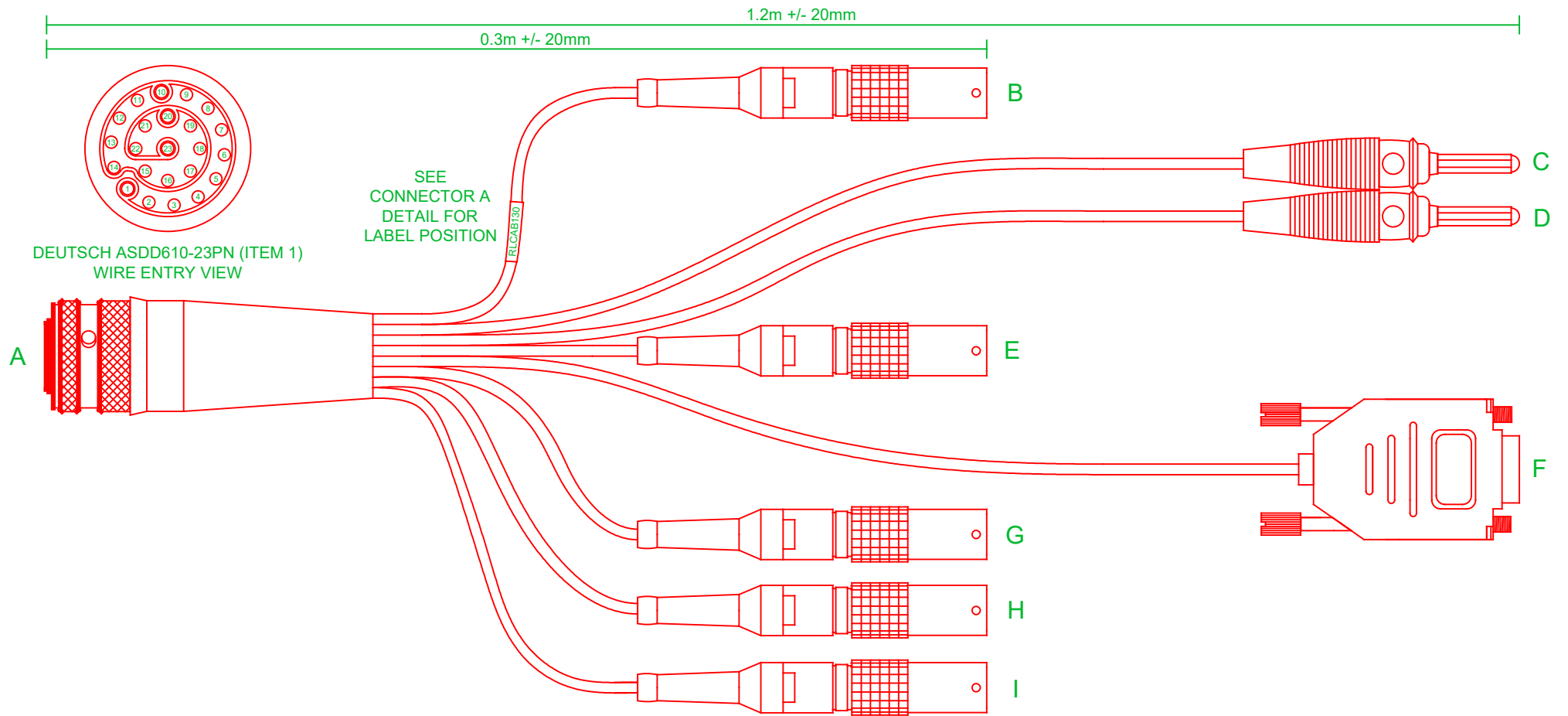


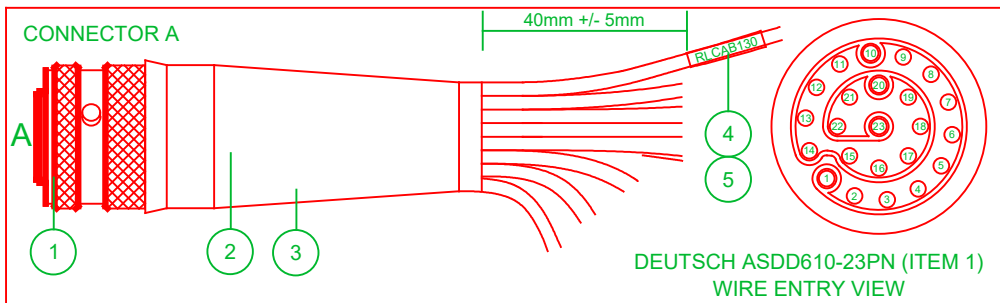
# DRAWING NOT TO SCALE



SEE CONNECTOR A  
DETAIL FOR  
LABEL POSITION

NOTE:  
LEAD SHOULD BE INDIVIDUALLY PACKED IN APPROPRIATELY SIZED PLASTIC BAG TO PREVENT DAMAGE  
AND TANGLING DURING SHIPPING

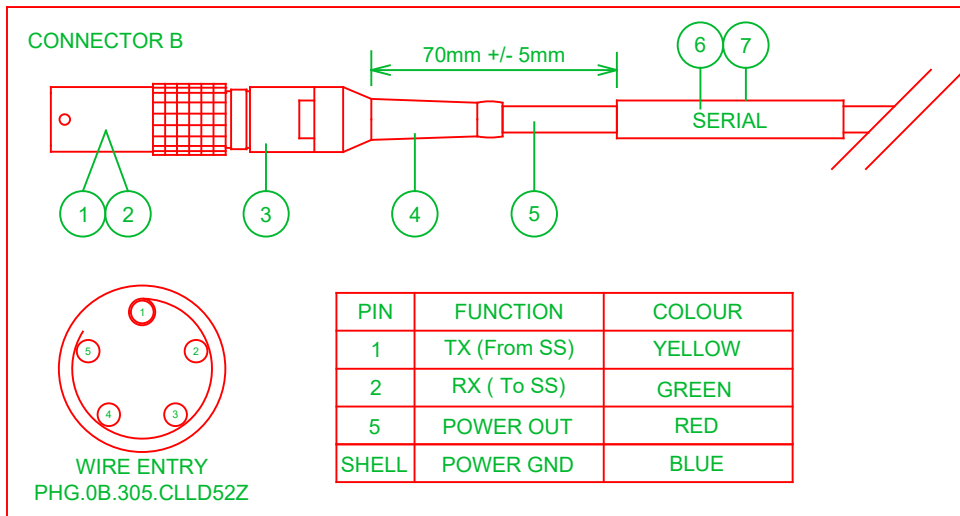
DRAWING NUMBER	RLCAB130	DRAWN	S. HOOPER	SHEET	1/6
DESCRIPTION	SPEED SENSOR WITH IMU - ADAS CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
5	MINOR CORRECTIONS	06.01.20	GC	14560	



- CRIMP SETTING ON DEUTSCH TOOL NEEDS TO BE SET TO SIZE AWG 26 WIRE
- TIGHTLY WRAP KAPTON TAPE AROUND WIRES TO HOLD SECURE AND PROTECT FROM HEAT.
- FIT CONTACTS IN ALL DEUTSCH CONNECTOR (ITEM 1) POSITIONS EVEN WHEN CONTACT IS NOT WIRED.
- DO NOT WRAP KAPTON OVER BACK OF CONNECTOR AS THIS WILL PREVENT BOOT FROM GRIPPING THE CONNECTOR, SEE PHOTO.
- ONCE CONNECTOR PINS ARE POPULATED, TEST CABLE BEFORE SHRINKING ADHESIVE LINED BOOT.
- POT CONNECTOR BOOT (ITEM 3) WITH POTTING COMPOUND ENSURING THAT NO POTTING COMPOUND RUNS DOWN THE OUTSIDE OF THE CONNECTOR BOOT (ITEM 3).

**BILL OF MATERIALS**

ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	SERVO	ASDD610-23PN	DEUTSCH AUTOSPORT CONNECTOR
2	1	RS	436-2762	KAPTON TAPE
3	1	FARNELL	189-1547	ADHESIVE-LINED STRAIN BOOT
4	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
5	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1

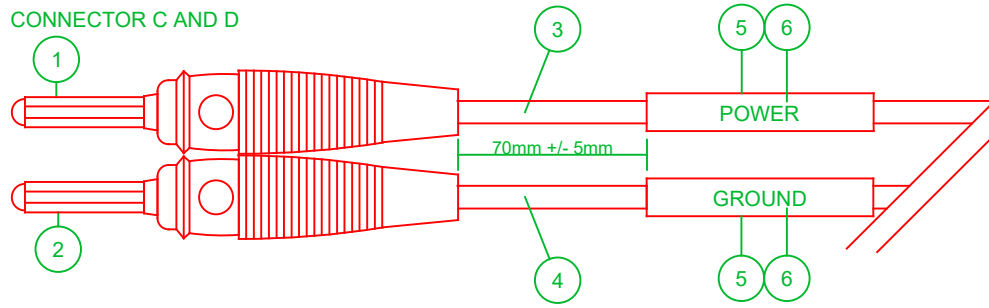


**BILL OF MATERIALS**

ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	LEMO	PHG.0B.305.CLLD52Z	LEMO 5-WAY CABLE-MOUNT SOCKET
2	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5
3	10mm	FARNELL	100-8431	HEATSHRINK 2:1 BK 4.8mm
4	1	LEMO	GMA.0B.035.D	LEMO STRAIN RELIEF BLACK
5	0.3m	FARNELL	119-0211	7-2-04A CABLE - 4 WIRES - 7/32 AWG 0.2mm
6	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
7	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1

DRAWING NUMBER	RLCAB130	DRAWN	S. HOOPER	SHEET	2/6
DESCRIPTION	SPEED SENSOR WITH IMU - ADAS CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
5	MINOR CORRECTIONS	06-01-20	GC	14569	

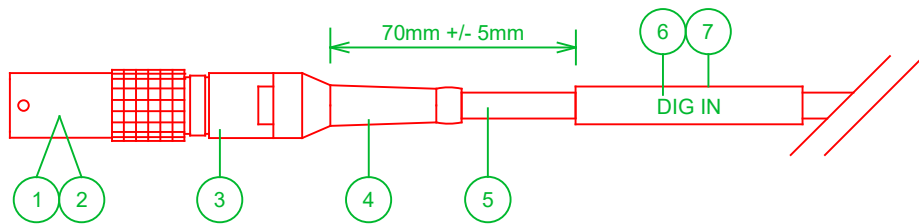
CONNECTOR C AND D



BILL OF MATERIALS

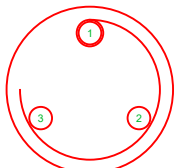
ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	RS	641-8025	4mm PLUG - RED
2	1	RS	641-8019	4mm PLUG - BLACK
3	1.2m	RS	359-683	RED CABLE
4	1.2m	RS	359-677	BLACK CABLE
5	2	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
6	2 x 30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1

CONNECTOR E



BILL OF MATERIALS

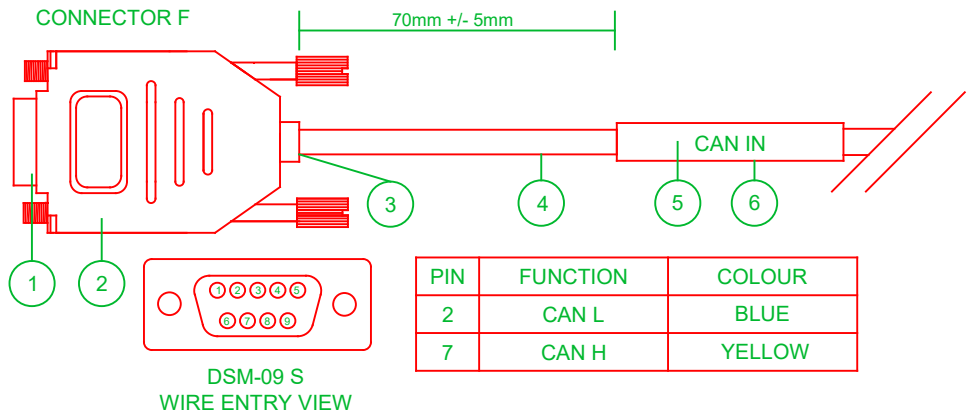
ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	LEMO	PHG.0B.303.CLLD52Z	LEMO 3-WAY CABLE-MOUNT SOCKET
2	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5
3	10mm	FARNELL	100-8431	HEATSHRINK 2:1 BK 4.8mm
4	1	LEMO	GMA.0B.035.DN	LEMO STRAIN RELIEF BLACK
5	0.3m	FARNELL	119-0211	7-2-04A CABLE - 4 WIRES - 7/32 AWG 0.2mm
6	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
7	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1



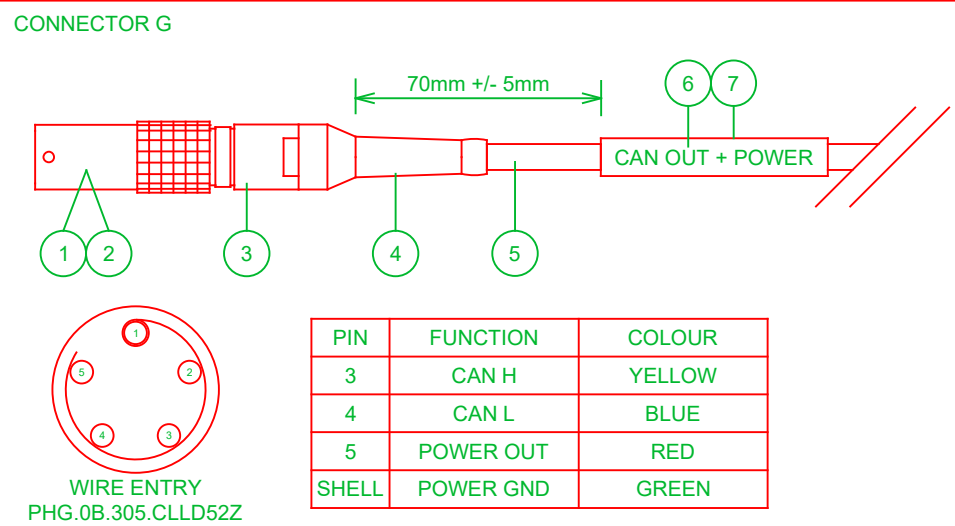
WIRE ENTRY  
PHG.0B.303.CLLD52Z

PIN	FUNCTION	COLOUR
SHELL	DIG IN GND	BLUE
3	DIG IN	GREEN

DRAWING NUMBER	RLCAB130	DRAWN	S. HOOPER	SHEET	3/6
DESCRIPTION	SPEED SENSOR WITH IMU - ADAS CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
5	MINOR CORRECTIONS	06-01-20	GC	14569	



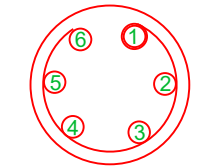
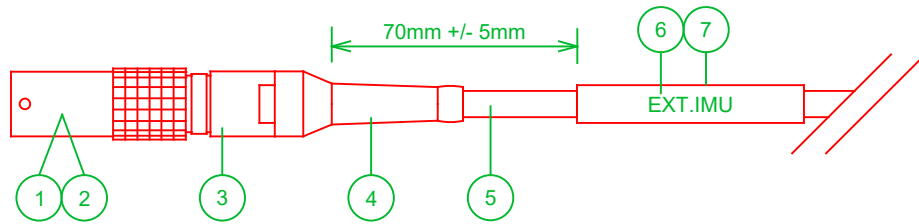
BILL OF MATERIALS				
ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	TOBY	DSM-09-S	9 WAY D SOCKET
2	1	TOBY	MHDPPK-09-K	9 WAY D CONNECTOR HOOD
3	20mm	FARNELL	119-0781	HEATSHRINK
4	1.2m	FARNELL	119-0211	7-2-04A CABLE - 4 WIRES - 7/32 AWG 0.2mm
5	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
6	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1



BILL OF MATERIALS				
ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	LEMO	PHG.0B.305.CLLD52Z	LEMO 5-WAY CABLE-MOUNT SOCKET
2	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5
3	10mm	FARNELL	100-8431	HEATSHRINK 2:1 BK 4.8mm
4	1	LEMO	GMA.0B.035.DA	LEMO STRAIN RELIEF BLUE
5	0.3m	FARNELL	119-0211	7-2-04A CABLE - 4 WIRES - 7/32 AWG 0.2mm
6	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
7	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1

DRAWING NUMBER	RLCAB130	DRAWN	S. HOOPER	SHEET	4/6
DESCRIPTION	SPEED SENSOR WITH IMU - ADAS CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
5	MINOR CORRECTIONS	06-01-20	GC	14569	

### CONNECTOR H



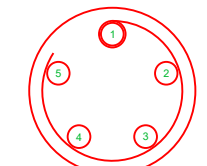
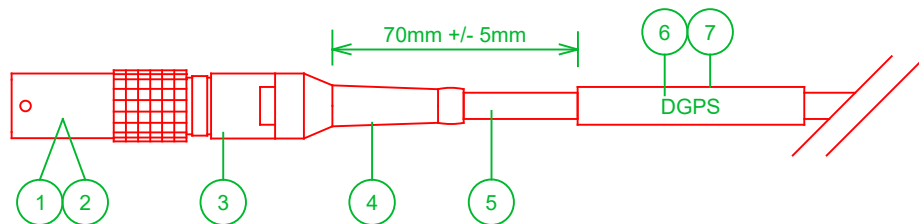
WIRE ENTRY VIEW  
PHA.0B.306.CLLD52Z

PIN	FUNCTION	COLOUR
1	Rx (To SS)	GREEN
2	Tx (From SS)	YELLOW
5	Ext.IMU POWER	RED
6	IPPS	WHITE
SHELL	Ext.IMU GND	BLACK

### BILL OF MATERIALS

ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	LEMO	PHA.0B.306.CLLD52Z	LEMO 6-WAY CABLE-MOUNT SKT - A-KEYWAY
2	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5
3	10mm	FARNELL	100-8431	HEATSHRINK 2:1 BK 4.8mm
4	1	LEMO	GMA.0B.040.DN	LEMO STRAIN RELIEF BLACK
5	0.3m	RS	660-4049	CABLE- 6 CORE UN-SCREENED
6	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
7	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1

### CONNECTOR I



WIRE ENTRY  
PHG.0B.305.CLLD52Z

PIN	FUNCTION	COLOUR
1	Tx (From SS)	YELLOW
2	Rx (To SS)	GREEN
5	DGPS POWER	RED
SHELL	DGPS GND	BLUE

### BILL OF MATERIALS

ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	LEMO	PHG.0B.305.CLLD52Z	LEMO 5-WAY CABLE-MOUNT SOCKET
2	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5
3	10mm	FARNELL	100-8431	HEATSHRINK 2:1 BK 4.8mm
4	1	LEMO	GMA.0B.035.DJ	LEMO STRAIN RELIEF YELLOW
5	0.3m	FARNELL	119-0211	7-2-04A CABLE - 4 WIRES - 7/32 AWG 0.2mm
6	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
7	30mm	FARNELL	304-6539	HEATSHRINK CLEAR 6mm 3:1

DRAWING NUMBER	RLCAB130	DRAWN	S. HOOPER	SHEET	5/6
DESCRIPTION	SPEED SENSOR WITH IMU - ADAS CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
5	MINOR CORRECTIONS	06-01-20	GC	14569	

CONNECTOR WIRING				
DEUTSCH 23 WAY	FUNCTION	COLOUR	FUNCTIONAL GROUP	CABLE CONNECTOR TYPE
PIN				
6	POWER	RED	POWER IN	4mm BANANA PLUG RED
5	POWER RETURN	BLACK		4mm BANANA PLUG BLACK
14	DIG IN GND	BLUE	DIGITAL INPUT	3 WAY LEMO SOCKET
13	DIG IN	GREEN		
12	CAN IN H	YELLOW	CAN IN	9 WAY D-TYPE SOCKET
11	CAN IN L	BLUE		
10	CAN OUT H	YELLOW	CAN OUT + POWER	5 WAY LEMO SOCKET
9	CAN OUT L	BLUE		
7	POWER OUT	RED		
8	POWER GND	GREEN	DGPS (RS232)	5 WAY LEMO SOCKET
3	Tx (From SS)	YELLOW		
16	Rx (To SS)	GREEN		
4*	DGPS POWER	RED		
2	DGPS GDN	BLUE	SERIAL (RS232)	5 WAY LEMO SOCKET
22	Tx (From SS)	YELLOW		
21	Rx (To SS)	GREEN		
4*	POWER OUT	RED		
15	POWER GND	BLUE	Ext. IMU (RS232 + 1PPS)	LEMO 6 WAY SOCKET A-KEYWAY
20	Tx (From SS)	YELLOW		
19	Rx (To SS)	GREEN		
23	1PPS	WHITE		
17	Ext. IMU GND	BLACK		
18	Ext. IMU POWER	RED		

NOTE \* Power shared between interfaces

DRAWING NUMBER	RLCAB130	DRAWN	S. HOOPER	SHEET	6/6
DESCRIPTION	SPEED SENSOR WITH IMU - ADAS CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
5	MINOR CORRECTIONS	06-01-20	GC	14569	