

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	DRAWN
A		ADDED ECN1280 FOR USE WITH REV. B BA10/BA20/BA30 (690D1499)	8/95	WJG
B		ADDED ECN1429 & ECN1692	02-12-96	WJG
C		ADDED ECN2745	6/4/97	NTC
D		ADDED ECN4618	1/19/00	JAB

BA SERIES SERVO AMP

TYPICAL INTERCONNECT

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

P1	FLYING LEAD	WIRE	WIRE	SIGNAL
1	FLYING LEAD	SHIELD	SHIELD	SIG SHLD
2	FLYING LEAD	RED/BLK	#22 YEL	ENC +5V
3				
4	FLYING LEAD	RED/WHT	RED/GRN	HA
5	FLYING LEAD	WHT/RED	WHT/RED	COS
6	FLYING LEAD	ORN/RED	WHT/ORN	COS-N
7				
8				
9				
10				
11				
12				
13				
14	FLYING LEAD	GRN/BLK	#22 WHT/BLK	ENC COM
15	↑	GRN	#22 BRN	LMT COM
16		BLK/WHT	RED/YEL	HB
17		BLU/WHT	WHT/BLK/BRN	HC
18		BLU/RED	WHT/YEL	SIN
19	↓	BLK/RED	WHT/GRN	SIN-N
20	FLYING LEAD	RED	#22 PINK	LMT +5V

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

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

CONSOLIDATED #5736 (20 COND. #22), ECK579 (STANDARD)
SIGNAL BUNDLE OF 682A1023 (ECX413) #24 AWG UNLESS OTHERWISE NOTED (OPTIONAL)

SIGNAL	WIRE	WIRE	SOCKET
ENC COM	#22 WHT/BLK	GRN/BLK	G
ENC +5V	#22 YEL	RED/BLK	H
MKR-N	WHT/BRN	ORN/BLK	F
SIG SHLD	SHIELD	SHIELD	J
BRK+	GRY	WHT/BLK	S
-	-	-	R
MKR	WHT/GRY	BLU/BLK	E
HA	RED/GRN	RED/WHT	K
BRK-	VIO	GRN/WHT	T
HC	WHT/BLK/BRN	BLU/WHT	P
SIN-N	WHT/GRN	BLK/RED	D
-	-	-	L
-	-	-	N
SIN	WHT/YEL	BLU/RED	C
HB	RED/YEL	BLK/WHT	M
COS-N	WHT/ORN	ORN/RED	B
COS	WHT/RED	WHT/RED	A

AMP SOCKET #745491-2 (ECK781)
AMPHENOL BACKSHELL #17-1724-2 (ECK1021)

SIGNAL	WIRE	WIRE	SOCKET
LMT +5V	#22 PINK	RED	1
LMT COM	#22 BRN	GRN	2
CW/+ LMT	WHT/BLU	WHT	3
HM LMT	RED/BLK	ORN	4
CCW/- LMT	WHT/VIO	BLK	5

3

2

1

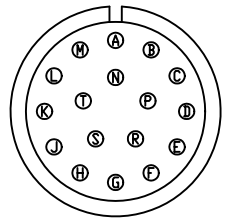
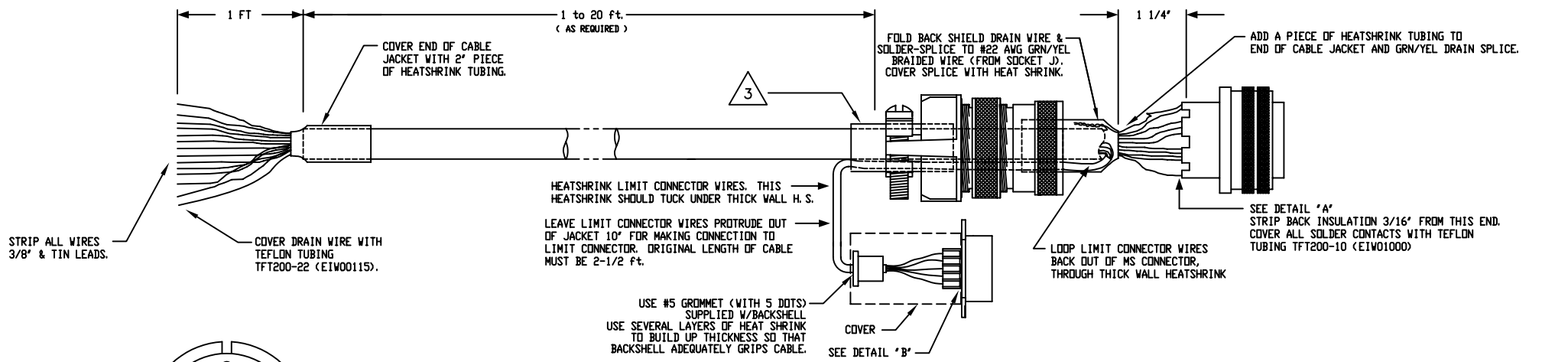
USE 2' LENGTHS OF THICK WALL HEATSHRINK TUBING (E1W00113 - QTY 1, E1W00112 - QTY 1) TO BUILD UP CABLE DIAMETER FOR PROPER STRAIN RELIEFING. STRAIN RELIEFING MUST WITHSTAND 35 LB. PULL.

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)

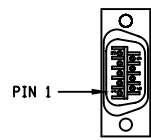
FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2

STARTING CABLE LENGTH = 6in. BEYOND SPECIFIED CABLE LENGTH



DETAIL "A"

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



DETAIL "B"

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

PROPRIETARY INFORMATION
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AEROTECH®
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 1 TO 20 FT.)

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