# VIAMED

## COMPANY OPERATING PROCEDURE
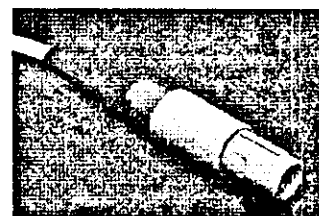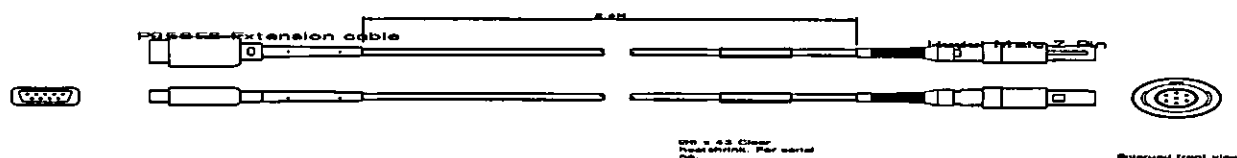
# 0019618     BCI Extension Cable    P961E8

Date: 06/02/08              Revision Date: 06 February 2008              Issue: 1







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 | | | Redel male | | |
|---|---|---|---|---|---|
| 9-pin Side | | | 7-pin Side | | |
| Qty | Description | Part No. | Qty | Description | Part No. |
| 1 | D-type extension cable (Female side) | 00956E8 | 1 | Redel male 7-pin kit | 0030795 |
| | | | (1) | BACK NUT | Kit |
| | | | (1) | COLLET | Kit |
| | | | (1) | PINS | Kit |
| | | | (1) | BARREL | Kit |
| | | | (1) | STRAIN RELIEF | ORANGE 0030796 |
| | | | 1 | 6 x 43mm Clear heat shrink | (roll) |
| | | | 1 | 6 x 10mm heat shrink | (roll) |
| | | | 1 | 1.6 x 17mm heat shrink | (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.
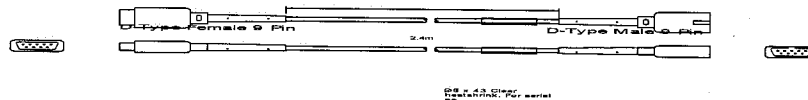
D-type female 9-pin side:

Fig 2.1.  00956E8 Extension Cable.

1. The 00956E8 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:

RCAR VIEW

1, BLACK
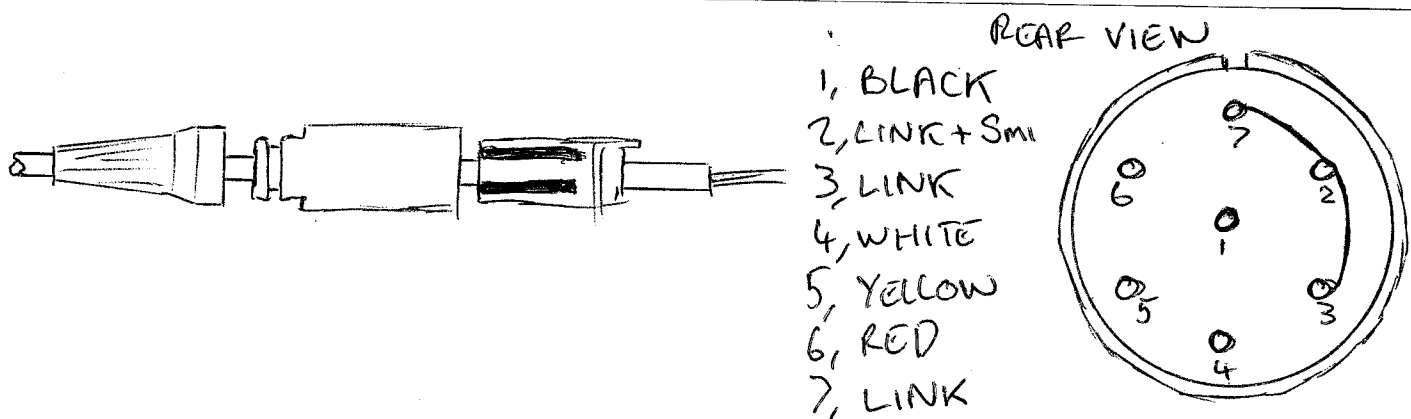2, LINK + Smi
3, LINK
4, WHITE
5, YELLOW
6, RED
7, LINK

Fig 2.2

1. Feed   6 x 43mm (clear) heat shrink, strain relief, sleeve, collett,   6 x 10mm (black) heat shrink over end of cable.
2. Strip 20mm 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 20mm off inner jacket of wire- to reveal black and white wires and the inner shield.

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5.    Twist outer and inner shields together.
6.    Trim (tidy) ends of all wires and shields to the same length.
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   1.6 x 17mm 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.    Place   6 x 10mm heat shrink over base of coloured wires and outer jacket and heat to shrink firmly around.
12.    Push collett up to the connector pin, and screw the sleeve into the outer sleeve.
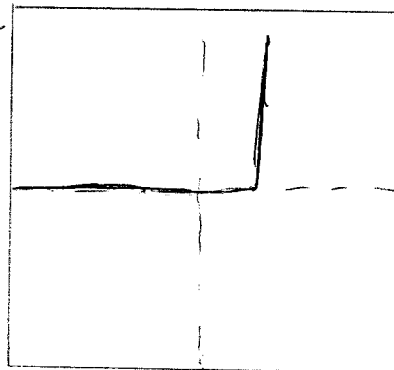
## TESTING

1.    Attach P861 to the D type connector, the Redel connector to a test lead and the test box connector marked 'A'.

3.    Check display is showing correct characteristics as shown below. (At correct switch positions)


Pos 1
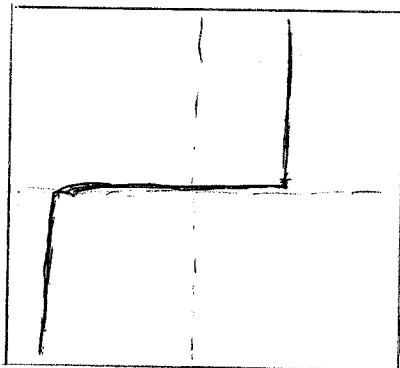

Pos 4

4.    THE SCOPE SHOULD DISPLAY AS ABOVE
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 TEST LEAD to a BCI 71000A2 portable monitor and attach probe on finger to check $SpO_2$ 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

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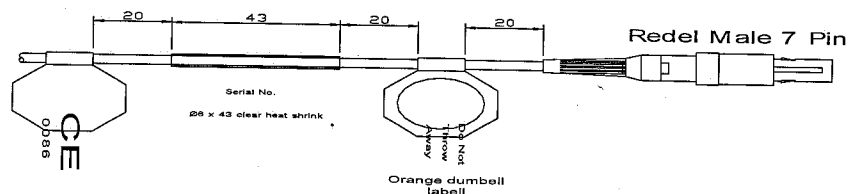## 0019618    BCI Extension Cable    P961E8
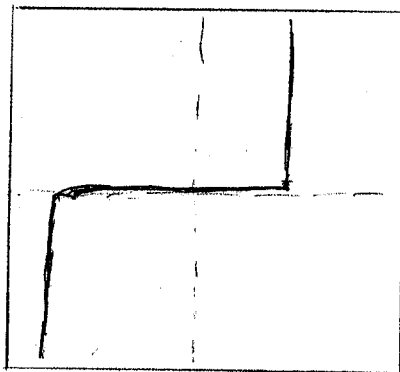
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1x Orange 'Do Not Throw Away' Label (correct one of two is dependant of country unit is be



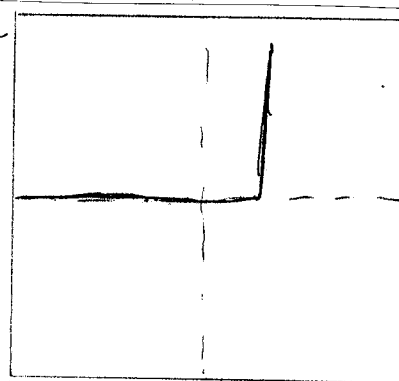Redel Male 7 Pin

Orange dumbell labell

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### Quality Assurance (QA)

1. Attach P546E8 9-Pin side to a Redel to D type adapter and the test box connector marked 'A'.
2. Attach Redel 7-pin side to a BCI finger probe.
3. Check display is showing correct characteristics as shown below. (At correct switch positions)



4. THE SCOPE SHOULD DISPLAY AS ABOVE

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 TEST CABLE to a BCI 71000A2 portable monitor and attach probe on finger to check SpO$_2$ level. (Ideal reading 95-100.)
9. Fill and sign attached paperwork.

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### 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 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.