

COMPANY OPERATING PROCEDURES

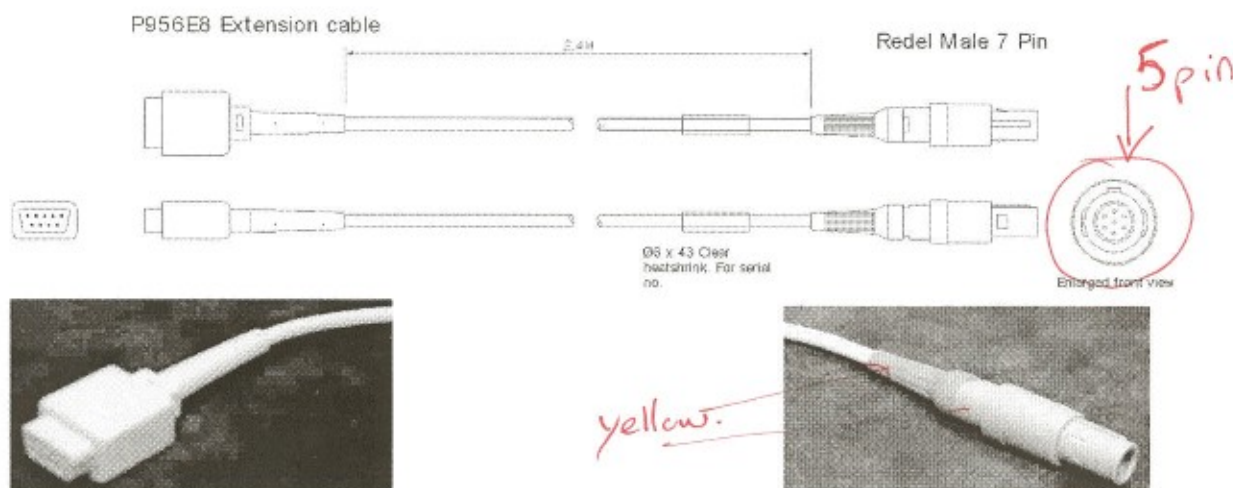
0019618 BCI P961E8

VM3/COP/33.09

Date: 17-Dec-01

Revision date: 22-Jul-04

Issue: 3



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

Parts list: Kit and parts required. (Continued over page)

D-Type female 9-pin Side			Redel male 7-pin Side		
Qty	Description	Part No.	Qty	Description	Part No.
1	D-type extension cable (Female side)	0019568	1	Redel male 7-pin kit	0030795 0030785 Kit
			(1)	Sleeve	Kit
			(1)	Collett	Kit
			(1)	Connector Pin	Kit
			(1)	Outer Sleeve	Kit
			(1)	Strain Relief (orange)	0030794 0030786
			1	Ø6 x 43mm Clear heat shrink	0032331 (roll)
			1	Ø6 x 10mm heat shrink	0032321 (roll)
			1	Ø1.6 x 17mm heat shrink	0032310 (roll)

Dwg from CST

VIAMED

SpO₂ Extension Cable Assembly

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001998

P999E8

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ASSEMBLY OPERATIONS

1. Pre Heat soldering iron temperature to 240°C.
2. Collect all required parts and equipment listed above.

D-type female 9-pin side:

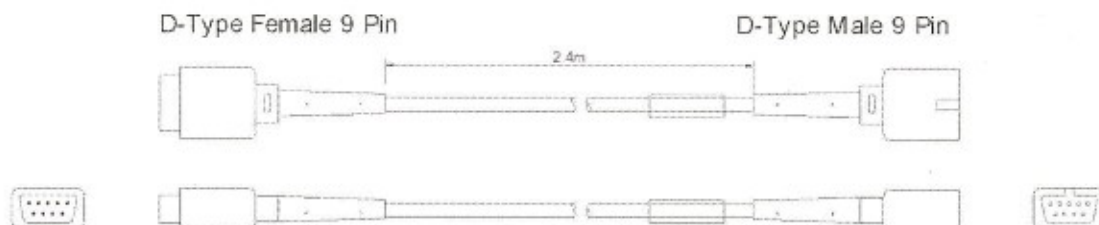


Fig 2.1. 0019568 Extension Cable.

1. The 0019568 cable is already assembled. The female side does not need to be modified, but the male side needs to be cut off ready for the Redel male 7-pin connector to be fitted.

Redel male 7 pin side:

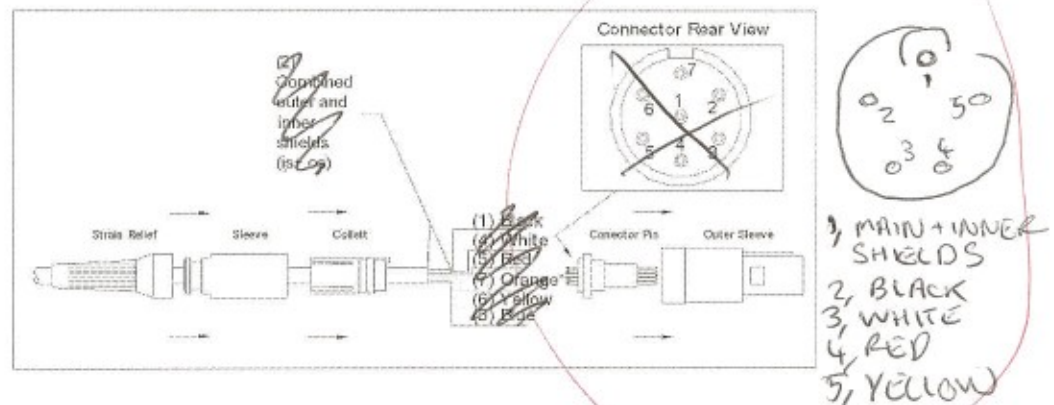


Fig 2.2

1. Feed Ø6 x 43mm (clear) heat shrink, strain relief, sleeve, collett, Ø6 x 10mm (black) heat shrink over end of cable. *x no need.*
2. Strip 10mm off outer jacket of wire to reveal coloured wires, outer shield, and nylon/paper wire packing.
3. Cut all packing to the base.
4. Strip 10mm off inner jacket of wire- to reveal black and white wires and the inner shield.
5. Twist outer and inner shields together.
6. Trim (tidy) ends of all wires and shields to the same length.

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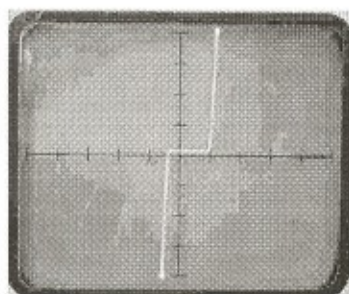
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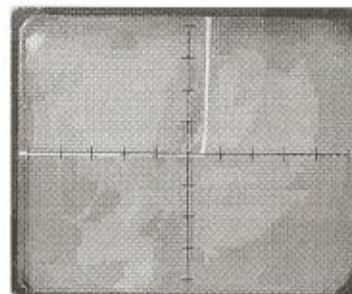
7. Strip jacket of every wire 2mm to reveal copper core.
8. Apply small amount of solder to ends of each wire and shields.
9. Heat Ø1.6 x 7mm heat shrink over twisted shield pair to insulate.
10. Solder wires and paired shields to the rear of the connector pins as shown in fig 2.2.
11. Push collet up to the connector pin, and screw the sleeve into the outer sleeve.

TESTING

1. Attach the Redel side to a test lead and then the test box connector marked 'A'.
2. Attach D-type side to a BCI finger probe.
3. Check display is showing correct characteristics as shown below. (At correct switch positions)



NB: Gap to be at bottom of display
Position 2. IR, LED.



Position 4. Detector

4. If the gap is at the top of the screen then the LED is wired incorrectly.
5. 'Play' with wire at connections to see if any change in the display (i.e. flickering etc).
6. 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.
7. Check the cable is of correct quality standard. (See VM/COP/30.11 for details). ~~x~~
8. Connect Redel 7-Pin side to a BCI 71000A2 portable 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
 - 1x Orange / ~~Brown BCI Label~~

5 pin

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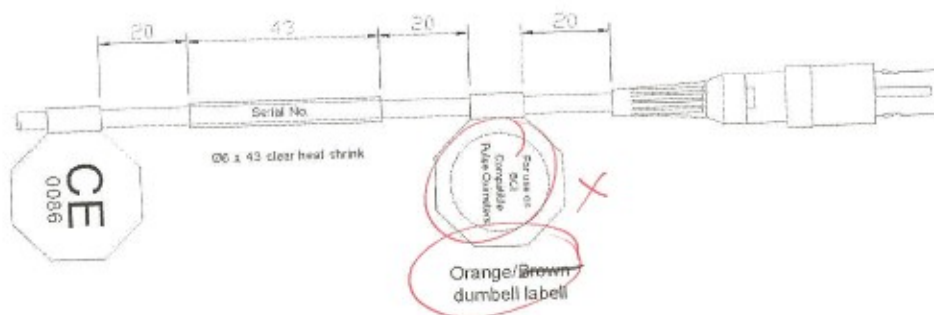
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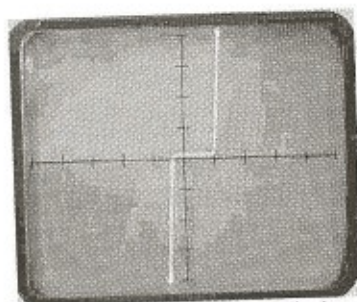
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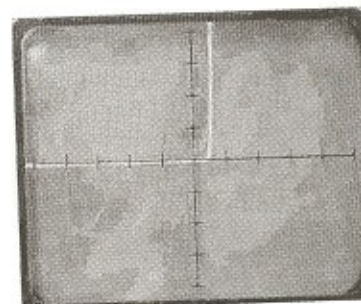


Quality Assurance (QA)

1. Attach the Redel side to a test lead and then the test box connector marked 'A'.
2. Attach D-type side to a BCI finger probe.
3. Check display is showing correct characteristics as shown below. (At correct switch positions)



NB: Gap to be at bottom of display
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Position 4. Detector

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5. 'Play' with wire at connections to see if any change in the display (i.e. flickering etc).
6. 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.
7. Check the cable is of correct quality standard. (See VM/COP/30.11 for details).
8. Connect Redel 7-Pin side to a BCI 71000A2 portable monitor and attach probe on finger to check SpO₂ level. (Ideal reading 95-100.)
9. Fill and sign attached paperwork.
10. Test 10 % of batch on DL3000 simulator.
11. Log all results on compatibility sheet.

5pin

Packaging

1. Visually check all labels are attached properly

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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 manner.
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.