

Diffuser

MOL = white molex connectors, MOLC = James' clear molex connectors

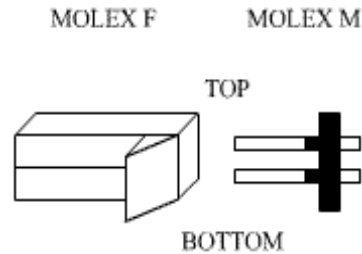
ACM to TR = 1.3m, TR to OPTO = .8m

DIFFUSER/UTILITY POWER SUPPLY

Cable A, 3 pair 18 gauge, ~1ft, powersupply to cable C

Testing: Checked for shorts

	D25M	Wire color	D9F
20V diffuser	1	White	1
20V GND	14	Black	6
5V diffuser ctrl	3	Green	2
5V GND	16	Black	7
Supply Earth GND	25	Shield	5



Cable C, 3 pair 18 gauge, ~38ft, cable A to TR, diffuser

Testing: Checked for shorts

	D9M	Wire color	MOL2F
20V diffuser	1	White	Pair 1 top
20V GND	6	Black	Pair 1 bot
5V diffuser ctrl	2	Green	Pair 2 top
5V GND	7	Black	Pair 2 bot
48V TR	MOL2F top	Red	Pair 3 top
48V TR GND	MOL2F bot	Black	Pair 3 bot
Supply Earth GND	5	Shield	

Cable B, 3 pair 22 gauge, ~1ft, powersupply to cable D

Testing: Checked for shorts

	D25M	Wire color	D9M
Utility 15V	5	White	1
Utility 15V GND	18	Black	6
Utility -15V	6	Green	2
Utility -15V GND	19	Black	7
Utility 5V	7	Red	3
Utility 5V GND	20	Black	8
Supply Earth GND	25	Shield	5

Cable D, 3 pair 22 gauge, ~40ft, cable B to utah

Testing: Checked for shorts

	D9F	Wire color	MOL2F
Utility 15V	1	White	Pair 1 top
Utility 15V GND	6	Black	Pair 1 bot
Utility -15V	2	Green	Pair 2 top
Utility -15V GND	7	Black	Pair 2 bot
Utility 5V	3	Red	Pair 3 top
Utility 5V GND	8	Black	Pair 3 bot
Supply Earth GND	5	Braid	X

Pdiodes

PHOTODIODE POWER SUPPLY

Cable A, 3 pair 22 gauge, ~36ft, powersupply to utah

Testing: Checked for shorts

	D25 M	Wire color	MOL2F
9Vvar fast pdiode	1	Red	Pair 1 top
9Vvar GND	14	Black	Pair 1
15V 9327 disc	3	Green	Pair 2 top
15V GND	16	Black	Pair 2
21V laser energy	5	White	Pair 3 top
21V GND	18	Black	Pair 3
-21V laser energy	X		
-21V GND	X		
Supply Earth GND	25	Shield	

APDs

APD Power Supply

Cable A, 6 pair 22 gauge, ~1ft, powersupply to cable B

Testing: Checked for shorts, USED

	D25M	Wire color	D15F
18V	1	Black	1
18V GND	14	Purple	9
-18V	3	Red	2
-18V GND	16	White	10
12V	5	Green	3
12V GND	18	Yellow	11
-13V	7	Blue	4
-13V GND	20	Brown	12
-32V	MOL2C?	Red external	5
-32V GND	MOL2C?	Black extern	13
Supply Earth GND	25	white/black	8

Cable B, 6 pair 22 gauge, ~40ft cable, A to APDs

Testing: Checked for shorts

	D15M	Wire color	D15M
18V	1	Brown	1
18V GND	9	Black	9
-18V	2	Yellow	2
-18V GND	10	Black	10
12V	3	Blue	3
12V GND	11	Black	11
-13V	4	Green	4
-13V GND	12	Black	12
-32V	5 (red on white	White	5
-32V GND	13	Black	13
Supply Earth GND	8 to shield	Shield	X

Booster

Booster Power Supply

Cable A, 6 pair 22 gauge, ~40ft, from powersupply to boosterboard

Testing: Checked for shorts, used in lab

? D25 1 ohm between pin 2 and 5 when plugged into booster

!! Inside power supply ? and ? GNDs are linked

	D25M	Wire color	IDC ?
+8V ECL2	1	Yellow	
-8V ECL2	6	White	
GND ECL2	20, 7	Black, Black	
+18V CLOCK	10	?	
GND CLOCK	2	Black	
+8V CAMAC	3	Green	
-8V CAMAC	8	Black	
GND CAMAC	5	Black	
+8V ECL1	14	Blue	
-8V ECL1	4	Brown	
GND ECL1	9	Red	
Supply Earth GND	connector	Shield	