

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

CONSOLIDATED #5737-CL  
 (25 COND. #22), ECGX1044

PIN	WIRE	SIGNAL
13	-	-
12	WHT	CW/+ LMT
11	BLU/WHT	HC
10	RED/WHT	HA
9	-	-
8	-	-
7	BLU/BLK	MKR
6	ORN/BLK	MKR-N
5	BLK/WHT	HB
4	-	-
3(1/3)	RED/BLK	ENC +5V
3(2/3)	RED/BLK/WHT	ENC +5V
3(3/3)	WHT/BLK/RED	ENC +5V
2	RED/GRN	EXT S.D.
1	SHIELD	SIG SHLD
14	WHT/RED	COS
15	ORN/RED	COS-N
16	RED	LMT +5V
17	BLU/RED	SIN
18	BLK/RED	SIN-N
19	-	-
20	GRN	LMT COM
21(1/4)	BLU	ENC COM
21(2/4)	GRN/BLK	ENC COM
21(3/4)	GRN/WHT	ENC COM
21(4/4)	ORN/GRN	ENC COM
22	ORN	HM LMT
23	-	-
24	BLK	CCW/- LMT
25	-	-

UNUSED WIRES: (3)  
 WHT/BLK, BLK/WHT/RED, GRN/BLK/WHT

STRAIGHT PLUG MS3106A-20 (MCM454)  
 INSERT MS20-29S (MCM464)  
 CLAMP 97-3057-1D12 (MCM457)  
 BUSHING AN3055-22-12 (MCM493)

CONSOLIDATED #5737-CL  
 (25 COND. #22), ECGX1044

SIGNAL	WIRE	SOCKET
ENC COM	BLU	G(1/4)
ENC COM	GRN/BLK	G(2/4)
ENC COM	GRN/WHT	G(3/4)
ENC COM	ORN/GRN	G(4/4)
ENC +5V	RED/BLK	H(1/4)
ENC +5V	RED/BLK/WHT	H(2/4)
ENC +5V	WHT/BLK/RED	H(3/4)
LMT +5V	RED	H(4/4)
MKR-N	ORN/BLK	F
SIG SHLD	SHIELD	J
CW/+ LMT	WHT	S
HM LMT	ORN	R
MKR	BLU/BLK	E
HA	RED/WHT	K
CCW/- LMT	BLK	T
HC	BLU/WHT	P
SIN-N	BLK/RED	D
EXT S.D.	RED/GRN	L
LMT COM	GRN	N
SIN	BLU/RED	C
HB	BLK/WHT	M
COS-N	ORN/RED	B
COS	WHT/RED	A

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	DRAWN
A		ADDED ECN1709	02-15-96	JAB
B		ADDED ECN2382	1/27/97	WG
C		ADDED ECN2448	2/18/97	WG
D		ADDED ECN2731	6/24/97	NTC
E		ADDED ECN3283	3/16/98	NTC
F		ADDED ECN4611	1/18/00	JAB



USE 2" LENGTHS OF THICK WALL HEATSHRINK TUBING (EIW00113 - QTY 2, EIW00112 - 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 # 53701-1 (EIW00112) MAX INSIDE DIA = .750" (EXPANDED), MIN INSIDE DIA = .220" (RECOVERED)  
 AMP # 53700-1 (EIW00113) MAX INSIDE DIA = .400" (EXPANDED), MIN INSIDE DIA = .150" (RECOVERED)

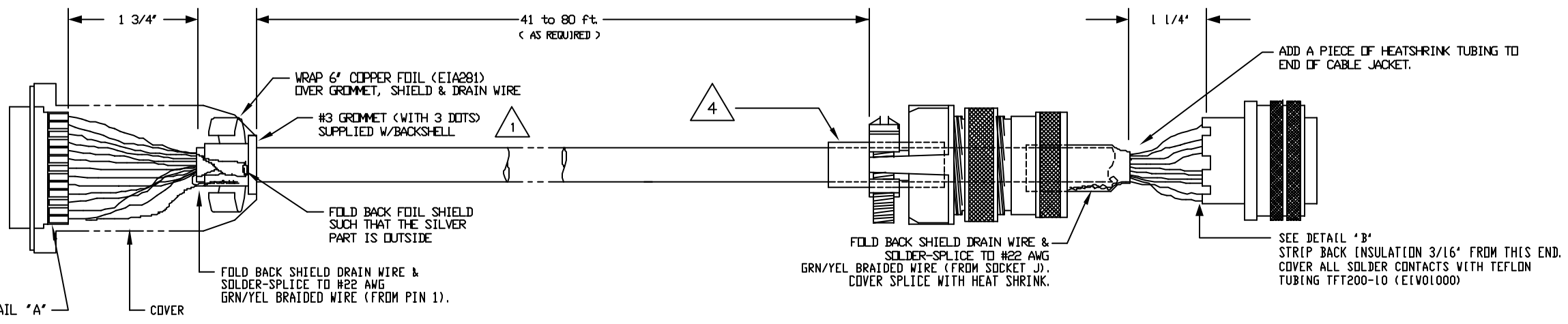
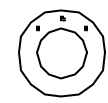


FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2



STARTING CABLE LENGTH = 6in. BEYOND SPECIFIED CABLE LENGTH

USE #3 GROMMET WITH 3 DOTS AS SHOWN BELOW WHICH IS SUPPLIED W/BACKSHELL



SEE DETAIL "A"

COVER

FOLD BACK SHIELD DRAIN WIRE & SOLDER-SPLICE TO #22 AWG GRN/YEL BRAIDED WIRE (FROM PIN 1).

FOLD BACK FOIL SHIELD SUCH THAT THE SILVER PART IS OUTSIDE

WRAP 6" COPPER FOIL (EIA281) OVER GROMMET, SHIELD & DRAIN WIRE

#3 GROMMET (WITH 3 DOTS) SUPPLIED W/BACKSHELL

FOLD BACK SHIELD DRAIN WIRE & SOLDER-SPLICE TO #22 AWG GRN/YEL BRAIDED WIRE (FROM SOCKET J). COVER SPLICE WITH HEAT SHRINK.

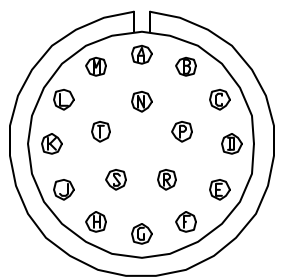
ADD A PIECE OF HEATSHRINK TUBING TO END OF CABLE JACKET.

SEE DETAIL "B" STRIP BACK INSULATION 3/16" FROM THIS END. COVER ALL SOLDER CONTACTS WITH TEFLON TUBING TFT200-10 (EIW01000)



DETAIL "A"

VIEWED FROM WIRE SIDE OF CONNECTOR  
 AMP PLUG #745496-2 (ECK786)



DETAIL "B"

VIEWED FROM WIRE SIDE OF CONNECTOR  
 AMPHENOL SOCKET INSERT MS20-29S (MCM464)

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

RMS FINISH ✓ EXCEPT AS NOTED

DRAWN	EJB	03/95
CHECKED	JAB	01/00
APPD.	JAB	01/00

**BRUSHLESS LINEAR MOTOR  
 FEEDBACK CABLE (BFCL)  
 (LENGTHS 41 TO 80 FT.)**

PART CODE	SIZE	REV.
-	C	F
630C1591-3		
SCALE NTS	FILE NAME 630C1591-3F1.DWG	SHEET 1 OF 1