

SEE NOTE 2

SEE NOTE 4

SEE NOTE 5

NOTES:

1. FIT THE CABLE LABEL (ITEM 9) AND THE CLEAR HEATSHRINK (ITEM 10).
2. SOLDER THE YELLOW WIRES FROM BOTH CABLES TOGETHER AND INSULATE THE JOINT WITH HEATSHRINK (ITEM 6).
3. WIRE UP ALL THE CONNECTORS AS PER THE CONNECTION TABLE AND INSULATE ALL SOLDER JOINTS WITH HEATSHRINK (ITEM 6).
4. SOLDER THE BLUE WIRES FROM THE LEMO CABLE AND THE HIROSE CABLE TO PINS 7 AND 8 ON THE D-SUB CONNECTOR, RESPECTIVELY. THEN, ADD A SOLDER BRIDGE BETWEEN PINS 7 AND 8.
5. A SHORT LENGTH OF RED 7/0.2MM WIRE (ITEM 11) SHOULD BE SOLDERED FROM PIN 1 TO PIN 14. SOLDER THE RED WIRES FROM THE LEMO CABLE AND THE HIROSE CABLE TO PINS 1 AND 15 ON THE D-SUB CONNECTOR, RESPECTIVELY. THEN ADD A SOLDER BRIDGE BETWEEN PINS 14 AND 15.
6. FIT ADHESIVE HEATSHRINK (ITEM 7) TO BOTH CABLES UNDER THE CABLE CLAMP OF THE D-SUB BACKSHELL (ITEM 4).

CONNECTOR WIRING

019745F / 637-109	LEMO 5 WAY PLUG	15W D-SUB SOCKET	HIROSE 6 WAY PLUG	7-2-6S BLACK CABLE
COLOUR	PIN	PIN	PIN	COLOUR
YELLOW	1	N/C	1	YELLOW
GREEN	2	9	2	GREEN
BLUE	SHELL	7, 8	3	BLUE
RED	5	1, 14, 15	6	RED

BILL OF MATERIALS

ITEM	QTY	SUPPLIER	SUPPLIER PN	DESCRIPTION	RACELOGIC PN
1	1	LEMO UK	FGG.0B.305.CLAD52Z	LEMO 5WAY PLUG	LEMO 5WAY P
2	1	HIROSE	HR30-6P-6P(31)	HIROSE 6 WAY PLUG	142-5745
3	1	RS	246-9513	15W D-SUB SOCKET SOLDER BUCKET	246-9513
4	1	RS	322-9866	15WAY D-SUB BACKSHELL BLACK PLASTIC	322-9866
5	1	LEMO UK	GMA.0B.040.DN	LEMO BLACK SLEEVE GMA.0B.040.DN	GMA.0B.040.D
6	A/R	FARNELL	119-1021	HEATSHRINK 1.5/0.5	119-1021
7	30mm	RS	481-1797	HEATSHRINK BLACK 6.4/2.13mm ADHESIVE LINED 3:1	157-3795
8	A/R	RAPID ELECTRONICS	02-0273	CABLE - 4 CORE Black, DEF 7-2-04C	119-0253
9	1	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT	J8658-25
10	30mm	FARNELL	304-6539	CLEAR HEATSHRINK 6mm 3:1	304-6539
11	A/R	RS	196-4219	WIRE, RED, 7/32 AWG	435-168

RACELOGIC

Unit 10 Swan Business Centre, Osier Way, Buckingham, MK18 1TB.
Email: hardware@racelogic.co.uk Tel: +44 (0)1280 823803

	NAME	DATE
DRAWN	C.UDAGEDARA	03/02/25
CHK'D	S.TAYLOR	20/02/25
APPV'D	S.HOOPER	20/02/25

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETRES
TOLERANCES: LINEAR: $\pm 10\text{mm}$ ANGULAR: $\pm 10^\circ$

DWG NUMBER : RLCAB240

DESCRIPTION : HIROSE HR30 6W PLG to 15W D-Type SKT & LEMO 5W PLG

REDMINE NUMBER : 24484

REVISION

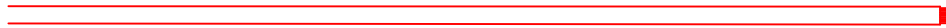
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IF YOU ARE UNSURE ABOUT SOMETHING OR WOULD LIKE TO DEVIATE FROM THE DRAWING TO EASE MANUFACTURE, PLEASE CONTACT THE DESIGNER (DRAWN)

A4

DRAWING NOT TO SCALE

SHEET 1 OF 2

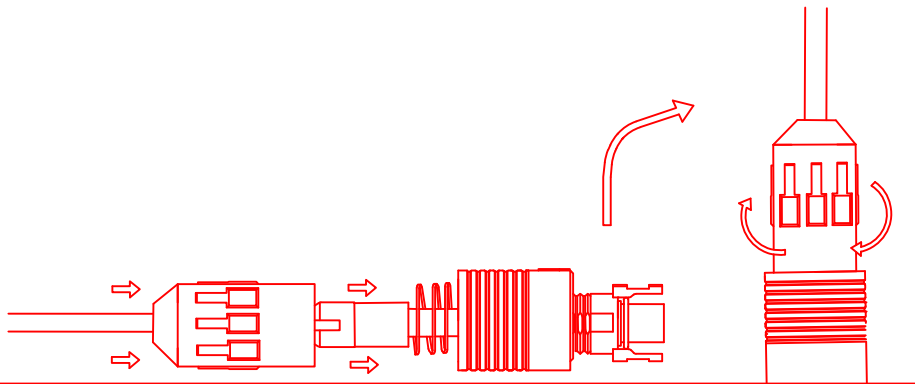
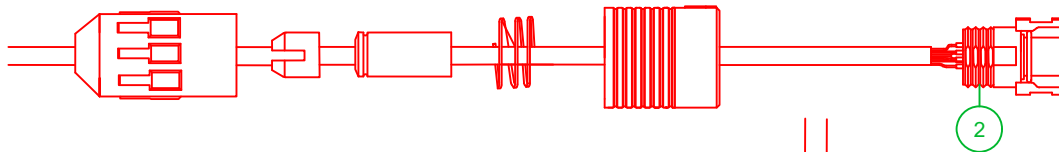
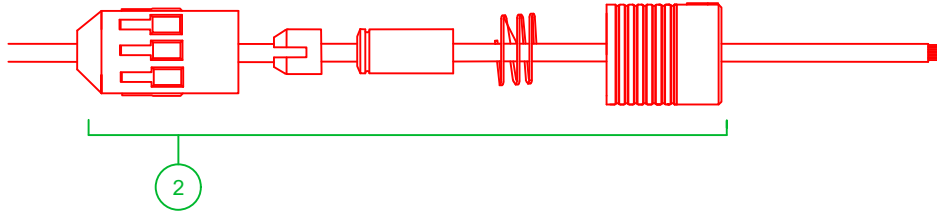


- STRIP AND TIN 3 MM FROM EACH WIRE.

- ASSEMBLE THE CONNECTOR PARTS ONTO THE CABLE IN THE ORDER AND ORIENTATION SHOWN.

- SOLDER THE CONNECTOR AS PER THE CONNECTION TABLE AND INSULATE ALL JOINTS WITH ITEM 6.

- SLIDE AND ASSEMBLE THE CONNECTOR COMPONENTS TOGETHER, ENSURING THAT THE HIROSE CONNECTOR BACK SHELL IS FULLY TIGHTENED. APPLY **LOCTITE 263** AND **LOCKTITE SF 7649 PRIMER** TO PREVENT LOOSENESS.



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