

BILL OF MATERIALS

Item	Qty	Manufacturer	Manufacturer PN	Description	Racelogic PN
1	1	LEMO	FGA.0B.306.CLAD52Z	LEMO 6W A-KEYWAY CABLE MOUNT PLUG	LEMO 6W P-A
2	A/R	FARNELL	100-8431	HEATSHRINK 2: 1 BK 4.8mm	100-8431
3	A/R	ALPHA WIRE	3308 SL005	MULTICORE, SCREENED, 8 CORE, 28 AWG	3308 SL005
4	30mm	FARNELL	304-6539	CLEAR HEATSHRINK	304-6539
5	1	AVERY	J8658-25	CABLE IDENT ON 25.4 x 10mm LABEL	-
6	3	LEMO UK	GMA.0B.040.DG	LEMO GREY STRAIN BOOT	GMA.0B.040DG
7	1	LEMO UK	FGG.0K.307.CLAC50Z	LEMO 7W S/P PLUG - G KEYWAY	LEMO 7WAY PS
8	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5	119-1021
9	1	FARNELL	208-2473	FERRITE CORE (WURTH 74271132S)	74271132S
10	1	LEMO UK	BRF.0K.200.NAS	LEMO 0K BLANKING CAP	LEMO BLANKS2
11	1	LEMO UK	FGG.0B.305.CLAD52Z	LEMO 5 WAY 0B PLUG - G KEYWAY	LEMO 5WAY P
12	1	VITAL PARTS	NYS034	M6.2 x 20mm F/F NYLON SPACER	NYS034
13	50mm	TE CONNECTIVITY	HTAT-12/3-0-STK	HEATSHRINK 12mm 4:1 BLACK 12/3 ADHESIVE LINED	HTAT-12/3-0
14	A/R	PRO POWER	SPC5086	HEATSHRINK TUBING, EMI SHIELD, 24AWG	SPC5086

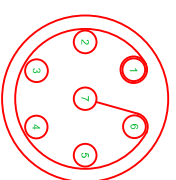
CONNECTOR WIRING

6 WAY P	5 WAY P	7 WAY PS		
PIN	PIN	PIN		
FUNCTION	COLOUR	PIN		
1	IMU RS232 Rx	WHITE / BLACK	N/C	1
2	IMU RS232 Tx	RED / BLACK	N/C	2
N/C	IPS RS232 Rx	GREEN	1	3
N/C	IPS RS232 Tx	BLUE	2	4
6	1PPS	ORANGE	N/C	5
5	POWER	RED	N/C	6
SHELL	GND	BLACK	SHELL	7
SHELL	SHELL	SHELL	SHELL	SHELL

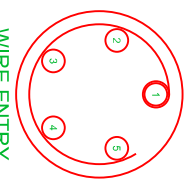
LENGTH REQUIREMENTS

CABLE NAME	LENGTH	TOLERANCE
RLCAB223	3m	+/-20mm
RLCAB223-5	5m	+/-20mm
RLCAB223-10	10m	+/-20mm
RLCAB223-12	12m	+/-20mm

WIRE ENTRY
FGG.0K.307.CLAC50Z



WIRE ENTRY
FGG.0B.305.CLAD52Z



ISS	DESCRIPTION	DATE	APPROVED	REDMINE
1	FIRST ISSUE	12-01-24	SH	22285

DRAWING NUMBER	RLCAB223-x	DRAWN	H.HUSSAIN	SHEET	1/2
DESCRIPTION	LEMO 6W + LEMO 5W to LEMO 7W SP				
REVISION					

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.
- 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.
- Use Heatshrink (ITEM 13) over Nylon spacer (ITEM 12), then heatshrink over both with shielded heatshrink (ITEM 14). See picture 3.
- Use ITEM 8 to insulate LEMO solder joints.
- Fit Ferrite
- Fit Label
- Fit ITEM 10
- Test



PICTURE 1



PICTURE 2



PICTURE 3

DRAWING NUMBER	RLCAB23-x	DRAWN	H.HUSSAIN	SHEET	2/2
DESCRIPTION	LEMO 6W + LEMO 5W to LEMO 7W SP				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
1	FIRST ISSUE	09-01-24	SH	22285	