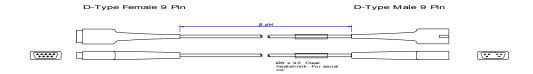


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Equipment required: Soldering iron (0060120), solder (0050012), Wire stripper (0060030), Flush Cutter (0060010), Snipe nose pliers (0060021), 'helping hand' (0060145), Heat gun (0060100).

<u>Parts list:</u> Kit and parts required.

D-Type female 9-pin Side			D-Type male 9-pin Side		
Qty	Description	Part No.	Qty	Description	Part No.
1	D-type female 9-pin kit	0010760	1	D-Type male 9-pin kit	0010759
(1)	Outer Casing	kit	(1)	Outer Casing	kit
(1)	Cable grip	kit	(1)	Cable grip	kit
(1)	□ Pin Housing	kit	(1)	• Connector	kit
(9)	- Pins	kit	(9)	- Pins	kit
1	2.5m 6-core cable	0030513 (roll)	1	Ø6 x 43mm Clear heat shrink	0032331 (roll)
1	Ø1.6 x 17mm heat shrink	0032310 (roll)	1	Ø1.6 x 17mm heat shrink	0032310 (roll)
1	Ø6 x 10mm heat shrink	0032321 (roll)	1	Ø6 x 10mm heat shrink	0032321 (roll)



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ASSEMBLY OPERATIONS

- 1. Pre Heat soldering iron temperature to 240°c.
- 2. Collect all required parts and equipment listed above.
- 3. Cut a 2.5 metre length of standard 6-core cable. Shown below.

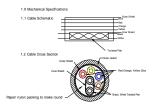


Fig 1.

D-Type female 9-pin side:

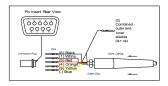


Fig 2.1

- 1. Feed outer casing, cable grip and \emptyset 6 x 10mm heat shrink (black) over end of cable.
- 2. Strip 20mm off outer jacket of cable to reveal coloured wires, outer shield, and nylon/paper wire packing.
- 3. Cut all packing and blue wire to the base.
- 4. Strip 20mm off inner jacket to reveal black and white wires and the inner shield.
- 5. Twist outer and inner shields together.
- 6. Trim ends of wires and shields to the same length.
- 7. Strip jacket of every wire 2mm to reveal copper core.
- 8. Heat \emptyset 1.6 x 17mm heat shrink over twisted inner and outer shields to cover naked wire, and solder end to the rear of one pin.
- 9. Solder each of the 5 wires to the rear of separate pins.
- 10. Clamp cable grip approximately 2mm from the end of the outer jacket.



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- 11. Heat Ø6 x 10mm heat shrink firmly over cable grip and beginning of wires.
- 12. Insert pins into correct locations (as shown in fig 2.1) and push firmly into place.
- 13. Push outer casing over cable grip and wires to fit around the pin housing.

D-Type male 9-pin side:

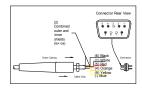


Fig 2.2

- 1. Feed Ø6 x 43mm (clear) heat shrink, outer casing, cable grip and Ø6 x 10mm (black) heat shrink over end of cable.
- 2. Strip 20mm off outer jacket of cable to reveal coloured wires, outer shield, and nylon/paper wire packing.
- 3. Cut all packing and blue wire to the base.
- 4. Strip 20mm off inner jacket to reveal black and white wires and the inner shield.
- 5. Twist outer and inner shields together.
- 6. Trim ends of wires and shields to the same length.
- 7. Strip jacket of every wire 2mm to reveal copper core.
- 8. Heat \emptyset 1.6 x 17mm heat shrink over twisted inner and outer shields to cover naked wire.
- 9. Solder ends of every wire and shields to the correct positions on the rear of the connector.
- 10. Clamp cable grip approximately 2mm from end of outer jacket.
- 11. Heat \emptyset 6 x 10mm heat shrink firmly over cable grip and beginning of wires.
- 12. Push outer casing over cable grip and wires to fit around the pin housing.

TESTING

- 1. Attach D-type male 9-pin side to a test cable then test box connector marked 'J'.
- 2. Attach female 9-pin side to a Criticare finger probe.
- 3. Check display is showing correct characteristics as shown below. (At correct switch positions)

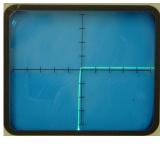


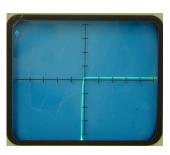
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Pos 2. LED

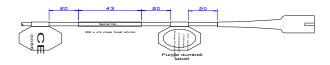
Pos 3. IR

Pos 4. Detector

- 4. 'Play' with wire at connections to see if any change in the display (i.e. flickering etc).
- 5. If there is any movement of signal, the extension wire must be taken apart and all connections checked and re-soldered. Then tested again until results are satisfactory.
- 6. Check the cable is of correct quality standard. (See VM/COP/30.11 for details).
- 7. Connect male 9 pin side to a test lead then a CSI 504 monitor and attach probe on finger to check SpO₂ level. (Ideal reading 95-100.)

Labelling

- 1. Labels: to be attached facing upwards as looking at the top of the probe.
 - 1 x CE Label
 - 1 x Serial no. Label
 - 1 x Purple Criticare dumbbell Label



Quality Assurance (QA)

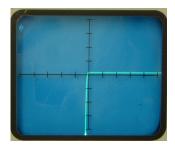
- 1. Attach D-type male 9-pin side to a test cable then test box connector marked 'J'.
- 2. Attach female 9-pin side to a Criticare finger probe.
- 3. Check display is showing correct characteristics as shown below. (At correct switch positions)



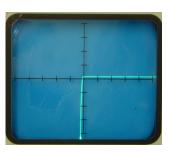
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- 8. Fill and sign attached paperwork.
- 9. Test 10 % of batch on DL3000 simulator.
- 10. Log all results on compatibility sheet.

Packaging

- 1. Visually check all labels are attached properly
- 2. Using a twist tie (bunny clip) wrap the cable and place in a small blue Viamed plastic box, ensuring the cable is inserted in a neat and tidy presentable manor.
- 3. Place a serial number sticker (supplied with the batch) on the front face of the box.
- 4. Place a packed and tested sticker (also containing initials of the individual who is packing) on the right hand side top left corner of the box. Do not close box.

Final QA

- 1. Final inspection. Visually ensure cable sit neatly within the box and is in a presentable state.
- 2. Boxes are ready to stock in stores.