

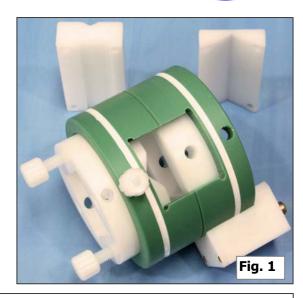
## Miniature Helmholtz coil

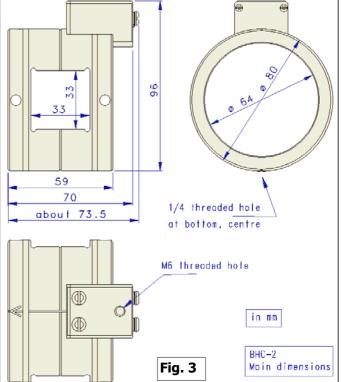
Designed to check probes and meters at the field and the lab, it is also useful to many other purposes

## Ferronato® - BHC-2

- To 200 μT, steady way. To 400 μT intermittently.
- Of 78 mm in mean (electrical) diameter.
- There is a version for high frequencies: the BHC-2RF.
- Constructed in strong plastics: Polypropylene for the body and POM ("Delrin") for the terminal box and the Probe Kit.
- It can be supplied in two configurations:
  - a) BHC-2 & Probe Kit: As in Fig. 1. With an optional set of internal pieces to hold and keep centred a wide range of magnetic probes of one and three axes, with any of their axes aligned along the magnetic field.
  - b) **BHC-2**: As the photo in Fig. 2. The body with the coils and the terminal box.







**Specifications** 

Specifications	
Field/Current ratio	$1 \mu T/1 \text{ mA } \pm 1 \text{ %}.$
Maximum current	200 mA steady way / 400 mA in periods of some few seconds.
Maximum field	200 μT steady way / 400 μT in periods of some few seconds.
Resistance, at 20 °C	$10.5 \Omega \pm 10 \%$ . Including the fuse.
Inductance, at 120 Hz	755 μH ±2 %.
Overcurrent protection	There is an in-series self re-settable fuse to avoid winding overheating.
Field homogeneity	±0.1 % in a cylindrical volume of 14.5 mm in diameter x 14.5 mm in length.
Percentages are respect	±1 % in a cylindrical volume of 22.5 mm in diameter x 22.5 mm in length.
to the centre.	±5 % in a cylindrical volume of 33.5 mm in diameter x 33.5 mm in length.
Connector	Two M4 brass screws.
Fixing holes	A 1/4" threaded hole (as for tripod) at the bottom. A M6 threaded hole on top.
Body dimensions	Ext. diameter: 80 mm; Int. diameter: 64 mm; Length: 59 mm. See Fig. 3.
Weight	111 grams, just the coils as in Fig. 2, without the probe holding kit.

<sup>-</sup> These specifications are subject to minor specifications in future -

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