		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	Harness 2 - Boom Burnwire Power				
Burnwire PCB - J2		5x	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)] -	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>-</u>	GND
GND	5	Burnwire PCB - J2:6:GND	5	EPS - VD3_OBC[1]:7:GND		4	
GND	6	Bantwille 1 65 62.6.6115	ightharpoonup	21 0 V20_020[1].7:0112		5	GND
			—			6	I2C_SCL
						7	GND
						8	I2C_SDA

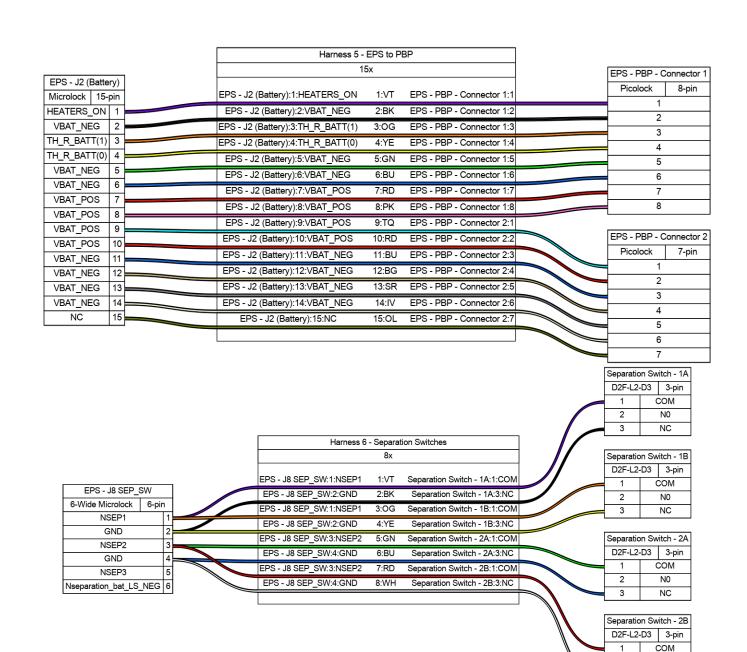
	Harness 3 - Bo			
OBC - J8 (BW)	4x		300.0 mm	Burnwire PCB - J1
Picoblade 4-pin	OBC - J8 (BW):1:BOOM_CTRL_1	1	Burnwire PCB - J1:3:BOOM_CTRL_1	4-pin
BOOM_CTRL_1 1	OBC - J8 (BW):2:GND	2	Burnwire PCB - J1:1:GND	1 GND 2 GND
BOOM CTRL 2 3	OBC - J8 (BW):3:BOOM_CTRL_2	3	Burnwire PCB - J1:4:BOOM_CTRL_2	3 BOOM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

COTS Solar Panel PWR-1	Harness 4 - COTS	Sola	ar Panel PWR	
Picoblade 2-pin	4	x		ı
V+ (Solar Cell P junction) 1 V- (GND) 2	COTS Solar Panel PWR-1:1:V+ (Solar Cell P junction)	1	EPS - J11_CH0, J11_CH1, J11_CH2, J303:2:SP+	Ĺ
	COTS Solar Panel PWR-1:2:V- (GND)	2	EPS - J11_CH0, J11_CH1, J11_CH2, J303:3:GND	Γ
COTS Solar Panel PWR-2	COTS Solar Panel PWR-2:1:V+ (Solar Cell P junction)	3	EPS - J11_CH0, J11_CH1, J11_CH2, J303:6:SP+	Ε
Picoblade 2-pin	COTS Solar Panel PWR-2:2:V- (GND)	4	EPS - J11_CH0, J11_CH1, J11_CH2, J303:7:GND	Γ
V+ (Solar Cell P junction) 1				Ē
V- (GND) 2				

EPS - J11_CH0, J1	1_CH1, J11_CH2, J303
Picolock	8-pin
1	SP+
2	SP+
3	GND
4	GND
5	SP+
6	SP+
7	GND
8	GND

2

N0 NC

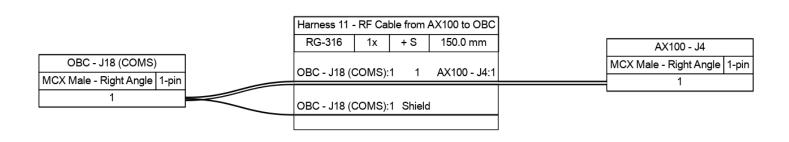


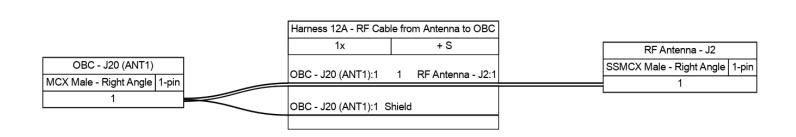
			Harness 7]					
OBC - J3 (GPS)]		8x			Г	SNSS via DN	MC3 P1
Picoblade	8-pin		OBC - J3 (GPS):1:NC	1	GNSS via DMC3 P1:1:NC			Picoblade	8-pin
NC	1		OBC - J3 (GPS):2:NC	2	GNSS via DMC3 P1:2:NC		₹1	NC	;
NC	2		OBC - J3 (GPS):3:MOSI_USART3_TX	3	GNSS via DMC3 P1:4:UART1 TX (MOSI)		= 2	NC	
MOSI_USAR		1	OBC - J3 (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		<u> </u>	UART1 TX	,
NC NC	6		OBC - J3 (GPS):6:NC	6	GNSS via DMC3 P1:6:AUX 2		ڄاڄ	AUX	
GPS PP			OBC - J3 (GPS):7:GPS_PPS	7	GNSS via DMC3 P1:7:AUX 3 (PPS)		<u> </u>	AUX	
NC	8		OBC - J3 (GPS):8:NC	8	GNSS via DMC3 P1:8:AUX 4		<u>'</u> 8	AUX 3 (,
	-						_		

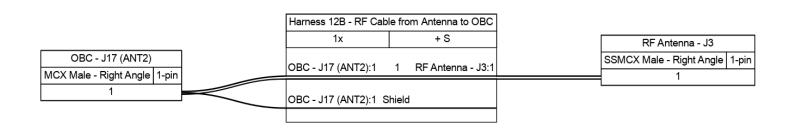
		Harness 8 -	MPI Cor	nnector		
OBC - J10 (M	1PI)		9x		MPI	Connector
Picoblade 10	-pin	OBC - J10 (MPI):1:12V_MPI	1:VT	MPI Connector:10:12V_MPI	2.54mm	Header 10-pin
12V_MPI	1	OBC - J10 (MPI):2:12V_MPI	2:BK	MPI Connector:9:12V_MPI	10	12V_MPI
12V_MPI	2	OBC - J10 (MPI):3:GND	3:OG	MPI Connector:8:GND	9	12V_MPI
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 NC	10	000 010 (IIII 1).0.IVIIOO_10_14	J. 1 Q	III I GOIIIICCOI.T.DO	1	NC NC
INC	10				_ '	140

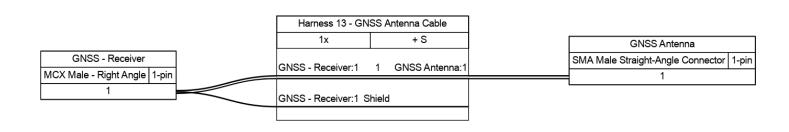
		Harness 9 -	Camera Co				
OBC - J7 (Camera)	6x		250.0	mm	С	amera
Picoblade 6-pir	ı 1	OBC - J7 (Camera):1:3V3_0	CAM	1:VT	Camera:1:VDD	Picob	lade 6-pin
3V3_CAM	1	OBC - J7 (Camera):2:CAM	_EN	2:BK	Camera:2:ON	1	VDD
CAM_EN	2	OBC - J7 (Camera):3:MOSI_UA	ART4_TX	3:OG	Camera:3:RXD	2	ON
MOSI_UART4_TX MISO_UART4_RX	ш	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:GND		6:BU	Camera:6:GND	6	GND

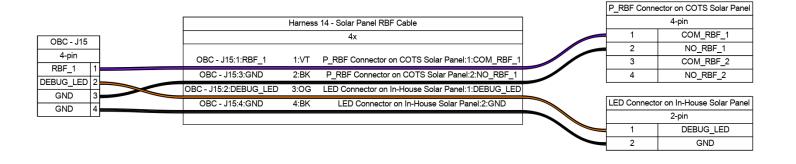
		Harness 10 - Antenna D	Harness 10 - Antenna Deployment Connector				
OBC - J13 (Antenna)		9x	25	50.0 mm		UHF	- Antenna
Picoblade 10-	oin	OBC - J13 (Antenna):1:3V3_ANT_DEPL	OY 1:VT	UHF Antenna:1:VCC		Omnetics A28000-009	
3V3_ANT_DEPLOY	1	OBC - J13 (Antenna):2:12C2_SDA	2:BK	UHF Antenna:2:SDA_A		1	VCC
12C2_SDA	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_DEPLOY	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						

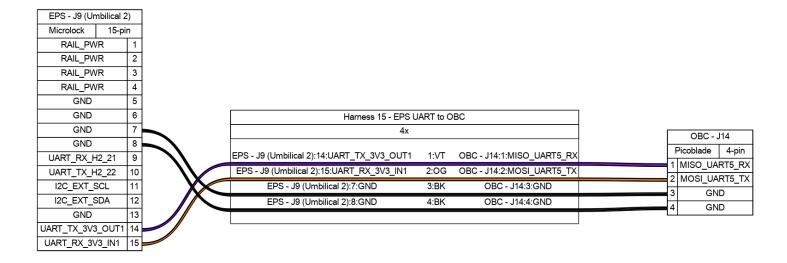


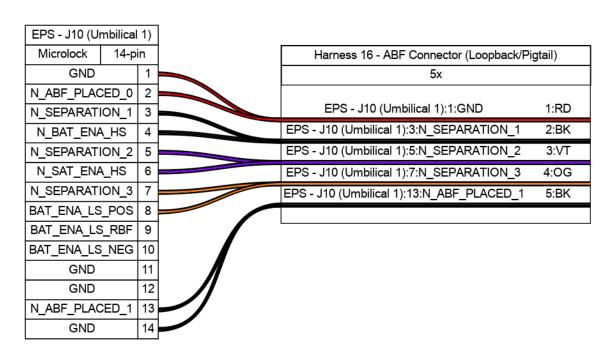


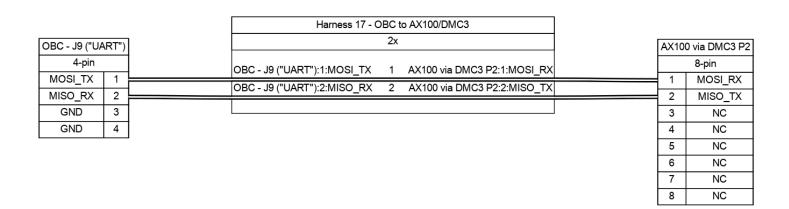












OBC - J12							
Picoblade 10-pi	in	Harness 51 - Umbilical					
V BAT	1	5x				Tu:	SB-to-UART
GND	2	OBC - J12:3:MISO_LPUART1_RX	1	USB-to-UART:1:MOSI_TX			5-pin
MISO_LPUART1_RX	-	OBC - J12:4:MOSI_LPUART_TX	2	USB-to-UART:2:MISO_RX		1	MOSI_TX
MOSI_LPUART_TX	4	OBC - J12:5:GND	3	USB-to-UART:3:GND		12	MISO_RX
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						

