

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	DRAWN
A		ADDED ECK0656	6-18-00	LTL
B		ADDED ECK10005	01/08	JFM

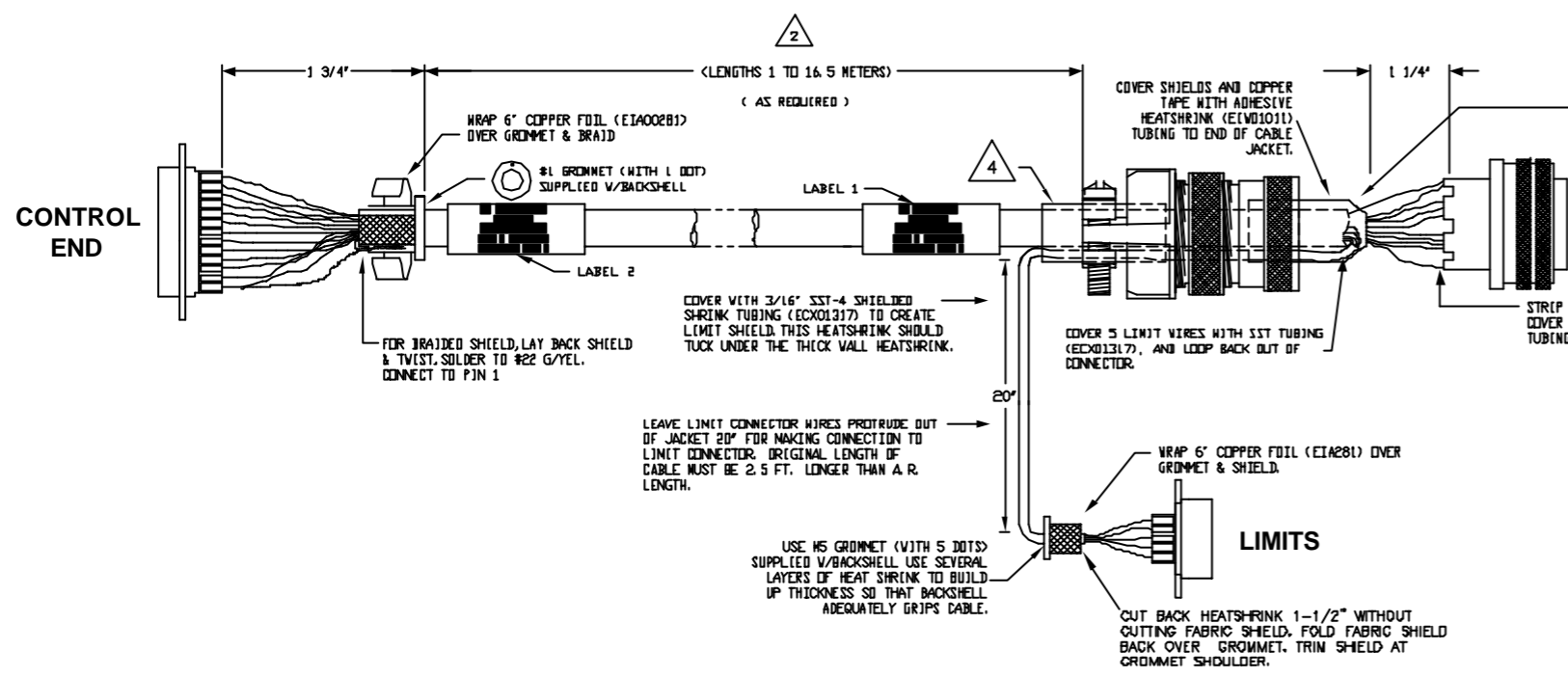
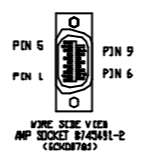
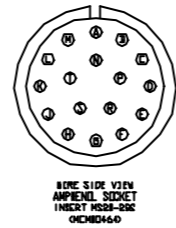
TERMINATION CHART

<p>25DU STRAIGHT BACKSHELL (ECK00656) VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>	<p>25DUT STRAIGHT BACKSHELL (ECK00656) (2) THUMBSCREWS (ECK01247) VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>
<p>25DU45L 45 DEGREE BACKSHELL (ECK01070) LEFT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>	<p>25DU45R 45 DEGREE BACKSHELL (ECK01070) RIGHT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>
<p>25DU90L 90 DEGREE BACKSHELL (ECK01370) LEFT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>	<p>25DU90R 90 DEGREE BACKSHELL (ECK01370) RIGHT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>
<p>9DU STRAIGHT BACKSHELL (ECK01021) VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>	<p>9DUT STRAIGHT BACKSHELL (ECK01021) (2) THUMBSCREWS (ECK01247) VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>

PIN	WIRE	SIGNAL
13	WHT/PNK	BRAKE-
12	PNK	CW/+ LIMIT
11	YEL/BRN	HALL C
10	GRY/BRN	HALL A
9	-	-
8	-	-
7	YEL	MKR
6	WHT/YEL	MKR-N
5	WHT/DRN	HALL B
4	-	-
3	WHT/BLK BRN/GRN WHT/BLU	ENCODER +5V
2	-	-
1	SHIELD	SIGNAL SHIELD
14	WHT	CDS
15	WHT/GRY	CDS-N
16	RED	LMT +5V
17	BLU	SIN
18	RED/BLU	SIN-N
19	-	-
20	BLK	LIMIT COMMON
21	GRN BRN/BLU BRN/RED WHT/RED GRY	ENCODER COMMON
22	BRN	HOME LIMIT
23	-	-
24	GRY/PNK	CCW/- LIMIT
25	PNK/BRN	BRAKE+

SIGNAL	WIRE	SOCKET
ENCODER COMMON	GRN BRN/BLU BRN/RED WHT/RED	G
ENCODER +5V	GRY WHT/BLK BRN/GRN WHT/BLU	H
SHIELD	SIGNAL SHIELD	J
MRK-N	WHT/YEL	F
BRAKE+	PNK/BRN	S
MKR	YEL	E
HALL A	GRY/BRN	K
-	-	L
BRAKE-	WHT/PNK	T
HALL C	YEL/BRN	P
SIN-N	RED/BLU	D
HALL B	WHT/GRN	M
-	-	N
SIN	BLU	C
CDS-N	WHT/GRY	B
CDS	WHT	A

SIGNAL	WIRE	SOCKET
LIMIT +5V	RED	1
LIMIT COMMON	BLK	2
CW/+ LIMIT	PNK	3
HOME LIMIT	BRN	4
CCW/- LIMIT	GRY/PNK	5
LIMIT SHIELD	SHIELD	CASE

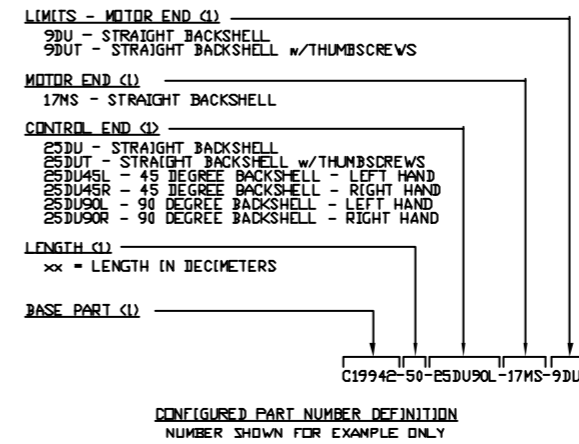


- TERMINATING BOTH SHIELDS TO EACH OTHER AND TO PIN J
1. FOLD BACK MAIN SHIELD.
 2. SOLDER MAIN SHIELD TO #22 GRN/YEL WIRE.
 3. WRAP SHIELD WITH 1 LAYER OF COPPER TAPE.
 4. CUT BACK SST TUBING & FOLD BACK INNER FABRIC SHIELD.
 5. WRAP FABRIC SHIELD WITH 1 LAYER OF COPPER TAPE.
 6. INSULATE WITH ADHESIVE SHRINK TUBING (EIV0101).

1. CABLE OUTER DIAMETER IS 0.389 INCH
MINIMUM BEND RADIUS FOR CONTINUOUS FLEX IS 4.6 INCH
2. STARTING CABLE LENGTH = 2.5 FT BEYOND SPECIFIED LENGTH OF CABLE
DO NOT EXCEED LENGTH OF 54 FT FOR THIS DESIGN
3. FOR CRIMP TOOL USE AMP HANDLE ASSY 38074-1
WITH AMP HEAD ASSY 38063-2
4. USE 2" LENGTHS OF THICK WALL HEATSHRINK TUBING (EIV00113 - QTY 1, EIV00112 - QTY 1) TO BUILD UP CABLE DIAMETER FOR PROPER STRAIN RELIEFING. STRAIN RELIEFING MUST WITHSTAND 35 LB. PULL.
CUT THICK WALL HEATSHRINK TUBING WITH CABLE CUTTER SUCH THAT ENDS ARE PERPENDICULAR TO CABLE AND CUT IS SMOOTH.
THICK WALL HEATSHRINK TUBING:
AMP # 33701-1 (EIV00112) MAX (INSIDE DIA) = .730" (EXPANDED),
MIN (INSIDE DIA) = .620" (RECOVERED)
AMP # 53700-1 (EIV00113) MAX (INSIDE DIA) = .400" (EXPANDED),
MIN (INSIDE DIA) = .150" (RECOVERED)

CONFIGURED CABLE PROCEDURE:

- THE PURPOSE OF THIS DRAWING IS TO DEFINE VARIOUS BACKSHELL AND SCREWLOCK TYPES AS REQUIRED BY THE SHOP TRAVELLER.
- 1.) LOCATE THE SHOP TRAVELLER FOR CABLE TO BE MANUFACTURED.
 - 2.) USING SHOP TRAVELLER AND TERMINATION CHART AT RIGHT:
 - a.) DETERMINE "CONTROL END" TERMINATION.
 - b.) DETERMINE "MOTOR END" TERMINATION.
 - c.) DETERMINE "LIMITS" TERMINATION.
 - 3.) USING THE ABOVE INFORMATION, MANUFACTURE CABLE WITH APPROPRIATE TERMINATIONS.
 - 4.) LABEL CABLE WITH NEW CONFIGURED PART NUMBER, FOLLOWING THE "CONFIGURED PART NUMBER DEFINITION" SHOWN AT FAR RIGHT.



WORK ORDER #: #####

CUSTOMER NAME: XXXXXXXXXXXX

ORDER NUMBER: #####

APPROVED BY: XXX

RELEASE DATE: ##### CUST FILE NAME: XXXXXX 630D1994-2B1.dwg

PROPRIETARY INFORMATION
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AEROTECH
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CONFIGURED HIGH-FLEX BRUSHLESS FEEDBACK CABLE
CABLE: BL FB-25DU-17MS 9DU-HF MAX165DM

REV.	DATE	SCALE	FILE NAME	SHEET	OF
DRAWN	EJB	3/22/05			
CHECKED	JLJ	3/22/05			
APPROV.	JLJ	3/22/05			