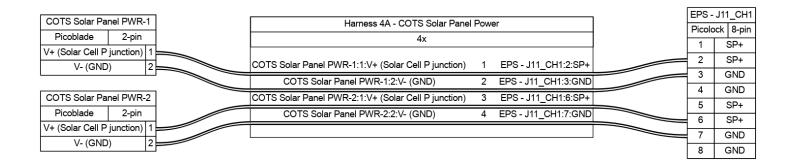
		Harnes	s 1 - MP	I 12V Power			
OBC - J4 (MF	Pl Power)	4x		200.0 mm	EPS -	J10 VD	3 OBC[0]
Picoblade	4-pin	OBC - J4 (MPI Power):1:12V_MPI	1:VT	EPS - J10 VD3_OBC[0]:4:VD3_OBC(0)	Mic	rolock	4-pin
12V_MPI	1	OBC - J4 (MPI Power):2:12V_MPI	2:BK	EPS - J10 VD3_OBC[0]:3:VD3_OBC(0)	4		OBC(0)
12V_MPI GND	2	OBC - J4 (MPI Power):3:GND	3:OG	EPS - J10 VD3_OBC[0]:2:GND	3		OBC(0)
GND	4	OBC - J4 (MPI Power):4:GND	4:YE	EPS - J10 VD3_OBC[0]:1:GND	1		SND

		Harness	2 - B	oom Burnwire Power]		
Burnwire P		5x		300.0 mm		FPS	S - VD3_OBC[1]
6-pir	1						8-pin
VDC	1	Burnwire PCB - J2:1:VDC	1	EPS - VD3_OBC[1]:1:VD3_OBC(1)		<u> </u>	VD3 OBC(1)
VDC	2	Burnwire PCB - J2:2:VDC	2	EPS - VD3_OBC[1]:2:VD3_OBC(1)		<u> </u>	VD3_OBC(1)
VDC	3	Burnwire PCB - J2:4:GND	3	EPS - VD3_OBC[1]:3:GND]	GND
GND	4	Burnwire PCB - J2:5:GND	4	EPS - VD3_OBC[1]:5:GND		<u>ئ</u>	GND
GND	5	Burnwire PCB - J2:6:GND	5	EPS - VD3_OBC[1]:7:GND		4	
GND	6	Barriwite 1 GB 62.6.6142	ightharpoonup	210 120_020[1]012		5	GND
			—			6	I2C_SCL
						7	GND
						8	I2C_SDA

	Harness 3 - Bo	om E	Burn Wire to OBC	
OBC - J8 (BW)	4x		300.0 mm	Burnwire PCB - J1
Picoblade 4-pin	OBC - J8 (BW):1:BOOM_CTRL_1	1	Burnwire PCB - J1:3:BOOM_CTRL_1	4-pin
BOOM_CTRL_1 1	OBC - J8 (BW):2:GND	2	Burnwire PCB - J1:1:GND	1 GND 2 GND
BOOM CTRL 2 3	OBC - J8 (BW):3:BOOM_CTRL_2	3	Burnwire PCB - J1:4:BOOM_CTRL_2	3 BOOM CTRL 1
GND 4	OBC - J8 (BW):4:GND	4	Burnwire PCB - J1:2:GND	4 BOOM_CTRL_2

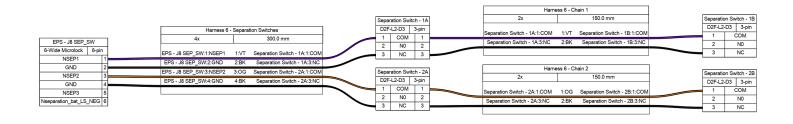


COTS Solar Panel PWR-1	Harrana AB, COTS Salar Banal	Davies	1	EPS -	J11_CH2
	Harness 4B - COTS Solar Panel	Power		Picolo	ock 8-pin
Picoblade 2-pin	4x			1	SP+
V+ (Solar Cell P junction) 1 V- (GND) 2	COTS Solar Panel PWR-1:1:V+ (Solar Cell P junction)	1 EPS - J11 CH2:2:SP+		2	SP+
V- (GND)	COTS Solar Panel PWR-1:2:V- (GND)	2 EPS - J11_CH2:3:GND		3	GND
COTS Solar Panel PWR-2	COTS Solar Panel PWR-2:1:V+ (Solar Cell P junction)	3 EPS - J11_CH2:6:SP+		5	GND SP+
Picoblade 2-pin	COTS Solar Panel PWR-2:2:V- (GND)	4 EPS - J11_CH2:7:GND		6	SP+
V+ (Solar Cell P junction) 1				7	GND
V- (GND) 2				8	GND

COTS Solar Panel PWR-1				EPS	S - J303
CO15 Solar Pariel PVVR-1	Harness 4C - COTS Solar Panel Po	ower		Picolo	ock 8-pin
Picoblade 2-pin	4x			4	
V+ (Solar Cell P junction) 1				1	SP+
V- (GND) 2	COTS Solar Panel PWR-1:1:V+ (Solar Cell P junction)	1	EPS - J303:2:SP+	2	SP+
1 (31.3)	COTS Solar Panel PWR-1:2:V- (GND)	2	EPS - J303:3:GND	= 3	GND
	COTS Solar Panel PWR-1:2:V- (GND)		EPS - J303:3:GND	4	GND
COTS Solar Panel PWR-2	COTS Solar Panel PWR-2:1:V+ (Solar Cell P junction)	3	EPS - J303:6:SP+	F	
Picoblade 2-pin	COTS Solar Panel PWR-2:2:V- (GND)	4	EPS - J303:7:GND	5	SP+
	COTO CONTITUTO TO VINCE.E.V (CIND)		Li 0 0000.7.014B	= 6	SP+
V+ (Solar Cell P junction) 1				7	GND
V- (GND) 2				-	
				8	GND

COTS Solar Panel PWR-1	Harman AD, COTS Salar Banal D			ı	EP:	S - J403
CO 13 Solai Fallei FWIN-1	Harness 4D - COTS Solar Panel Po	ower			Picol	ock 8-pin
Picoblade 2-pin	4x					
V+ (Solar Cell P junction) 1					1	SP+
V- (GND) 2	COTS Solar Panel PWR-1:1:V+ (Solar Cell P junction)	1	EPS - J403:2:SP+		2	SP+
V (S(13)	007001 D 18000100	_	550 1400 0 OND		3	GND
	COTS Solar Panel PWR-1:2:V- (GND)	2	EPS - J403:3:GND			GND
COTS Solar Panel PWR-2	COTS Solar Panel PWR-2:1:V+ (Solar Cell P junction)	3	EPS - J403:6:SP+		4	
Picoblade 2-pin	COTS Solar Panel PWR-2:2:V- (GND)	4	EPS - J403:7:GND		5	SP+
	(0.13)				∮ 6	SP+
V+ (Solar Cell P junction) 1					7	GND
V- (GND) 2					_	OND
					8	GND

			Harness 5 -	EPS to P	BP .		
		•	15	Σx		EPS - PBP - C	Connector 1
EPS - J2 (Batte	• /					Picolock	8-pin
Microlock 15-			EPS - J2 (Battery):1:HEATERS_ON	1:VT	EPS - PBP - Connector 1:1	1	
HEATERS_ON	1		EPS - J2 (Battery):2:VBAT_NEG	2:BK	EPS - PBP - Connector 1:2	2	
VBAT_NEG	2		EPS - J2 (Battery):3:TH_R_BATT(1)	3:OG	EPS - PBP - Connector 1:3	3	
TH_R_BATT(1)	3		EPS - J2 (Battery):4:TH_R_BATT(0)	4:YE	EPS - PBP - Connector 1:4	4	
TH_R_BATT(0)	4		EPS - J2 (Battery):5:VBAT_NEG	5:GN	EPS - PBP - Connector 1:5	5	
VBAT_NEG	5		EPS - J2 (Battery):6:VBAT_NEG	6:BU	EPS - PBP - Connector 1:6	6	
VBAT_NEG	6		EPS - J2 (Battery):7:VBAT_POS	7:RD	EPS - PBP - Connector 1:7	7	
VBAT_POS	7		EPS - J2 (Battery):8:VBAT POS	8:PK	EPS - PBP - Connector 1:8	8	
VBAT_POS	8		EPS - J2 (Battery):9:VBAT_POS	9:TQ	EPS - PBP - Connector 2:1		
VBAT_POS	9		EPS - J2 (Battery):10:VBAT_POS	10:RD	EPS - PBP - Connector 2:2	EPS - PBP - C	Connector 2
VBAT_POS	10		EPS - J2 (Battery):11:VBAT NEG	11:BU	EPS - PBP - Connector 2:3	Picolock	7-pin
VBAT_NEG	11		EPS - J2 (Battery):12:VBAT_NEG	12:BG	EPS - PBP - Connector 2:4	1	
VBAT_NEG	12		EPS - J2 (Battery):13:VBAT_NEG	13:SR	EPS - PBP - Connector 2:5	2	
VBAT_NEG	13 14			14:IV	EPS - PBP - Connector 2:6	3	
VBAT_NEG	_		EPS - J2 (Battery):14:VBAT_NEG			4	
NC	15		EPS - J2 (Battery):15:NC	15:OL	EPS - PBP - Connector 2:7	5	
						6	
						7	

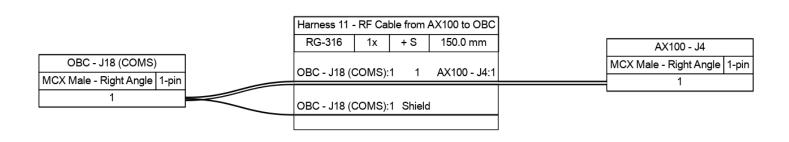


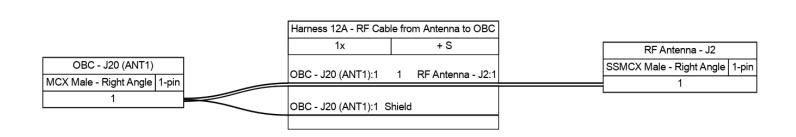
			Harness 7	- GN	SS Connector]			
OBC - J3 (GPS)]		8x]	Г	SNSS via DN	MC3 P1
Picoblade	8-pin		OBC - J3 (GPS):1:NC	1	GNSS via DMC3 P1:1:NC			Picoblade	8-pin
NC	1		OBC - J3 (GPS):2:NC	2	GNSS via DMC3 P1:2:NC		₹1	NC	;
NC	2		OBC - J3 (GPS):3:MOSI_USART3_TX	3	GNSS via DMC3 P1:4:UART1 TX (MOSI)		= 2	NC	
MOSI_USAR		1	OBC - J3 (GPS):4:MISO_USART3_RX	4	GNSS via DMC3 P1:3:UART1 RX (MISO)		=3	UART1 RX	, ,
MISO_USART	13_RX 4		OBC - J3 (GPS):5:NC	5	GNSS via DMC3 P1:5:AUX 1		4	UART1 TX	, ,
NC NC	6		OBC - J3 (GPS):6:NC	6	GNSS via DMC3 P1:6:AUX 2		ڄ	AUX	
GPS PP			OBC - J3 (GPS):7:GPS_PPS	7	GNSS via DMC3 P1:7:AUX 3 (PPS)		٦	AUX	
NC	8		OBC - J3 (GPS):8:NC	8	GNSS via DMC3 P1:8:AUX 4		<u>'</u>	AUX 3 (
	-						_		

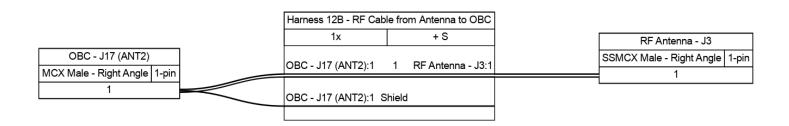
			Harness 8 -	MPI Cor	nnector		
OBC - J10 (M	IPI)			9x		MPI	Connector
Picoblade 10	Picoblade 10-pin		OBC - J10 (MPI):1:12V_MPI	1:VT	MPI Connector:10:12V_MPI	2.54mm	Header 10-pin
12V_MPI	1		OBC - J10 (MPI):2:12V_MPI	2:BK	MPI Connector:9:12V_MPI	10	12V_MPI
12V_MPI	2		OBC - J10 (MPI):3:GND	3:OG	MPI Connector:8:GND	9	12V_MPI
GND	3		OBC - J10 (MPI):4:5V	4:YE	MPI Connector:7:5V	8	GND
5V	4		OBC - J10 (MPI):5:GND	5:GN	MPI Connector:6:GND	7	5V
GND	5		OBC - J10 (MPI):6:MOSI TX P	6:BU	MPI Connector:3:RI	6	GND
MOSI_TX_P			OBC - J10 (MPI):7:MOSI TX N	7:RD	MPI Connector:2:RI*	5	DO*
MOSI_TX_N			OBC - J10 (MPI):8:MISO RX P	8:PK	MPI Connector:5:DO	3	RI
MISO_RX_P	-		OBC - J10 (MPI):9:MISO RX N	9:TQ	MPI Connector:4:DO*	2	RI*
MISO_RX_N	-		000 010 (IVII 1).0.IVII00_10_14	J. 1 Q	WILL CONFIDENCE. T.DO	1	NC NC
NC	10					_ '	140

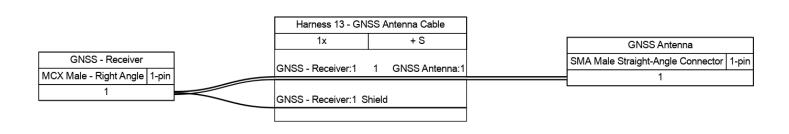
		Harness 9 -	Camera Co	nnector			
OBC - J7 (Camera	a)	6x		250.0) mm	С	amera
Picoblade 6-pir	n _	OBC - J7 (Camera):1:3V3_0	CAM	1:VT	Camera:1:VDD	Picob	lade 6-pin
3V3_CAM	1	OBC - J7 (Camera):2:CAM	_EN	2:BK	Camera:2:ON	1	VDD
CAM_EN	2	OBC - J7 (Camera):3:MOSI_UA	ART4_TX	3:OG	Camera:3:RXD	2	ON
MOSI_UART4_TX MISO_UART4_RX		OBC - J7 (Camera):4:MISO_UA	RT4_RX	4:YE	Camera:4:TXD	3	RXD TXD
NC	5	OBC - J7 (Camera):5:No	С	5:GN	Camera:5:FLASH	5	FLASH
GND	6	OBC - J7 (Camera):6:GN	ID	6:BU	Camera:6:GND	6	GND
	ш						

		Harness 10 - Antenna D	Deployment Co	onnector		
OBC - J13 (Anten	na)	9x	2	50.0 mm	UHF	- Antenna
Picoblade 10-	pin	OBC - J13 (Antenna):1:3V3_ANT_DEPL	OBC - J13 (Antenna):1:3V3_ANT_DEPLOY 1:VT UHF Antenna:1:VCC		Omnetics A	28000-009 9-pin
3V3_ANT_DEPLO	1	OBC - J13 (Antenna):2:12C2_SDA	2:BK	UHF Antenna:2:SDA_A	1	VCC
12C2_SDA	2	OBC - J13 (Antenna):3:GND	3:OG	UHF Antenna:3:GND	2	SDA_A
GND	3	OBC - J13 (Antenna):4:12C3 SDA	4:YE	UHF Antenna:4:SDA B	3	GND
12C3_SDA	4	OBC - J13 (Antenna):5:GND	5:GN	UHF Antenna:5:GND	4	SDA_B
GND	5	OBC - J13 (Antenna):6:3V3 ANT DEPL		UHF Antenna:6:VCC	5	GND
3V3_ANT_DEPLO	′ 6	, , = =			6	VCC
12C2_SCL	7	OBC - J13 (Antenna):7:12C2_SCL	7:RD	UHF Antenna:7:SCL_A	7	SCL_A
12C3_SCL	8	OBC - J13 (Antenna):8:12C3_SCL	8:PK	UHF Antenna:8:SCL_B	8	SCL_B
GND	9	OBC - J13 (Antenna):9:GND	9:TQ	UHF Antenna:9:GND	9	GND
NC	10					

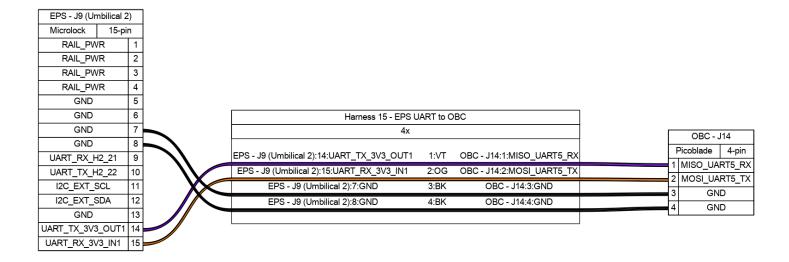


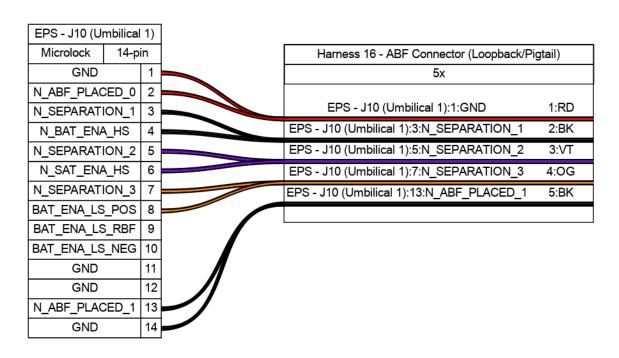


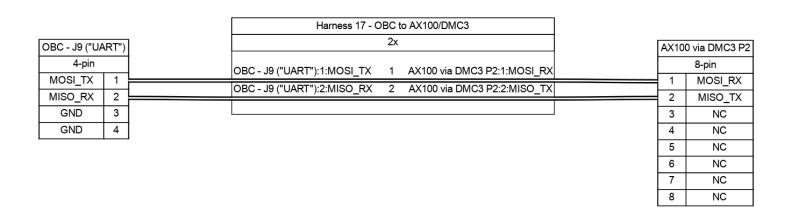




			H	arness 14 - Solar Panel RBF		
OBC - J15 (RB	F)			4x	1U In-House S	olar Panel - LED/RBF Connector
4-pin		OBC - J15 (RBF):1:RBF_1	1:VT	1U In-House Solar Panel - LED/RBF Connector:1:COM_RBF_1		4-pin
RBF_1	1	OBC - J15 (RBF):2:DEBUG_LED	2:OG	1U In-House Solar Panel - LED/RBF Connector:3:LED_1_POSITIVE	1	COM_RBF_1
DEBUG_LED	2	OBC - J15 (RBF):3:GND	3:BK	1U In-House Solar Panel - LED/RBF Connector:2:NO_RBF_1	2	NO_RBF_1
GND GND	4	OBC - J15 (RBF):4:GND	4:BK	1U In-House Solar Panel - LED/RBF Connector:4:LED_1_NEGATIVE	3	LED_1_POSITIVE LED 1 NEGATIVE
GND	4				4	LED_I_NEGATIVE







OBC - J12					1		
Picoblade 10-pin		Harness 51 - Umbilical					
V BAT	1	5x			USB-to-		SB-to-UART
GND	2	OBC - J12:3:MISO_LPUART1_RX	1	USB-to-UART:1:MOSI_TX			5-pin
MISO_LPUART1_RX	-	OBC - J12:4:MOSI_LPUART_TX	2	USB-to-UART:2:MISO_RX		1	MOSI_TX
MOSI_LPUART_TX	4	OBC - J12:5:GND	3	USB-to-UART:3:GND		12	MISO_RX
GND 3V3	5 6	OBC - J12:6:3V3	4	USB-to-UART:4:5V		3	GND 5V
5V	7	OBC - J12:7:5V	5	USB-to-UART:5:3V3		5	3V3
GND	8					_	
GND	9						
GND	10						

