

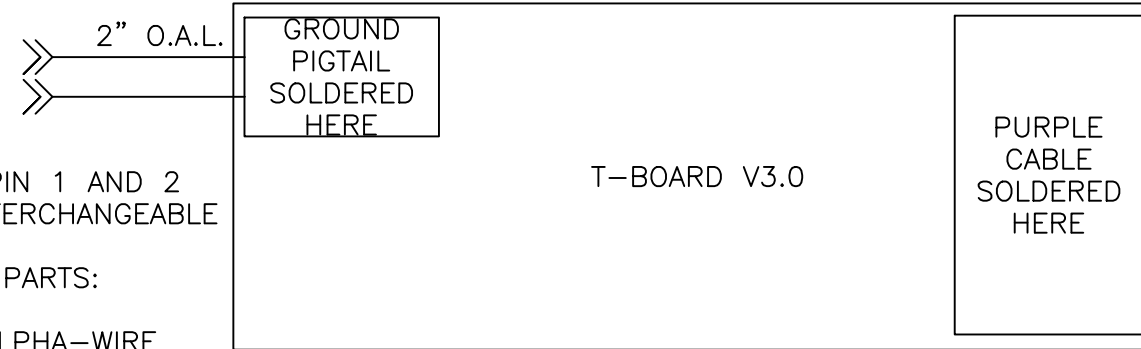
NOTES:

1. LABEL CABLE AT EACH END WITH SEQUENTIAL SERIAL NUMBERS, FORMATTED: "FST-V3.1-XX", STARTING WITH "FST-V3.1-09"
2. ALL PARTS TO BE SUPPLIED BY BNL
3. CABLES TO BE SOLDERED TO T-BOARD AS DESCRIBED IN VENDOR COMMUNICATIONS.
4. QUANTITY: 40 COMPLETED ASSEMBLIES.
5. PURPLE CABLE LENGTHS: 20 EACH OF LENGTHS 64" AND 76" ±1", MEASURED FROM END OF D-SUB TO BOTTOM SIDE OF PCB
6. ALL WIRES TO BE SOLDERED FROM "TOP" SIDE OF BOARD, REFERENCE CONNECTOR P2 "INNER" CONNECTOR FACING UP.

REVISIONS						
REV	ZONE	ECN NO.	DESCRIPTION	BY	DATE	CKR APP

TO T-BOARD

P1



NOTE: PIN 1 AND 2 ARE INTERCHANGEABLE

PIGTAIL PARTS:

WIRE: ALPHA-WIRE
2845/19 GR005

CONNECTOR RECEPT:
TE CONNECTIVITY
1445022-2

CONNECTOR SOCKET:
TE CONNECTIVITY
794606-3

PINS SOLDERED TO 26AWG SIGNAL
WIRES: Mill-Max #
3050-0-01-15-00-00-03-0

PINS SOLDERED TO 22AWG POWER
WIRES: TBD

EACH PIN TO BE INDIVIDUALLY SLEEVED
IN HEAT SHRINK

3:1 ADHESIVE LINED HEAT SHRINK TO
BUNDLE/SECURE WIRES IN TWO
GROUPS:

GROUP 1: OUT1 THROUGH OUT7, SUB1,
VDD, GND, DRAIN.

GROUP 2: OUT0, TRG, CLK, SUB0, SCK,
SDA, SENSE LINES, VSS.

CONNECT: W44 SUB1 +	BLACK	31
CONNECT: W46 SUB1 -	RED	32
CONNECT: W18 OUT7 +	BLACK	2
CONNECT: W19 OUT7 -	WHITE	17
CONNECT: W14 OUT6 +	BLACK	3
CONNECT: W15 OUT6 -	GREEN	18
CONNECT: W10 OUT5 +	BLACK	4
CONNECT: W11 OUT5 -	BLUE	19
CONNECT: W7 OUT4 +	BLACK	5
CONNECT: W9 OUT4 -	BROWN	20
CONNECT: W61 OUT3 +	BLACK	6
CONNECT: W62 OUT3 -	YELLOW	21
CONNECT: W58 OUT2 +	BLACK	7
CONNECT: W57 OUT2 -	ORANGE	22
CONNECT: W54 OUT1 +	RED	8
CONNECT: W53 OUT1 -	GREEN	23
CONNECT: W52 OUT0 +	RED	9
CONNECT: W50 OUT0 -	WHITE	24
CONNECT: W20 TRG +	RED	10
CONNECT: W22 TRG -	BLUE	25
CONNECT: W24 CLK +	RED	11
CONNECT: W26 CLK -	YELLOW	26
CONNECT: W3 SUB0 +	RED	12
CONNECT: W1 SUB0 -	BROWN	27
CONNECT: W16 VSS_SENSE	RED	13
CONNECT: W17 GND_SENSE	ORANGE	28
CONNECT: W12 VDD_SENSE	GREEN	14
CONNECT: W13 GND_SENSE	BLUE	29
CONNECT: W40 SCK -	GREEN	37
CONNECT: W37 SCK +	WHITE	38
CONNECT: W36 SDA -	GREEN	39
CONNECT: W41 SDA +	BROWN	40
CONNECT: W5 VDD	RED	15
CONNECT: W4 GND	BLACK	30
CONNECT: W6 VSS	WHITE	43
CONNECT: W8 VSS	GREEN	44
CONNECT: W2 GND	DRAIN	41

D-SUB CONNECTOR: MOLEX 173113-0101

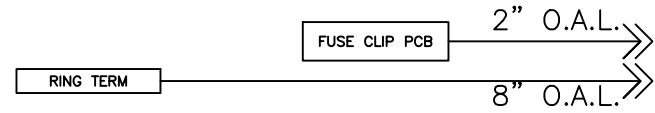
D-SUB CONTACTS: MOLEX 173112-0223

D-SUB BACKSHELL: AMPHENOL FCI
MPN: 8655MH2511LF

			BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973		
DRAWN BY		M. CAPOTOSTO	5/3/2021		TITLE: STAR_FST STAR FST INNER CABLE ASSEMBLY FOR T-BOARD V3.1 PRODUCTION
DESIGN APPROVAL					
CHECKED BY					
ENGINEER APPROVAL					
SUPERVISOR APPROVAL					SIZE: B DRAWING NUMBER: FST_T-BOARD_ASSEMBLY_DRAWING_REV_A REV. A
Q.A. APPROVAL					
APPVL APPVL					
APPVL APPVL					Q.A. CATAGORY: NA
EXPERIMENT				SCALE: 1/X	WEIGHT: NA
				SHEET 1 OF 2	

NOTES:

1. ALL PARTS TO BE SUPPLIED BY BNL
2. QUANTITIES AS LISTED BELOW
3. WIRE AND FUSE CLIP TO BE SOLDERED TO "FUSE CLIP PCB" FROM OPPOSITE SIDES



QUANTITY: 10

NOTE: PIN 1 AND 2 ARE INTERCHANGEABLE

GROUNDING CABLE PARTS:

FUSE CLIP: LITTELFUSE
01220087Z

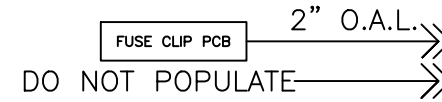
RING TERMINAL: MOLEX
19164-0008 OR EQUIVALENT

WIRE: ALPHA-WIRE 2845/19
GR005

CONNECTOR PLUG:
TE CONNECTIVITY 1445049-2

CONNECTOR FEMALE PIN: TE
CONNECTIVITY 1-794612-2

REVISIONS							
REV	ZONE	ECN NO.	DESCRIPTION	BY	DATE	CKR	APP



QUANTITY: 50

NOTE: PIN 1 AND 2 ARE INTERCHANGEABLE

GROUNDING CABLE PARTS:



FUSE CLIP: LITTELFUSE
01220087Z

RING TERMINAL: MOLEX
19164-0008 OR EQUIVALENT

WIRE: ALPHA-WIRE 2845/19
GR005

CONNECTOR PLUG:
TE CONNECTIVITY 1445049-2

CONNECTOR FEMALE PIN: TE
CONNECTIVITY 1-794612-2

		BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973			
		TITLE: STAR_FST STAR FST INNER CABLE ASSEMBLY FOR T-BOARD V3.1 PRODUCTION			
EXPERIMENT 	DRAWN BY	M.CAPOTOSTO	5/3/2021	SIZE: B DRAWING NUMBER: FST_T-BOARD_ASSEMBLY_DRAWING_REV_A	REV. A
	DESIGN APPROVAL				
	CHECKED BY				
	ENGINEER APPROVAL			Q.A. CATEGORY: NA SCALE: 1/X WEIGHT: NA SHEET 2 OF 2	
	SUPERVISOR APPROVAL				
Q.A. APPROVAL					
APPVL					
APPVL					