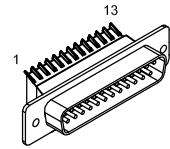


REV.	DESCRIPTION	DATE	DRAWN
A	ADDED ECO 2363	10/5/2016	JFM
B	ADDED ECO 2415	0/28/2016	JFM

**CONTROL END**



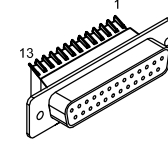
25D MALE, ECK00786  
BACKSHELL: SEE TERMINATION CHART

PIN	WIRE	SIGNAL
13	GRN/WHT	BRAKE -
12	WHT	CW/+ LMT
11	BLU/WHT	HC
10	RED/WHT	HA
9	-	-
8	-	-
7	BLU/BLK	MKR
6	ORN/BLK	MKR-N
5	BLK/WHT	HB
4	-	-
3	BLK/WHT/RED RED/BLK/WHT WHT/BLK/RED RED/BLK	ENC +5V
2	RED/GRN	TH
1	-	-
14	WHT/RED	COS
15	ORN/RED	COS-N
16	RED	LMT +5V
17	BLU/RED	SIN
18	BLK/RED	SIN-N
19	-	-
20	GRN	LMT COM
21	GRN/BLK BLU GRN/BLK/WHT ORN/GRN	ENC COM
22	ORN	HM LMT-N
23	-	-
24	BLK	CCW/- LMT
25	WHT/BLK	BRAKE+

ECX01044, 25 COND, #22  
UNUSED WIRES: NONE

SIGNAL	WIRE	SOCKET
-	-	1
TH	RED/GRN	2
ENC +5V	RED/BLK WHT/BLK/RED RED/BLK/WHT BLK/WHT/RED	3
-	-	4
HB	BLK/WHT	5
MKR-N	ORN/BLK	6
MKR	BLU/BLK	7
-	-	8
-	-	9
HA	RED/WHT	10
HC	BLU/WHT	11
CW/+ LMT	WHT	12
BRAKE-	GRN/WHT	13
BRAKE+	WHT/BLK	25
CCW/- LMT	BLK	24
-	-	23
HM LMT	ORN	22
ENC COM	ORN/GRN GRN/BLK/WHT BLU GRN/BLK	21
LMT COM	GRN	20
-	-	19
SIN-N	BLK/RED	18
SIN	BLU/RED	17
LMT +5V	RED	16
COS-N	ORN/RED	15
COS	WHT/RED	14

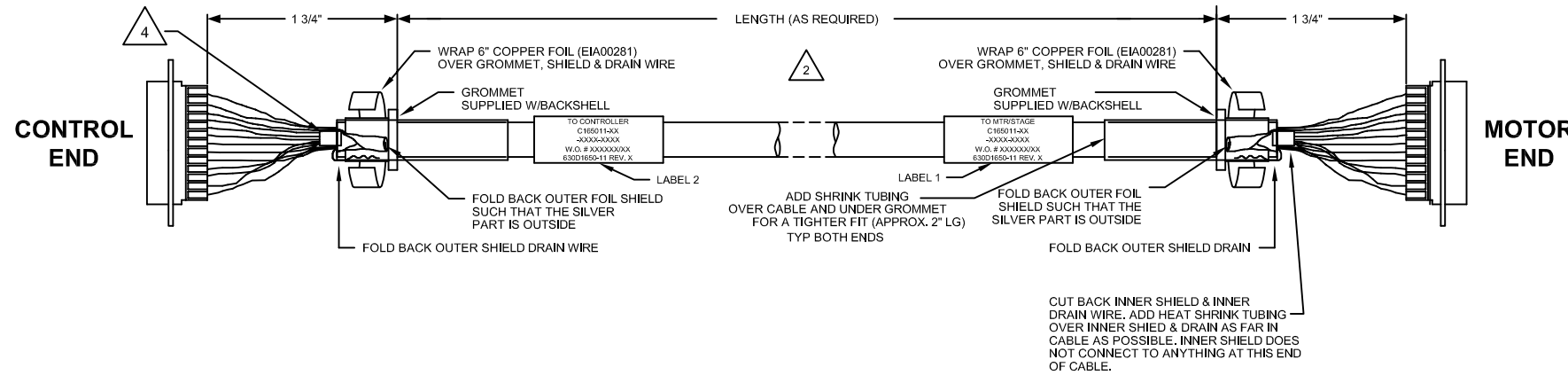
**MOTOR END**



FEMALE 25 PIN D-STYLE, ECK00789  
BACKSHELL: SEE TERMINATION CHART

**TERMINATION CHART**

<p><b>25D</b> STRAIGHT BACKSHELL, ECK00656</p>	<p><b>25DT</b> STRAIGHT BACKSHELL, ECK00656 TWO THUMBSCREWS, ECK01247</p>
<p><b>25D45L</b> 45 DEGREE BACKSHELL, ECK01070 LEFT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>	<p><b>25D45R</b> 45 DEGREE BACKSHELL, ECK01070 RIGHT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>
<p><b>25D90L</b> 90 DEGREE BACKSHELL, ECK01370 LEFT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>	<p><b>25D90R</b> 90 DEGREE BACKSHELL, ECK01370 RIGHT HANDED VIEW LOOKING INTO CONTACT SIDE OF CABLE CONNECTOR</p>

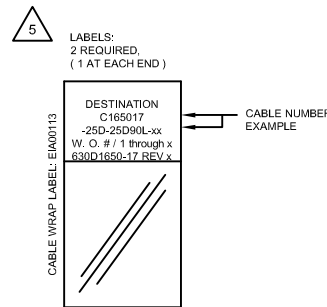


**CONFIGURED CABLE PROCEDURE:**

THE PURPOSE OF THIS DRAWING IS TO DEFINE VARIOUS BACKSHELL AND SCREWLOCK TYPES AS REQUIRED BY THE SHOP TRAVELLER.

- LOCATE THE SHOP TRAVELLER FOR CABLE TO BE MANUFACTURED.
- USING SHOP TRAVELLER AND TERMINATION CHART AT RIGHT:
  - DETERMINE "CONTROL END" TERMINATION.
  - DETERMINE "MOTOR END" TERMINATION.
- USING THE ABOVE INFORMATION, MANUFACTURE CABLE WITH APPROPRIATE TERMINATIONS.
- LABEL CABLE WITH NEW CONFIGURED PART NUMBER PER NOTE 5, FOLLOWING THE "CONFIGURED PART NUMBER DEFINITION" SHOWN AT FAR RIGHT.

- 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 FOIL WITH SHRINK TUBING AS FAR IN CABLE AS POSSIBLE. CONNECT GREEN WIRE TO PIN 21.  
NOTE: INNER SHIELD MUST NOT TOUCH OUTER SHIELD OR BACKSHELL.
- FOR CRIMP TOOL USE AMP HANDLE ASSY 58074-1 WITH AMP HEAD ASSY 58063-2
- STARTING CABLE LENGTH = 6 in. BEYOND SPECIFIED LENGTH OF CABLE DO NOT EXCEED LENGTH OF 40 FT FOR THIS DESIGN
- FOR ECX01044 USE #3 DOT GROMMET WHICH IS SUPPLIED W/BACKSHELL



**LENGTH (1)**  
xx - WHERE xx = LENGTH IN DECIMETERS

- MOTOR END (1)**
- 25D - STRAIGHT BACKSHELL
  - 25DT - STRAIGHT BACKSHELL w/THUMBSCREWS
  - 25D45L - 45 DEGREE BACKSHELL - LEFT HAND
  - 25D45R - 45 DEGREE BACKSHELL - RIGHT HAND
  - 25D90L - 90 DEGREE BACKSHELL - LEFT HAND
  - 25D90R - 90 DEGREE BACKSHELL - RIGHT HAND

- CONTROL END (1)**
- 25D - STRAIGHT BACKSHELL
  - 25DT - STRAIGHT BACKSHELL w/THUMBSCREWS
  - 25D45L - 45 DEGREE BACKSHELL - LEFT HAND
  - 25D45R - 45 DEGREE BACKSHELL - RIGHT HAND
  - 25D90L - 90 DEGREE BACKSHELL - LEFT HAND
  - 25D90R - 90 DEGREE BACKSHELL - RIGHT HAND

**BASE PART (1)**

**CONFIGURED PART NUMBER** C165017 -25D -25D90L -50

**CONFIGURED PART NUMBER DEFINITION**  
NUMBER SHOWN FOR EXAMPLE ONLY

<p>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.</p>		<p>AEROTECH, INC. 101 Zeta Drive Pittsburgh, PA, 15238 (412)963-7470 www.aerotech.com</p>	
<p><b>CONFIGURED BRUSHLESS FEEDBACK CABLE</b> CABLE: BL FB-25D-25D-MAX290DM</p>			
<p>TOLERANCES ON FRACTIONS DECIMALS ANGLES 0 TO 6 ±1/32 .XX ±01 ° 0-30' OVER 6 ± 1/16 .XXX ±.005</p>		<p>RMS FINISH  EXCEPT AS NOTED</p>	
<p>DRAWN 6/25/2013 RWR</p>	<p>CHECKED 6/25/2013 EJB</p>	<p>APPD. 6/25/2013 EJB</p>	<p>PART CODE <b>C165017</b></p>
<p>SCALE NTS</p>	<p>FILE NAME 630D1650-17.DWG</p>	<p>SIZE <b>D</b></p>	<p>SHEET <b>1 OF 1</b></p>
<p>REV. <b>B</b></p>		<p>REV. <b>B</b></p>	