

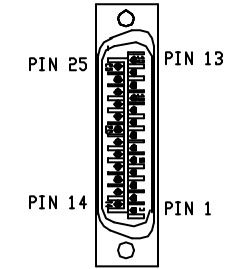
FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1  
WITH AMP HEAD ASSY 58063-2

2

USE 2' LENGTHS OF THICK WALL HEATSHRINK TUBING  
(E1W0013 - QTY 1, E1W0012 - QTY 1) TO BUILD UP CABLE  
DIAMETER FOR PROPER STRAIN RELIEFING.  
STRAIN RELIEFING MUST WITHSTAND 35 LB. PULL.

1

STARTING CABLE LENGTH = 2.5 FT BEYOND SPECIFIED CABLE LENGTH  
DO NOT EXCEED LENGTH OF 80 FT FOR THIS DESIGN.



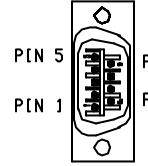
WIRE SIDE VIEW  
AMP PLUG #745496-2 (ECK786)

UNUSED WIRES: (1) WHT/BLK/RED

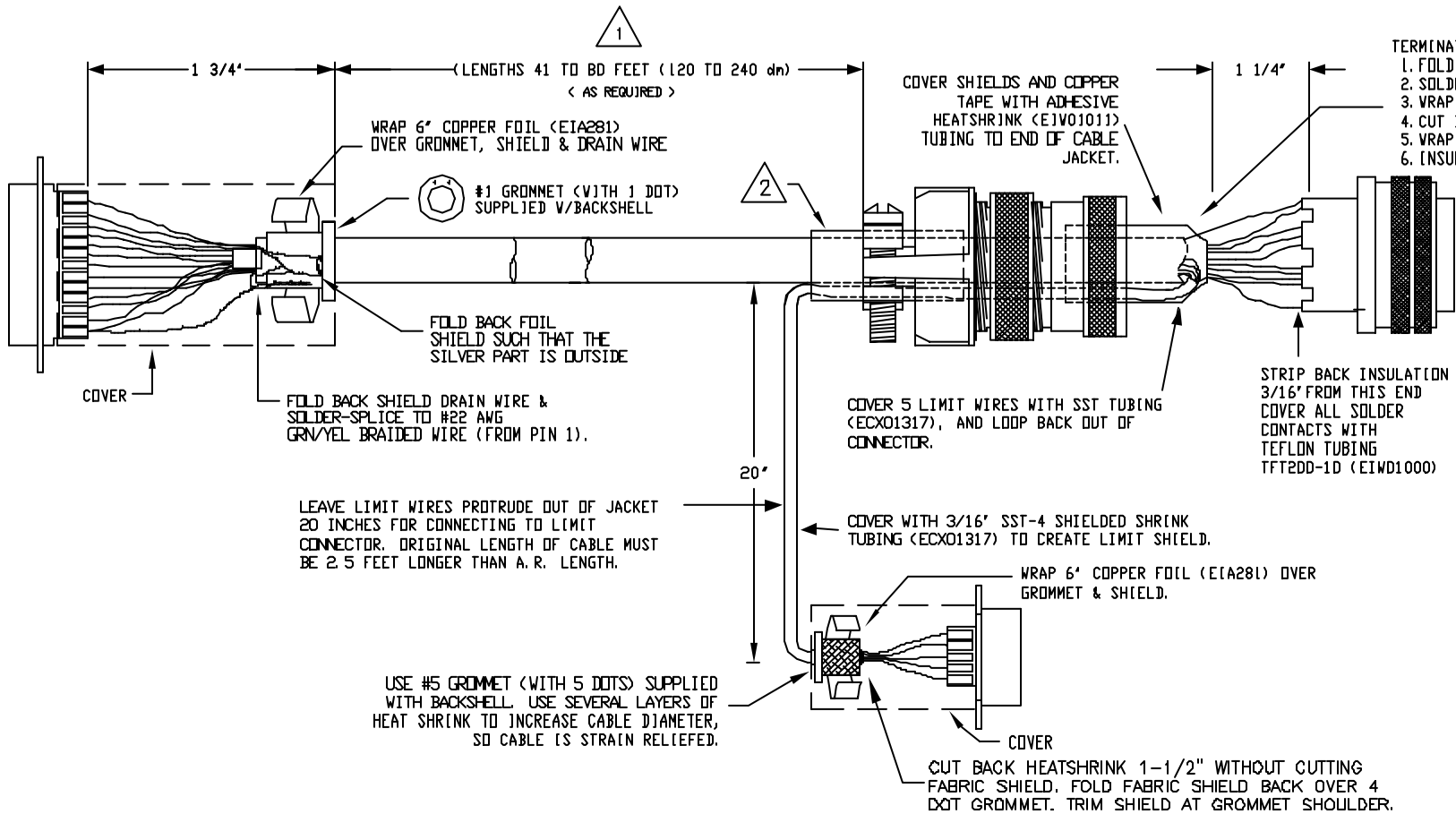
CONSOLIDATED #5737-CL  
(25 COND, #22), ECX01D44

AMP SOCKET #745491-2 (ECK781)  
AMPHENDL BACKSHELL #17-1724-2 (ECK01021)

SIGNAL	WIRE	SOCKET
LMT +5V	RED	1
LMT COM	GRN	2
CW/+ LMT	WHT	3
HM LMT	ORN	4
CCW/- LMT	BLK	5
LIMIT SHIELD	SHIELD	CASE



WIRE SIDE VIEW  
AMP SOCKET #745491-2 (ECK781)



- TERMINATING BOTH SHIELDS TO EACH OTHER AND TO PIN J:
1. FOLD BACK MAIN SHIELD.
  2. SOLDER MAIN SHIELD TO #22 GRN/YEL WIRE.
  3. WRAP SHIELD WITH 1 LAYER OF COPPER TAPE.
  4. CUT BACK SST TUBING & FOLD BACK INNER FABRIC SHIELD.
  5. WRAP FABRIC SHIELD WITH 1 LAYER OF COPPER TAPE.
  6. INSULATE WITH ADHESIVE SHRINK TUBING (E1W01011).

QTY: 1  
WORK ORDER NUMBER: #####  
CUSTOMER NAME: XXXXXXXX  
ORDER NUMBER: #####  
APPROVED BY: XXX RELEASE DATE: #####  
FILENAME: ##### 630C1529-7J1 C15297 Cable.Dwg

**PROPRIETARY INFORMATION**  
THIS DRAWING IS THE PROPERTY  
OF AEROTECH, INC. AND IS  
SUBMITTED IN CONFIDENCE AND  
SHALL NOT BE REPRODUCED NOR  
COPIED NOR DISCLOSED TO OTHERS  
UNDER PENALTY OF LAW.



AEROTECH, INC. 101 Zeta Drive  
Pittsburgh, PA. 15238  
(412)963-7470 TWX710-795-3125

TOLERANCES ON  
FRACTIONS DECIMALS ANGLES  
0 TO 6 ± 1/32 .XX ± .01 ± 0-30'  
OVER 6 ± 1/16 .XXX ± .005

C15297-121 TO C15297-240  
(FORMERLY BFC-41 TO BFC-80)  
BRUSHLESS FEEDBACK CABLE

RMS FINISH ✓ EXCEPT AS NOTED

DRAWN	LTL	1/4/99
CHECKED	JAB	1/21/00
APP'D.	JAB	1/21/00

PART CODE	SIZE	REV.
C15297-xx	C	J
SCALE NTS	FILE NAME 630C1529-7J1.Dwg	SHEET 1 OF 1