

BILL OF MATERIALS				
ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	BARRON CONTROL GEAR	ADC25IPCON	25 WAY D CONNECTOR
2	A/R	FARNELL	100-8431	HEATSHRINK 2:1 BK 4.8mm
3	A/R	ALPHA WIRE	3308 SL005	MULTICORE, SCREENED, 8 CORE, 28 AWG
4	30mm	FARNELL	304-6539	CLEAR HEATSHRINK
5	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
6	2	LEMO UK	GMA.0B.045.DG	LEMO GREY STRAIN BOOT
7	1	LEMO UK	FGG.0K.307.CLAC50Z	LEMO 7 WAY 0K PLUG - G KEYWAY
8	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5
9	1	FARNELL	208-2473	FERRITE CORE (WURTH 74271132S)
10	1	LEMO UK	FGG.0B.305.CLAD52Z	LEMO 5 WAY 0B PLUG - G KEYWAY
11	1	LEMO UK	BRF.0K.200.NAS	LEMO 0K BLANKING CAP

LENGTH REQUIREMENTS			
CABLE NAME	LENGTH	TOLERANCE	CABLE
RLCAB153	3m	+/-20mm	3308 SL005
RLCAB153-5	5m	+/-20mm	3308 SL005
RLCAB153-10	10m	+/-20mm	3308 SL005
RLCAB153-12	12m	+/-20mm	3308 SL005

CONNECTOR WIRING				
25 WAY D			5 WAY P	7 WAY PS
PIN	FUNCTION	COLOUR	PIN	PIN
12	IMU RS232 Rx	WHITE/BLACK	N/C	1
13	IMU RS232 Tx	RED/BLACK	N/C	2
N/C	IPS RS232 Tx	GREEN	1	3
N/C	IPS RS232 Rx	BLUE	2	4
11	1PPS	ORANGE	N/C	5
14	POWER	RED	N/C	6
17	GND	BLACK	SHELL	7
SHELL	SHIELD	SHIELD	N/C	SHELL

DRAWING NUMBER	RLCAB153-x	DRAWN	A.GOLDMAN	SHEET	1/2
DESCRIPTION	VIPS ROVER CABLE TO VB3i				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
2	IMU Rx/Tx Swaped	09/05/19	SH	13097	



NOTES:

-Cut 2 lengths of ITEM 3 as required *Note: cable for 7-way must be cut 0.12m longer than the required finished cable length to provide enough cable for ferrite loop.*

-Assemble 25-way end referencing the pin out. *Note: 7-way cable requires screen to be folded back. See Pictures 1 and 2*

-Cut 5-way cable to the correct length and fit the Lemo connector. *Heat shrink (ITEM 2) to pack out cable under collet.*

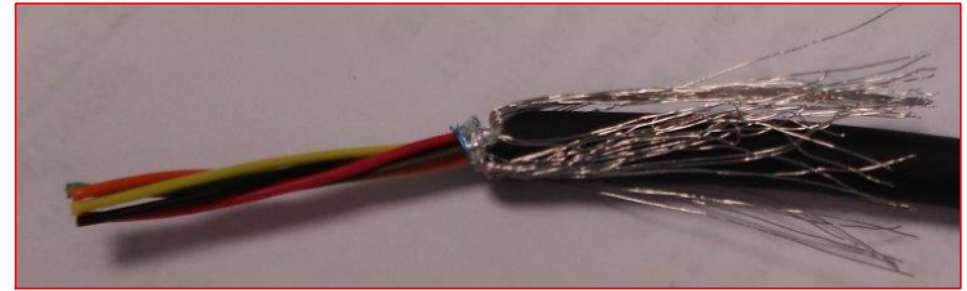
-Cut 7-way cable to the correct length and fit the Lemo connector. *Note: Remember the extra length to accommodate the ferrite.*

-Fit Ferrite

-Fit Label

-Fit ITEM 11

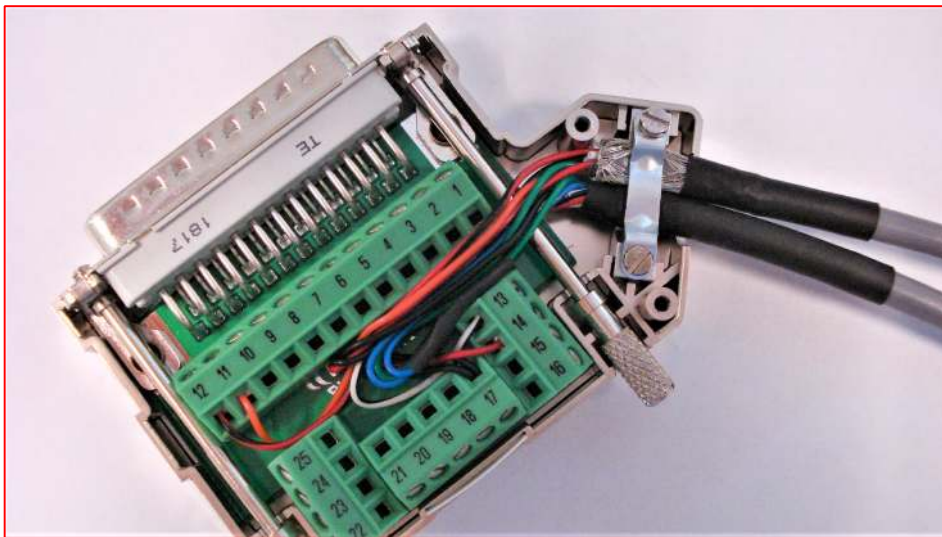
-Test



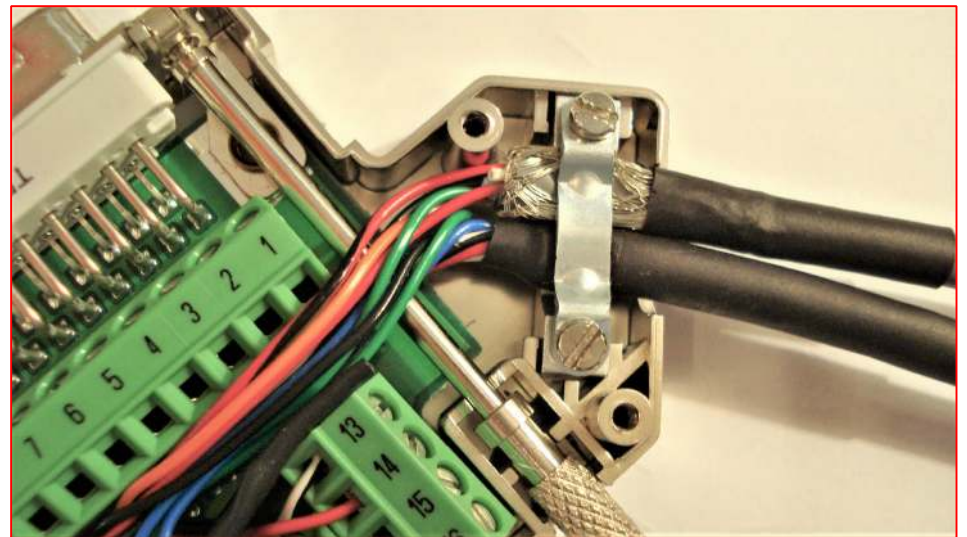
PICTURE 1



PICTURE 2



PICTURE 3



PICTURE 4

DRAWING NUMBER	RLCAB153-x	DRAWN	A.GOLDMAN	SHEET	2/2
DESCRIPTION	VIPS ROVER CABLE TO VB3i				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
2	IMU Rx/Tx Swaped	09/05/19	SH	13097	