

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVAL
Q1-3	ADDED ECN 10B1, 1125, OPTIONAL CABLE TYPES	3/31/94	LTR, EJB
A, B	ADDED ECN 1642, 1786	1/16, 3/96	WC, LTR
C, D	ADDED ECN 2442, 2892	4/17, 6/97	LTR, NTC
E, F	ADDED ECN 2729, 2766	1/17, 7/97	WG, NTC
G, H	ADDED ECN 4457, 4835	10/19, 1/00	LTL, JAB
I, J	ADDED ECN 6720, 7306	1/02, 8/03	RWR, EJB
K	ADDED ECN 7841	4/04	EJB
L	ADDED ECN 10728	1/08	JFM

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

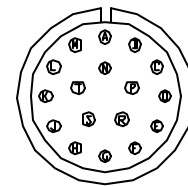
LABELS:  
(2) REQUIRED,  
(1 AT EACH END)

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

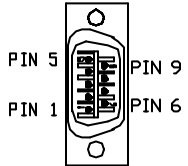
PIN	WIRE	SIGNAL
13	BLU/BLK	BRK-
12	WHT	CW/+ LMT
11	GRY/RED	HALL C
10	GRY/BLK	HALL A
9	-	-
8	-	-
7	BRN	MKR
6	WHT/BRN	MKR-N
5	WHT/GRY	HALL B
4	-	-
3	#22 VIO	ENC +5V
2	#22 WHT/VIO	-
1	OUTER SHLD	OUTER SHIELD
14	RED	COS
15	WHT/RED	COS-N
16	#24 RED/DRN	LMT +5V
17	DRN	SIN
18	WHT/DRN	SIN-N
19	-	-
20	#24 BLK/DRN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

SIGNAL	WIRE	SOCKET
ENC COM	#22 GRN	G
ENC +5V	#22 WHT/GRN	H
OUTER SHIELD	OUTER SHIELD	J
MKR-N	WHT/BRN	F
BRK+	BLU	S
-	-	R
MKR	BRN	E
HALL A	GRY/BLK	K
-	-	L
BRK-	BLU/BLK	T
HALL C	GRY/RED	P
SIN-N	WHT/DRN	D
HALL B	WHT/GRY	M
-	-	N
SIN	DRN	C
COS-N	WHT/RED	B
COS	RED	A
INNER SHIELD	INNER SHLD	N.C.

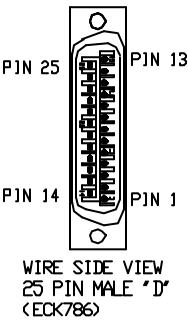
SIGNAL	WIRE	SOCKET
LMT +5V	RED/DRN	1
LMT COM	BLK/DRN	2
CW/+ LMT	WHT	3
HM LMT	PINK	4
CCW/- LMT	GRY	5
LIMIT SHIELD	LIMIT SHIELD	CASE



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



WIRE SIDE VIEW  
FEMALE 9 PIN 'D' STYLE  
(ECK00781)



WIRE SIDE VIEW  
25 PIN MALE 'D'  
(ECK786)



UNWRAP INNER FOIL SHIELD AS FAR BACK AS POSSIBLE. SEPARATE GREEN VIRE INSULATION. SOLDER-SPLICE WHT/GRN & INNER DRAIN WIRES TO GREEN VIRE. WRAP INNER FOIL SHIELD OVER SOLDER-SPLICE. COVER INNER BUNDLE, SPLICE & INNER FOIL WITH SHRINK TUBING AS FAR IN CABLE AS POSSIBLE. CONNECT GREEN VIRE TO PIN 21. SEE DETAIL 'A'.  
NOTE: INNER SHIELD MUST NOT TOUCH OUTER SHIELD OR BACKSHELL.



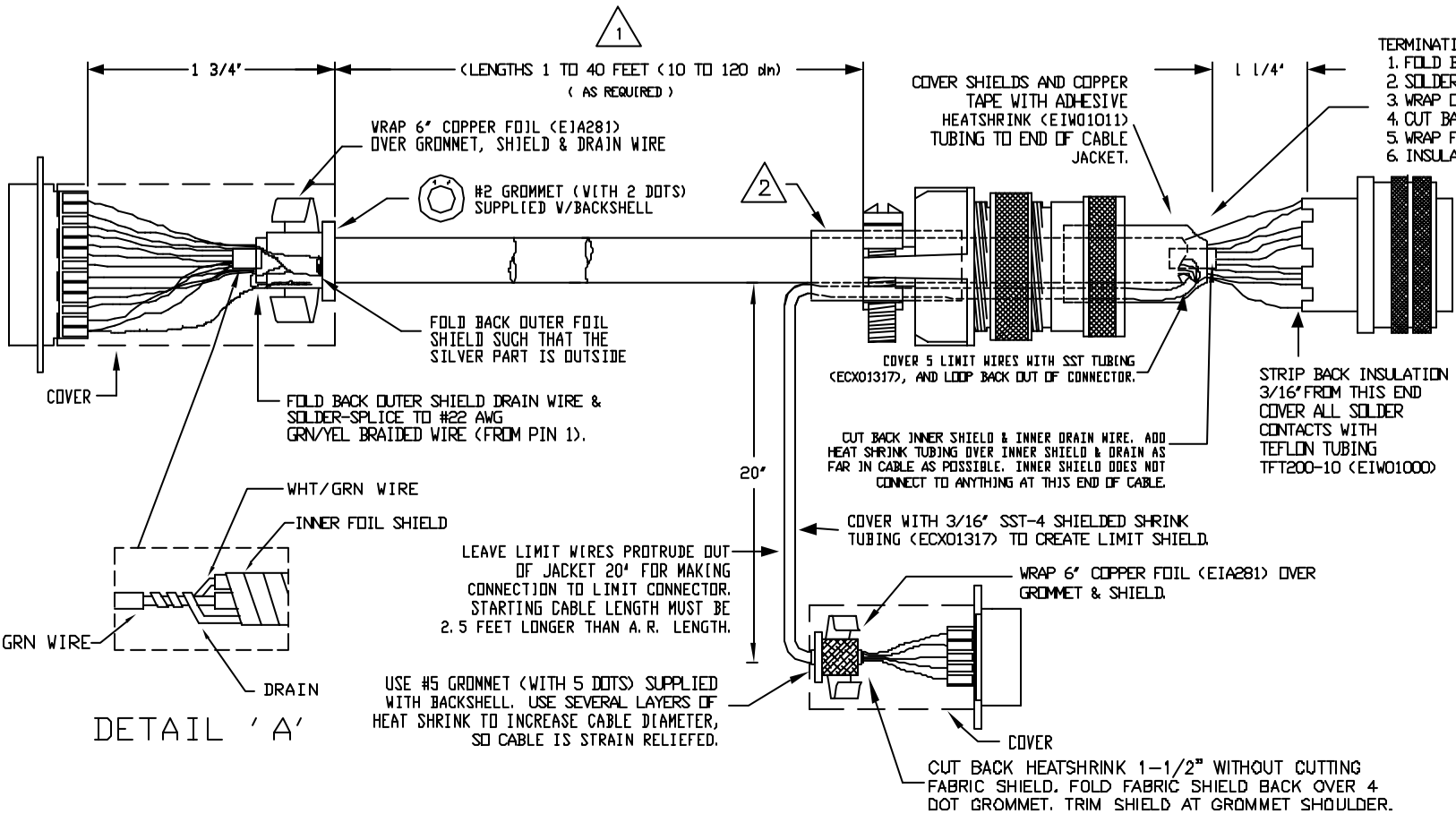
FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2



USE 2" LENGTHS OF THICK WALL HEATSHRINK TUBING (E1V00113 - QTY 1, E1V00112 - QTY 1) TO BUILD UP CABLE DIAMETER FOR PROPER STRAIN RELIEFING. STRAIN RELIEFING MUST WITHSTAND 35 LB. PULL.



STARTING CABLE LENGTH = 2.5 FT BEYOND SPECIFIED CABLE LENGTH DO NOT EXCEED 40 FT. LENGTH FOR THIS DESIGN.



- TERMINATING TWO SHIELDS TO EACH OTHER AND TO PIN J
1. FOLD BACK OUTER SHIELD
  2. SOLDER OUTER SHIELD TO #22 GRN/YEL WIRE
  3. WRAP OUTER 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: ##### 630C1529-1L1 C15291 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. 15238-2897, USA  
http://www.Aerotech.com  
(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		

BRUSHLESS FEEDBACK CABLE (BFC)  
120 DECIMETERS (40') MAX LENGTH  
CABLE: BL FB-25DU-17MS 9DU-MAX120DM

RMS FINISH		EXCEPT AS NOTED		PART CODE	SIZE	REV.
DRAWN	LTL	10/5/99		C15291-xx	C	L
CHECKED	JAB	1/21/00				
APPD.	JAB	1/21/00				
SCALE	NTS	FILE NAME	630C1529-1L1.Dwg	SHEET	1 OF 1	