

REVISIONS				
SYM.	ZONE	DESCRIPTION	DATE	APPROVAL

AMP PLUG #745496-2 (ECK786)
AMPHEND. BACKSHELL #17-1786-2 (ECK656)

CONSOLIDATED #5737-CL
(25 COND. #22), ECXD1044

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

STRAIGHT PLUG NS31D6A-20 (MCM454)
INSERT MS20-29S (MCM464)
CLAMP 97-3057-1012 (MCM457)
BUSHING AN3055-22-12 (MCM493)
CONSOLIDATED #5737-CL
(25 COND. #22), ECXD1044

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

UNUSED WIRES: WHT/BLK/RED, WHT,
RED, GRN, DRN, BLK

4

USE 2" LENGTHS OF THICK WALL HEATSHRINK TUBING (EIW00113 - QTY 1, 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)

3

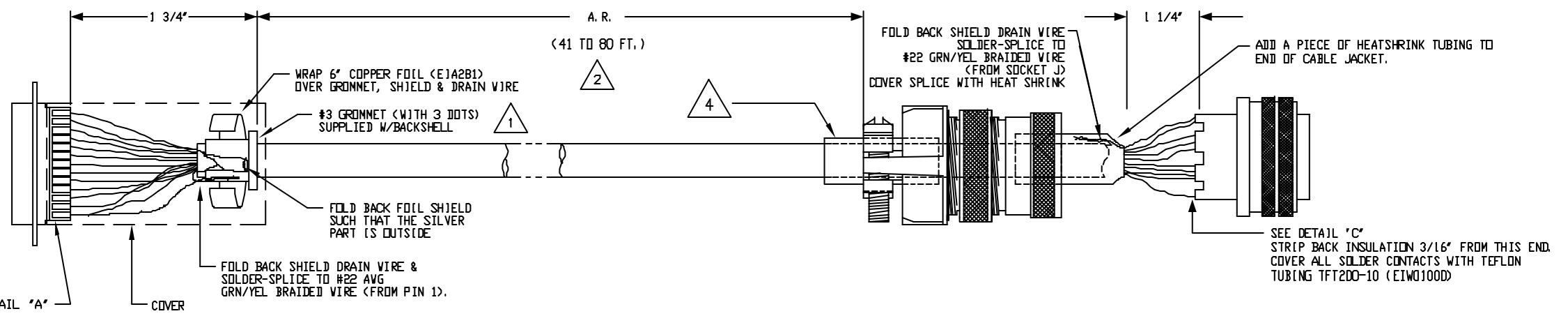
FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2

2

STARTING CABLE LENGTH = 6 in. BEYOND SPECIFIED CABLE LENGTH DO NOT EXCEED LENGTH OF 80 FT FOR THIS DESIGN

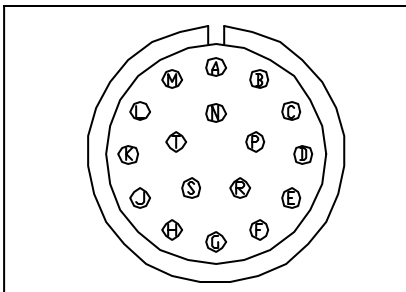
1

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



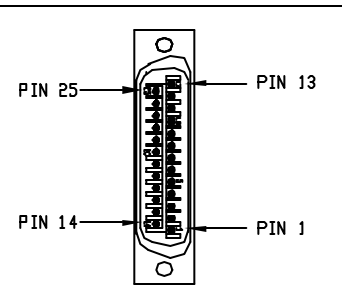
SEE DETAIL "A"

COVER



DETAIL "C"

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



DETAIL "A"

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

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ITEM NO	PART OR IDENTIFYING NO	DESCRIPTION	SPEC	MATERIAL OR NOTE	QTY REQD
LIST OF MATERIAL					
MACHINING TOLERANCE MANUAL MN-1000 APPLIES UNLESS OTHERWISE SPECIFIED		AEROTECH, INC. 101 Zeta Drive Pittsburgh, PA. 15238 (412)963-7470 TWX710-795-3125			
TOLERANCES UNLESS OTHERWISE SPECIFIED					
FRACTIONS TO DECIMALS		EXCEPT AS NOTED			
ANGLES TO 6-OR-1/32		EXCEPT AS NOTED			
OVER 6-OR-1/16		EXCEPT AS NOTED			
DRAWN	LTL	3-8-00	BFCNL-41 TO 80 (NO LIMITS) BRUSHLESS FEEDBACK CABLE (LENGTHS 41 TO 80 FEET)		
CHECKED	AGS	3-8-00	CODE IDENT. NO	SIZE	REV.
DESIGN			BFCNL	C	630C1857-3
ENGRG			SCALE	FILE NAME	630C1857-301.dwg
PROD			NTS		SHEET 1 OF 1
D. A.					
APPD	AGS	3-8-00			