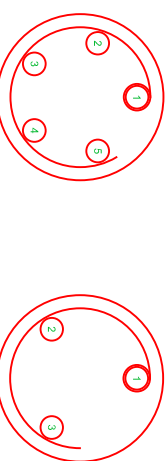


**NOTES:**

- Remove M12 cable (Item 1) from packaging, cut off manufacturer part number label and cut to required length.
- Slide 30mm of clear heatshrink (Item 2) over cable followed by 30mm of black 9/3 adhesive heatshrink (Item 4).
- Cut back cable outer insulation to appropriate length to expose all wires and cut back unused white/grey wires (ensure staggered).
- Cut back blue wire leaving 10mm and solder 2 lengths of blue 16/0.2mm wire (Item 11) onto existing blue wire. Cover joint with appropriate length of heatshrink (Item 9).
- Twist one blue wire together tightly with the brown wire and the other blue wire with the black wire. Cover each twisted pair so formed with heatshrink (Item 9).
- Slide a piece of 6/2 adhesive heatshrink (Item 5) over each of the twisted pairs and heat as close to the joint as possible.
- Slide the piece of 9/3 adhesive heatshrink Item 4 up to cover all 3 cables and shrink to form a 'Y' piece using 'Shipe Nose Pliers'.
- Place 30mm of clear heatshrink (Item 2) over each twisted pair, followed by Lemo boots and solder wires to Lemo's as per connector wiring table, covering joints with suitable lengths of 1.5/0.5mm heatshrink (Item 10). Complete connector assembly and fit Lemo boots.
- Heatshrink labels in required locations as shown in the above diagram.
- Test cable.

**BILL OF MATERIALS**

ITEM	QTY	SUPPLIER	PART NUMBER	DESCRIPTION
1	1	SEE VARIANT TABLE	SEE VARIANT TABLE	SEE VARIANT TABLE
2	3	FARNELL	304-6539	CLEAR HEATSHRINK x 30mm
3	3	AVERY	J8658-25	25.4 x 10mm LABEL + CABLE IDENT
4	1	RS	157-3802	BLACK 9/3 ADHESIVE HEATSHRINK x 30mm
5	2	RS	157-3795	BLACK 6/2 ADHESIVE HEATSHRINK x 15mm
6	2	CAMBERTRONICS	GMA.0B.030.D	LEMO BLACK SLEEVE
7	1	CAMBERTRONICS	FGG.0B.305.CLAD52Z	LEMO 5 WAY P
8	1	CAMBERTRONICS	FGG.0B.303.CLAD52Z	LEMO 3 WAY P
9	A/R	CPC	100-8430	BLACK 3.2/1.6mm HEATSHRINK
10	A/R	FARNELL	119-1021	BLACK 1.5/0.5mm HEATSHRINK
11	A/R	FARNELL	140-345	WIRED BLUE 16/0.2mm



WIRE ENTRY FGG.0B.305.CLAD52Z  
WIRE ENTRY FGG.0B.303.CLAD52Z

CONNECTOR WIRING		CONNECTOR WIRING	
5 WAY M12 CON	PIN	3W/5W LEMO	PIN
	1		BROWN
	2		BLUE
	3		BLACK
	4		WHITE
	5		GREY

**ITEM 1 CONNECTOR VARIANT TABLE**

LENGTH	SUPPLIER	SUPPLIER PNI	DESCRIPTION	RACELOGIC PNI
3m	RS	751-9062	MOLEX M12 to UNTERMINATED CABLE; 5 CORE 5m CABLE	751-9062
12m	RS	197-2791	LUMBERG AUTOMATION 5W M12 to UNTERMINATED 15m CABLE	197-2791

DRAWING NUMBER	RLCAB189-x	DRAWN	H.HUSSAIN	SHEET	1/1
DESCRIPTION	LASER LIGHT BARRIER CABLE				
REVISION					
ISS	DESCRIPTION	DATE	APPROVED	REDMINE	
2	ADDED VARIANT TABLE	23-10-24	SH	24100	