REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	APPROVAL

FLY	#26 WHT	CW/+ LMT
FLY	#24 BLK/ORN	COM
FLY	#26 GRY	CCW/− LMT

AMP PLUG #745496-2 (ECK786)
AMPHENOL BACKSHELL #17-1726-2 (ECK656)
CONSOLIDATED (STANDARD)
(26 COND.), ECX01182

PIN	WIRE	SIGNAL
13	BLU/BLK	BRAKE −
11	GRY/RED	HC
10	GRY/BLK	HA
9	#22 RED/BLK	SETUP (−5V)
8	WHT/YEL	ABS ENCODER DATA−
7	BRN	MKR
6	WHT/BRN	MKR−N
5	WHT/GRY	HB
4	GRN/BLK	STAGE ID
3(1/2)	#22 VIO	ENC +5V
3(2/2)	#22 WHT/VIO	ENC +5V
2	BLK	EXT SD
1	OUTER SHIELD	OUTER SHIELD
14	RED	COS
15	WHT/RED	COS−N
16	#24 RED/ORN	LMT +5V
17	ORN	SIN
18	WHT/ORN	SIN−N
19	YEL	ABS ENCODER DATA+
20(1/2)	#24 BLK/ORN	COM
20(2/2)	#24 BLK/ORN	COM
21(1/3)	#22 GRN	COM
21(2/3)	#22 WHT/GRN	COM
21(3/3)	INNER SHIELD	INNER SHIELD
22	PNK	HOME LMT
23	YEL/BLK	ENC FLT
25	BLU	BRAKE+

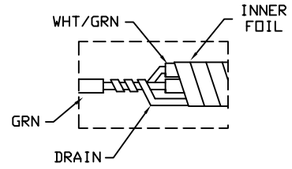
△4

△5

UNUSED WIRES (ECX01182): NONE

AMP SOCKET #745495-2 (ECK789)
AMPHENOL BACKSHELL #17-1726-2 (ECK656)
CONSOLIDATED (STANDARD)
(26 COND.), ECX01182

SIGNAL	WIRE	SOCKET
OUTER SHIELD	OUTER SHIELD	1
EXT SD	BLK	2
ENC +5V	#22 VIO	3(1/2)
ENC +5V	#22 WHT/VIO	3(2/2)
STAGE ID	GRN/BLK	4
HB	WHT/GRY	5
MKR−N	WHT/BRN	6
MKR	BRN	7
ABS ENCODER DATA−	WHT/YEL	8
SETUP (−5V)	#22 RED/BLK	9
HA	GRY/BLK	10
HC	GRY/RED	11
CW/+ LMT	WHT	12
BRAKE−	BLU/BLK	13
BRAKE+	BLU	25
CCW/− LMT	GRY	24
ENC FLT	YEL/BLK	23
HOME LMT	PNK	22
COM	#22 GRN	21(1/2)
COM	#22 WHT/GRN	21(2/2)
COM	#24 BLK/ORN	20
ABS ENCODER DATA+	YEL	19
SIN−N	WHT/ORN	18
SIN	ORN	17
LMT +5V	#24 RED/ORN	16
COS−N	WHT/RED	15
COS	RED	14
INNER SHIELD	INNER SHIELD	N.C.



DETAIL "C"

12" FROM BACKSHELL

COVER LIMIT WIRES WITH HEAT SHRINK

3"

△4 1 3/4"

(LENGTHS 1 TO 40 FEET or 1 TO 12 METERS)
(AS REQUIRED)

1 3/4"

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

GROMMET SUPPLIED W/BACKSHELL

△1

△2

△1

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

GROMMET SUPPLIED W/BACKSHELL

FOLD BACK OUTER FOIL SHIELD SUCH THAT THE SILVER PART IS OUTSIDE

ADD SHRINK TUBING OVER CABLE AND UNDER GROMMET FOR A TIGHTER FIT (APPROX. 2" LG) TYP BOTH ENDS

FOLD BACK OUTER FOIL SHIELD SUCH THAT THE SILVER PART IS OUTSIDE

SEE DETAIL 'A'

COVER

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

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

CUT BACK INNER SHIELD & INNER DRAIN WIRE. ADD HEAT SHRINK TUBING OVER INNER SHIED & DRAIN AS FAR IN CABLE AS POSSIBLE. INNER SHIELD DOES NOT CONNECT TO ANYTHING AT THIS END OF CABLE.

COVER

SEE DETAIL 'B'

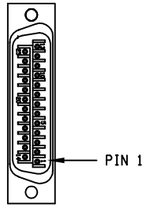
△4 UNWRAP INNER FOIL SHIELD AS FAR BACK AS POSSIBLE. SEPARATE GREEN WIRE INSULATION. SOLDER-SPLICE WHT/GRN & INNER DRAIN WIRES TO GREEN WIRE. WRAP INNER FOIL SHIELD OVER SOLDER-SPLICE. COVER INNER BUNDLE, SPLICE & INNER SHIELD WITH SHRINK TUBING AS FAR IN CABLE AS POSSIBLE. CONNECT GREEN WIRE TO PIN 21. SEE DETAIL 'C'.
NOTE: INNER SHIELD MUST NOT TOUCH OUTER SHIELD OR BACKSHELL.

△5 START WITH 18" LONGER CABLE THAN TOTAL DESIRED LENGTH
LOOP LIMIT WIRES BACK OUT OF BACKSHELL & COVER WITH HEATSHRINK

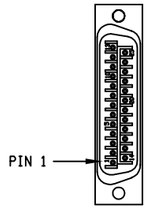
△3 FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2

△2 STARTING CABLE LENGTH = 6" LONGER THAN REQUIRED LENGTH.

△1 USE #4 GROMMET WITH 4 DOTS AS SHOWN BELOW WHICH IS SUPPLIED W/BACKSHELL



DETAIL "A"
AMP PLUG #745496-2 (ECK786)

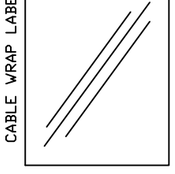


DETAIL "B"
AMP SOCKET #745495-2 (ECK789)

LABELS FOR C24791 CABLES: (2) REQUIRED, (1 AT EACH END)

CABLE WRAP LABEL: EIA00113

C24791-XX
W. O. # / 1 thru X
630C2479-1 REV(X)



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 ® 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

BRUSHLESS FEEDBACK CABLE
150 DECIMETERS (50') MAX LENGTH
CABLE: BL FB-25DU FLY-25DU-MAX150DM, USER LIMIT INTERFACE

DRAWN	TES	10/2/14
CHECKED	AGS	10/2/14
APPD.	AGS	10/2/14

PART CODE	SIZE		REV.
C24791-XX	C	630C2479-1	-

SCALE NTS | FILE NAME 630C2479-101.DWG | SHEET 1 OF 1