

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

PIN	WIRE	SIGNAL
13	BLU/BLK	BRAKE -
12	#24 WHT *	CW/+ LMT
11	GRY/RED	HC
10	GRY/BLK	HA
9	#22 RED/BLK	SETUP (-5V)
8	WHT/YEL	TACH-
7	BRN	MKR
6	WHT/BRN	MKR-N
5	WHT/GRY	HB
4	GRN/BLK	COM
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	TACH+
20(1/2)	#24 GRN *	LMT COM
20(2/2)	#24 BLK/ORN	LMT COM
21(1/3)	#22 GRN	ENC COM
21(2/3)	#22 WHT/GRN	ENC COM
21(3/3)	INNER SHIELD	INNER SHIELD
22	PINK	HM LMT
23	YEL/BLK	ENC FLT
24	#24 GRY *	CCW/- LMT
25	BLU	BRAKE+

1	#24 GRN	LMT COM
2	#24 WHT	CW/+ LMT
3	#24 GRY	CCW/- LMT

AMP SOCKET #745495-2 (ECK789)  
 AMPHENDL BACKSHELL #17-1726-2 (ECK656)

CONSOLIDATED (STANDARD)  
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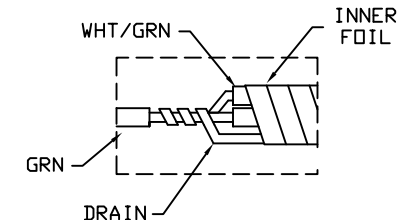
SIGNAL	WIRE	SOCKET
OUTER SHIELD	OUTER SHIELD	1
EXT SD	BLK	2
ENC +5V	#22 VIO	3(1/2)
ENC +5V	#22 WHT/VIO	3(2/2)
COM	GRN/BLK	4
HB	WHT/GRY	5
MKR-N	WHT/BRN	6
MKR	BRN	7
TACH-	WHT/YEL	8
SETUP (-5V)	#22 RED/BLK	9
HA	GRY/BLK	10
HC	GRY/RED	11
-	-	12
BRAKE-	BLU/BLK	13
BRAKE+	BLU	25
-	-	24
ENC FLT	YEL/BLK	23
HM LMT	PINK	22
ENC COM	#22 GRN	21(1/2)
ENC COM	#22 WHT/GRN	21(2/2)
LMT COM	#24 BLK/ORN	20
TACH+	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.

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	APPROVAL



DETAIL "D"

VIEWED FROM WIRE SIDE OF CONNECTOR  
 3 PIN CONNECTOR (EIK01148)  
 PIN CONTACTS (EIK01134)



DETAIL "C"

LABELS FOR  
 C165016 CABLES:  
 (2) REQUIRED,  
 (1 AT EACH END)

CABLE WRAP LABEL: EIA00113

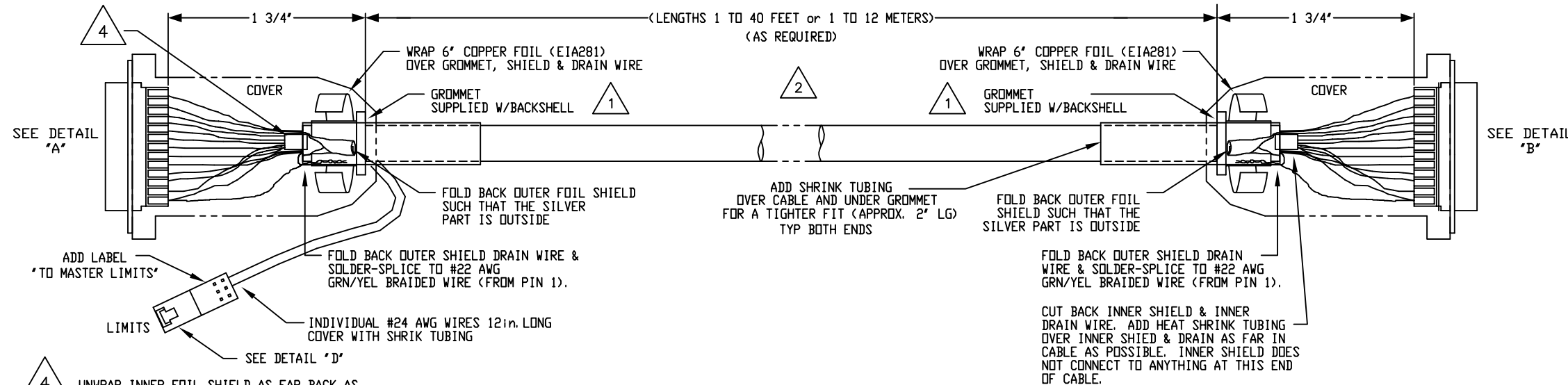
C165016-XX  
 W. O. # / 1 thru X  
 630C1650-16 REV(-)

4

UNUSED WIRES (ECX01182): GRY, WHT

INDIVIDUAL #24 AWG WIRES 12in. LONG  
 COVER WITH SHRIK TUBING  
 NOTE: "\*" INDICATES INDIVIDUAL  
 WIRE CONNECTION

3 PIN CONNECTOR (EIK01148)  
 PIN CONTACTS (EIK01134)



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.

3

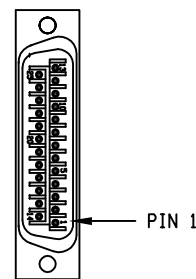
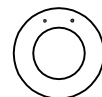
FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2

2

STARTING CABLE LENGTH = 6" LONGER THAN REQUIRED LENGTH.

1

USE #2 GROMMET WITH 2 DOTS AS SHOWN BELOW WHICH IS SUPPLIED W/BACKSHELL



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



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

PART CODE:	C165016-XX	C165016-10 TO 120	LENGTHS 1 TO 12 MTR
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TOLERANCES ON FRACTIONS DECIMALS ANGLES 0 TO 6 ± 1/32 .XX ± .01 ± 0-30' OVER 6 ± 1/16 .XXX ± .005	BRUSHLESS FEEDBACK CABLE "GANTRY SLAVE"		
RMS FINISH <input checked="" type="checkbox"/> EXCEPT AS NOTED	CABLE: BL FB-25DU 3M-25DU-MAX120DM		
DRAWN 7-25-07 LTL	PART CODE	SIZE	REV.
CHECKED 7-25-07 EJB	SEE ABOVE	C	630C1650-16
APPD. 7-25-07 EJB	SCALE NTS	FILE NAME 630C1650-1601.DWG	SHEET 1 OF 1