



NATIONAL OPTICAL  
ASTRONOMY  
OBSERVATORY

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**MONSOON**  
**CABLE ASSEMBLIES**  
**Power (W1), Sense (W2)**

**Dwg No.: MNSN-EL-05-0004 Rev: B**

**Next Assembly:**  
**(FHiRE) MNSN-EL-10-0007**

LTR	DESCRIPTION	ECR	DATE	BY	APPRVD
--	INITIAL		25-Jul-05	DMD	
A	move interlock, add fan power		1/24/2006	dmd	
B	change format of cable assembly document for clarity. Correct part numbers of cable ends.		2/27/2006	dms	

**NOTES**

CABLE ASSEMBLIES  
Power (W1), Sense (W2)

DWG #: MNSN-EL-05-0004  
3/1/2006

1. Components shall only be crossed to equivalent or improved performance parts.
2. Reference Drawings:  
MNSN-EL-05-0003, Wiring Diag., MONSOON Power Supply Chassis  
MNSN-EL-05-0005, Wiring Diag., MONSOON DC Power Distribution (FHiRE)
3. Connectors are to be assembled per manufacturers specifications.

**CABLE ASSEMBLY**

**FUNCTION: Power Supply Feed**

**Unit: N/A**

**Device: W1**

**BILL OF MATERIALS**

ITEM	QTY	PART NUMBER	Manufacturer	Description
1	15 ft	1486A	Belden	Cable, 16 awg 12 tw pr shldd
2	1	G6A18-22SNE	Burndy	Con, circ 22 pos socket
3	22	RC16M23D28	Burndy	Contacts, socket 16 awg
4	1	G6A18-22PNE	Burndy	Con, circ 22 pos pins
5	22	RM16M23D28	Burndy	Contacts, PIN 16 awg
5	2	MS3057-12A	ITT Cannon	Clamp, cable

Notes:

**HOOK UP**

LINE	Supply P1-SKT	INST Chassis P1-SKT	COLOR	SIGNAL NAME
1	A	A	Cable Drain	Cable Shield
2	B	B	Wht # Eleven	Power Interlock
3	C	C	Blk #TEN	Fan Rtn
4	D	D	Wht #TEN	+Fan
5	E	E	Blk #NINE	+5V Rtn
6	F	F	Wht #NINE	+5V Digital
7	G	G	Blk #EIGHT	+5V Rtn
8	H	H	Wht #EIGHT	+5V Digital
9	J	J	Blk #SEVEN	+35V Rtn
10	K	K	Wht #SEVEN	+35V Analog (HV)
11	L	L	Blk #Six	-15V Analog
12	M	M	Wht #Six	-15V Rtn
13	N	N	Blk #FIVE	+15V Rtn
14	P	P	Wht #FIVE	+15V Analog
15	R	R	Blk #FOUR	-5V Analog
16	S	S	Wht #FOUR	-5V Rtn
17	T	T	Blk #Three	-5V Analog
18	U	U	Wht #Three	-5V Rtn
19	V	V	Blk #TWO	+5V Rtn
20	W	W	Wht #TWO	+5V Analog
21	X	X	Blk #ONE	+5V Rtn
22	Y	Y	Wht #ONE	+5V Analog

**CABLE ASSEMBLY**

**FUNCTION: Power Sense**

**Unit: N/A**

**Device: W2**

**BILL OF MATERIALS**

ITEM	QTY	PART NUMBER	Manufacturer	Description
1	15 ft	8167	Belden	Cable, 24 awg 7 tw pr shldd
2	1	KPSE06A14-19S	ITT Cannon	Con, MS circ 19 pos socket
3	1	KPSE06A14-19P	ITT Cannon	Con, MS circ 19 pos pin
4	2	M85049/41-8A	ITT Cannon	Clamp, cable

Notes:

**HOOK UP**

LINE	Supply P2-SKT	INST Chassis P2-SKT	COLOR	SIGNAL NAME
1	A	A	Drain & Pr7	Shield (cable)
2	B	B	Blk Pr7	Power Interlock
3	C	C	Org Pr7	Spare
4	D	D	Pr 6	Shield (5V Digital)
5	E	E	Blk Pr6	Sense 5V Dig Rtn
6	F	F	Brn Pr6	+ Sense (+5V Digital)
7	G	G	Pr 5	Shield (HV)
8	H	H	Blk Pr5	Sense HV Rtn
9	J	J	Yel Pr5	+ Sense (HV) (+35V)
10	K	K	Blk Pr4	- Sense (-15V)
11	L	L	Blu Pr4	- Sense -15V Rtn
12	M	M	Pr 3 & 4	+/- Sense Shield (15V)
13	N	N	Blk Pr3	+ Sense +15V Rtn
14	P	P	Grn Pr3	+ Sense (+15V)
15	R	R	Blk Pr2	- Sense (-5VA)
16	S	S	Wht Pr2	- Sense -5VA Rtn
17	T	T	Pr1 & 2	+/- Sense Shield (5V) analog
18	U	U	Blk Pr1	+ Sense +5VA Rtn
19	V	V	Red Pr1	+ Sense (+5VA)