



SQUID Packaging and Wiring

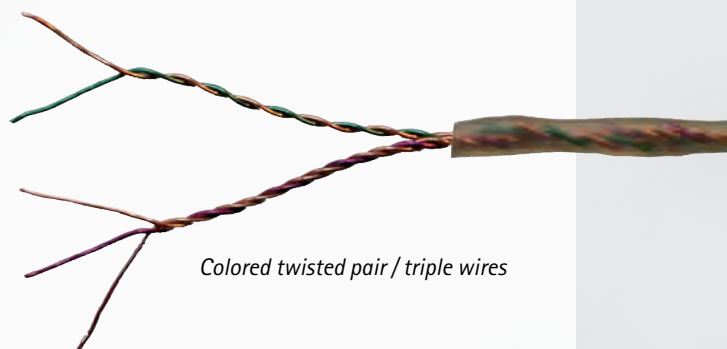
MAGNICON

physical research and instrumentation

Packaging and wiring for SQUID sensors

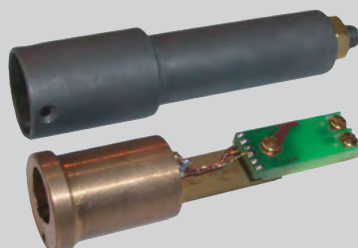


- Compact chip carrier with superconducting screw terminal
- Niobium shielding can with top and bottom access to input coil
- Reliable plug connections for easy handling
- Cryocable with stainless steel braided hose and vacuum-tight top flange



Colored twisted pair / triple wires

A reliable solution from top to bottom





Technical Data

General

- all packaging and wiring solutions are customizable on request

CAR-1 chip carrier

- material fibre reinforced plastic FR4
- outer dimensions 17 x 7.1 x 3 mm³
- screw terminal for superconducting wire connection to sensor input
- special plastic screws if ultimate noise performance is required
- 12 soldering pads for sensor connection
- suitable for all sensor types on 3 x 3 mm² substrates
- includes 1.5 mm drilling for easy and secure mounting

NC-1 Niobium shielding can

- for use with CAR-1 chip carrier
- material Niobium/Brass
- maximum outer diameter 12.7 mm
- length 56 mm
- shielding factor $\approx 10^6$
- top and bottom feedthrough for superconducting wires
- plug socket for easy sensor connection
- male and female screw threads for flexible mounting

CC-1 cryocable

- braided stainless steel sleeve for em shielding and stability
- vacuum tight top flange with 24 pin plug socket for XXF-1 and SEL-1 SQUID electronics
- top flange also available as KF25 and KF40 versions
- available for up to three channels per cable
- choose Cu or Alloy 30 as wire material
- includes plug connector(s) for easy connection to NC-1 shielding can
- available in customized lengths up to 2.5 m

Colored twisted pair / twisted triple Cu wires

- wire diameter 0.15 mm
- available in customized lengths up to 2.5 m
- four different wire colors to reduce error probability
- ready-to-use wiring sets for Magnicon SQUID electronics