		Harnes	Harness 1 - MPI 12V Power					
OBC - J4 (MPI Power)		4x		200.0 mm		EPS - J10 VD3 OBC		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
								-

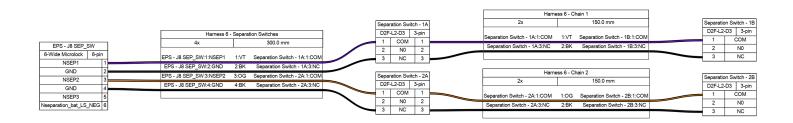
		Harness	Harness 2 - Boom Burnwire Power						
Burnwire PCB - J2		5x	5x 300.0 mm		5x 300.0 mm			FPS	S - VD3_OBC[1]
6-pir	1					-	8-pin		
VDC	1	Burnwire PCB - J2:1:VDC	1	EPS - VD3_OBC[1]:1:VD3_OBC(1)		<u> </u>	VD3 OBC(1)		
VDC	2	Burnwire PCB - J2:2:VDC	2	EPS - VD3_OBC[1]:2:VD3_OBC(1)		]	VD3_OBC(1)		
VDC	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	210 V20_020[1].7:0112		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 Par	COTS Solar Panel PWR-1		Harness 4 - COT	Harness 4 - COTS Solar Panel PWR							
Picoblade	2-pin		4x								
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+						
			COTS Solar Panel PWR-1:2:V- (GND)	2	EPS - J11_CH0, J11_CH1, J11_CH2, J303:3:GND						
COTS Solar Par	nel PWR-2		COTS Solar Panel PWR-2:1:V+ (Solar Cell P junction)	3	EPS - J11_CH0, J11_CH1, J11_CH2, J303:6:SP+						
Picoblade	2-pin		COTS Solar Panel PWR-2:2:V- (GND)	4	EPS - J11_CH0, J11_CH1, J11_CH2, J303:7:GND						
V+ (Solar Cell P	junction) 1										
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				

		Harness 5 -	EPS to P	3P	]		
		1!	5x			EPS - PBP - C	onnector 1
EPS - J2 (Batte	• /	EDO 10 /D // ALIENTEDO ON	4)/T	EDO DDD 0		Picolock	8-pin
Microlock 15-	pin	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 VBAT_POS	9	EPS - J2 (Battery):9:VBAT_POS	9:TQ	EPS - PBP - Connector 2:1			
VBAT_POS	10	EPS - J2 (Battery):10:VBAT_POS	10:RD	EPS - PBP - Connector 2:2		EPS - PBP - C	onnector 2
VBAT_NEG	11	EPS - J2 (Battery):11:VBAT_NEG	11:BU	EPS - PBP - Connector 2:3		Picolock	7-pin
VBAT_NEG	12	EPS - J2 (Battery):12:VBAT_NEG	12:BG	EPS - PBP - Connector 2:4		11	
VBAT_NEG	13	EPS - J2 (Battery):13:VBAT_NEG	13:SR	EPS - PBP - Connector 2:5		2	
VBAT_NEG	14	EPS - J2 (Battery):14:VBAT_NEG	14:IV	EPS - PBP - Connector 2:6		3	
NC	15	EPS - J2 (Battery):15:NC	15:OL	EPS - PBP - Connector 2:7		5	
						6	
						7	

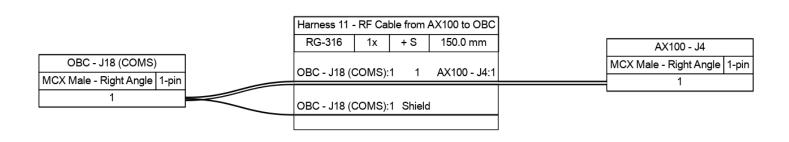


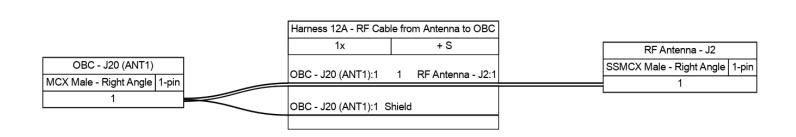
			Harness 7	Harness 7 - GNSS Connector					
OBC - J3 (	GPS)	]		8x			Г	SNSS via DN	MC3 P1
Picoblade	8-pin		OBC - J3 (GPS):1:NC	1	GNSS via DMC3 P1:1:NC			Picoblade	8-pin
NC	1		OBC - J3 (GPS):2:NC	2	GNSS via DMC3 P1:2:NC		₹1	NC	;
NC	2		OBC - J3 (GPS):3:MOSI_USART3_TX	3	GNSS via DMC3 P1:4:UART1 TX (MOSI)		= 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		<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 (	,
	-						_		

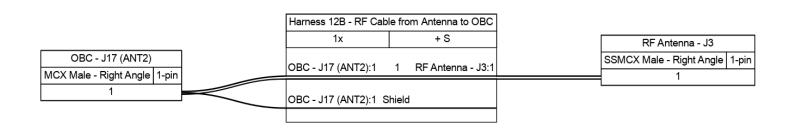
			Harness 8 -	MPI Cor	nnector		
OBC - J10 (MPI)				9x	MPI	Connector	
Picoblade 10	Picoblade 10-pin		OBC - J10 (MPI):1:12V_MPI	DBC - J10 (MPI):1:12V_MPI		2.54mm	Header 10-pin
12V_MPI	1		OBC - J10 (MPI):2:12V_MPI	2:BK	MPI Connector:9:12V_MPI	10	12V_MPI
12V_MPI	2		OBC - J10 (MPI):3:GND	3:OG	MPI Connector:8:GND	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		0.0 0.10 (IMI 1).0.101100_10\_14	J. 1 Q	III I GOIIIICCOI.T.DO	1	NC NC
INC	10					_ '	140

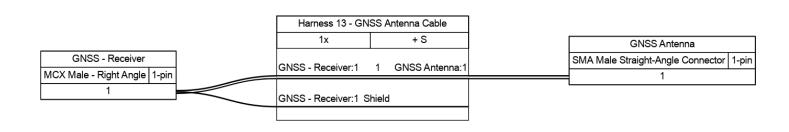
		Harness 9 -	Camera Co				
OBC - J7 (Camera)		6x	250.0 mm			С	amera
Picoblade 6-pir	ı 1	OBC - J7 (Camera):1:3V3_CAM 1		1:VT	Camera:1:VDD	Picob	lade 6-pin
3V3_CAM	1	OBC - J7 (Camera):2:CAM	_EN	2:BK	Camera:2:ON	1	VDD
CAM_EN	2	OBC - J7 (Camera):3:MOSI_UA	ART4_TX	3:OG	Camera:3:RXD	2	ON
MOSI_UART4_TX MISO_UART4_RX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

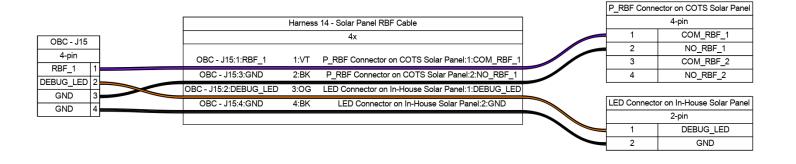
		Harness 10 - Antenna D	Harness 10 - Antenna Deployment Connector				
OBC - J13 (Antenna)		9x	25	50.0 mm		UHF	- Antenna
Picoblade 10-	oin	OBC - J13 (Antenna):1:3V3_ANT_DEPL	OY 1:VT	UHF Antenna:1:VCC		Omnetics A	28000-009 9-pin
3V3_ANT_DEPLOY	1	OBC - J13 (Antenna):2:12C2_SDA	2:BK	UHF Antenna:2:SDA_A		1	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						

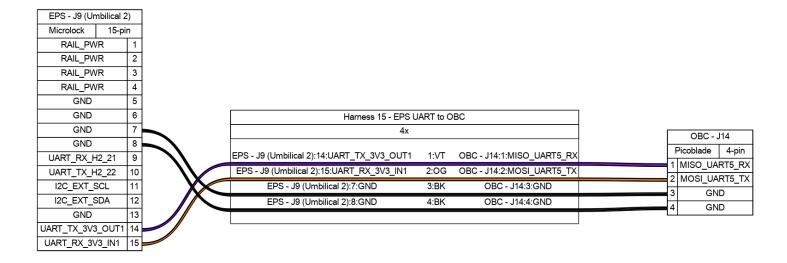


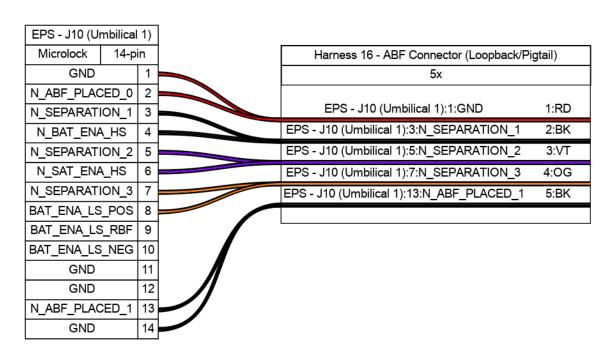


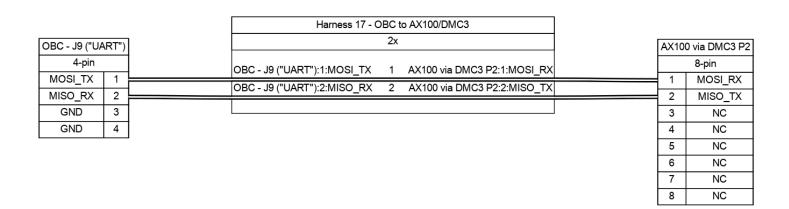












OBC - J12						
Picoblade 10-pi	in	Harness 51 -				
V BAT	1	5x	Tu:	SB-to-UART		
GND	2	OBC - J12:3:MISO_LPUART1_RX	1	USB-to-UART:1:MOSI_TX		5-pin
MISO_LPUART1_RX	<del>-</del>	OBC - J12:4:MOSI_LPUART_TX	2	USB-to-UART:2:MISO_RX	1	MOSI_TX
MOSI_LPUART_TX	4	OBC - J12:5:GND	3	USB-to-UART:3:GND	12	MISO_RX
GND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

