9054 pH connector Mounting instruction

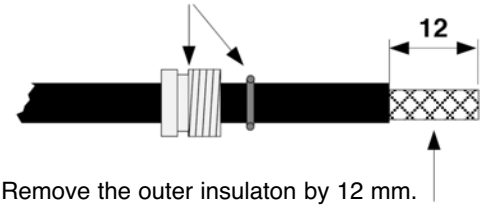
A good care installing the cable and connectors is a warranty for a long life and reliable service of your pH system monitoring. Please respect all steps.

The specific cables 9060 (coaxial) and 9061 (tri-axial) for pH or ORP measurements have a high insulation resistance. This means all the system needs a high electric isolation between the centre wire and the shield; any humidity presence will disqualify the measurement.

Please note that a short circuit will induce a display of pH 7 (potential 0 mV).

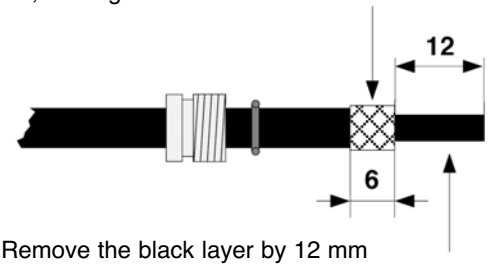
9060 coaxial cable preparation

1) Slide the white threaded nut and the o-ring onto the cable.

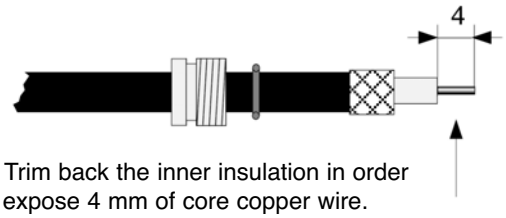


2) Remove the outer insulaton by 12 mm.

3) Fold back the shield (copper mesh), trim it, leaving 6 mm for electrical contact.

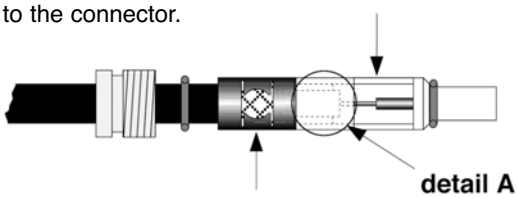


4) Remove the black layer by 12 mm (it is a magnetic insulator, it should never be in contact with the internal connector).



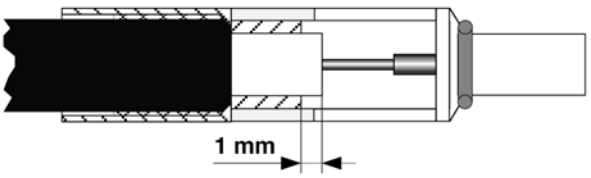
5) Trim back the inner insulation in order to expose 4 mm of core copper wire.

6) Apply solder on the core wire and solder it to the connector.

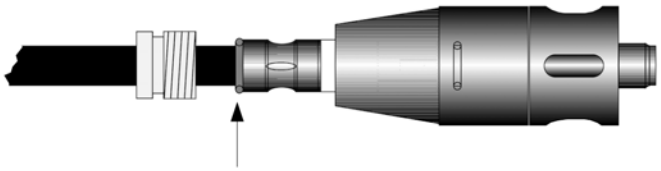


7) To insure a high insulation resistance and prevent problems due to humidity, it is necessary to leave 1mm of the inner insulation visible.

Detail A



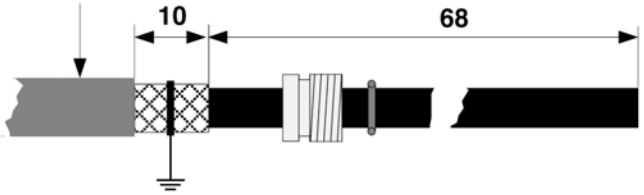
To assure a high insulation resistance and prevent troubles due to humidity, it is necessary to let 1 mm of the inner insulation visible.



8) Set up the o-ring: no mesh from the shield should be visible. Screw the white thread nut on to the connector housing.

9061 tri-axial cable preparation

Prepare this cable as above.
The difference between 9060 and 9061 is a supplementary shield with an external insulation.
They should keep outside the connector.
The external shield should be connected to ground by side the pH metre.



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28-07-2008 160 M1 01 D

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