

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	DRAWN
A		ADDED ECN1290 FOR USE WITH REV. B BA10/BA20/BA30 (690D1499)	8/95	WJG
B		ADDED ECN1429 & ECN1692	02-12-96	JAB
C		ADDED ECN2745	6/4/97	NTC
D		ADDED ECN4618	1/19/00	JAB

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

CONSOLIDATED #5736
 (20 COND. #22), ECX579 (STANDARD)

CONSOLIDATED #5736
 (20 COND. #22), ECX579 (STANDARD)

BA SERIES SERVO AMP

TYPICAL INTERCONNECT

NOTE: SYSTEM CONFIGURATION DETERMINES WHETHER APPLICABLE SIGNAL CONNECTS TO BA10/20 OR NOT.

P1	FLYING LEAD	WIRE	SIGNAL
1	FLYING LEAD	SHIELD	SIG SHLD
2	FLYING LEAD	RED/GRN & RED/BLK	ENC +5V
3			
4	FLYING LEAD	RED/WHT	HA
5	FLYING LEAD	WHT/RED	COS
6	FLYING LEAD	ORN/RED	COS-N
7			
8			
9			
10			
11			
12			
13			
14	FLYING LEAD	BLU & GRN/BLK	ENC COM
15	↑	GRN	LMT COM
16		BLK/WHT	HB
17		BLU/WHT	HC
18		BLU/RED	SIN
19	↓	BLK/RED	SIN-N
20	FLYING LEAD	RED	LMT +5V

FLYING LEAD	WIRE	SIGNAL
FLYING LEAD	SHIELD	SIG SHLD
FLYING LEAD	RED/GRN & RED/BLK	ENC +5V
FLYING LEAD	RED/WHT	HA
FLYING LEAD	WHT/RED	COS
FLYING LEAD	ORN/RED	COS-N
FLYING LEAD	BLU & GRN/BLK	ENC COM
↑	GRN	LMT COM
	BLK/WHT	HB
	BLU/WHT	HC
	BLU/RED	SIN
↓	BLK/RED	SIN-N
FLYING LEAD	RED	LMT +5V

FLYING LEAD	WIRE	SIGNAL
FLYING LEAD	WHT/BLK	BRK+
↑	GRN/WHT	BRK-
	BLU/BLK	MKR
	ORN/BLK	MKR-N
	WHT	CW/+ LMT
	BLK	CCW/- LMT
FLYING LEAD	ORN	HM LMT

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

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

3

2

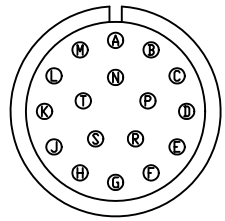
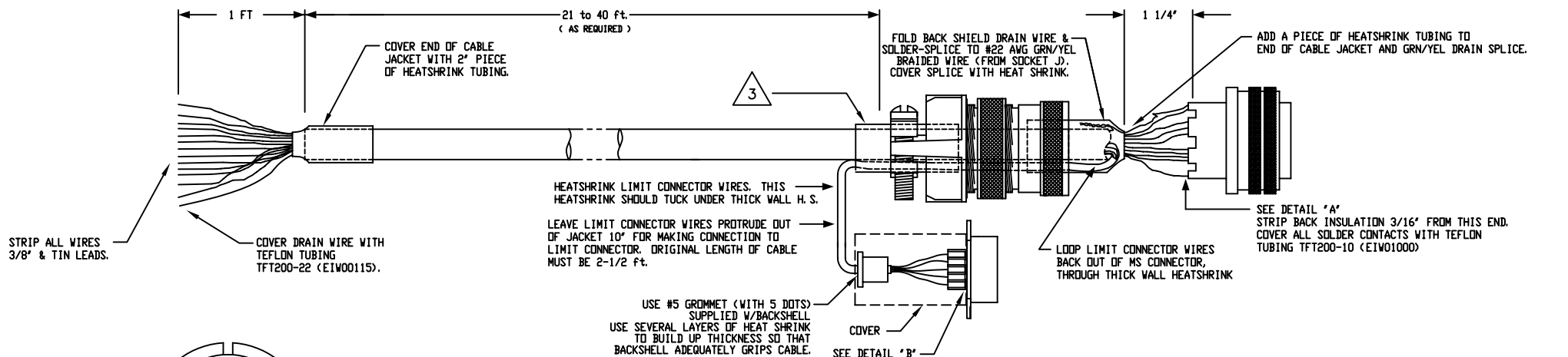
1

USE 2' LENGTHS OF THICK WALL HEATSHRINK TUBING (E1W00113 - QTY 1, E1W00112 - 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 (E1W00112) MAX INSIDE DIA = .750" (EXPANDED), MIN INSIDE DIA = .220" (RECOVERED)
 AMP # 53700-1 (E1W00113) MAX INSIDE DIA = .400" (EXPANDED), MIN INSIDE DIA = .150" (RECOVERED)

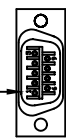
FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2

STARTING CABLE LENGTH = 6in. BEYOND SPECIFIED CABLE LENGTH



DETAIL "A"

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



DETAIL "B"

VIEWED FROM WIRE SIDE OF CONNECTOR
 AMP SOCKET #745491-2 (ECK781)

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

RMS FINISH EXCEPT AS NOTED

DRAWN	LTR	02/95
CHECKED	JAB	01/00
APPD.	JAB	01/00

BA SERIES FEEDBACK CABLE (PFC)
(CABLE LENGTHS 21 TO 40 FT.)

PART CODE	SIZE	REV.
PFC	C	D
630C1582-3		
SCALE	FILE NAME	SHEET
NTS	630C1582-3D1.dwg	1 OF 1