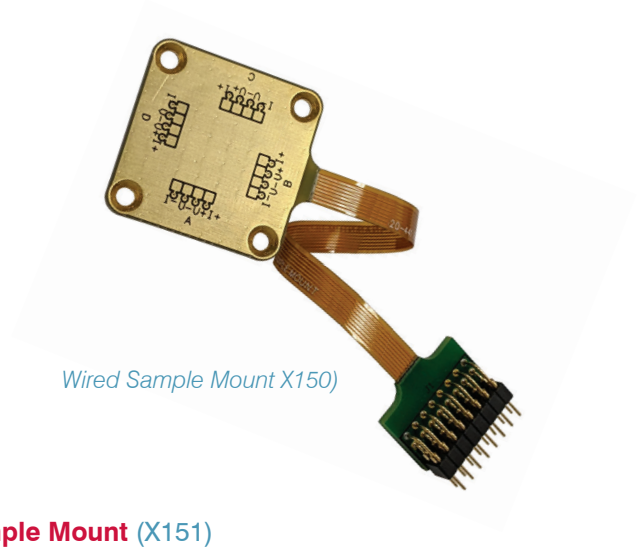
Wired Sample Mounts

Optical measurements often require electrical contact (for gating, transport measurements, and high-frequency excitation) while focusing a microscope objective on the sample. Standard chip carriers are convenient because they allow you to use wire bonds to make contact to your sample and maintain a low optical working distance. However, standard chip carriers do not provide adequate thermal contact to maintain sample temperature. Both the Wired Sample Mount and RF Sample Mount provide a gold-plated copper plane that is thermally connected to the X132 Thermal Link plate.



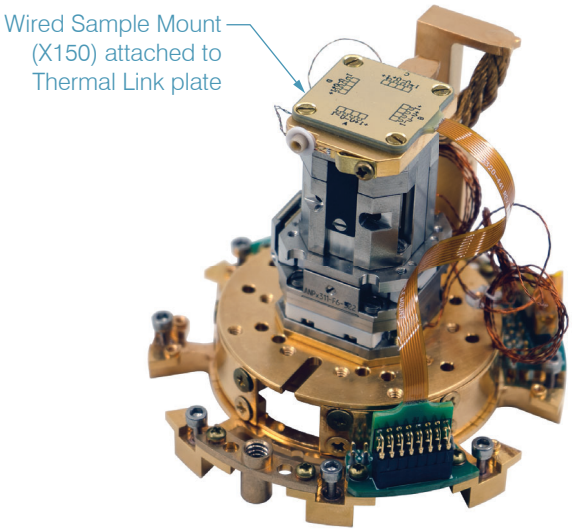
Wired Sample Mount X150)

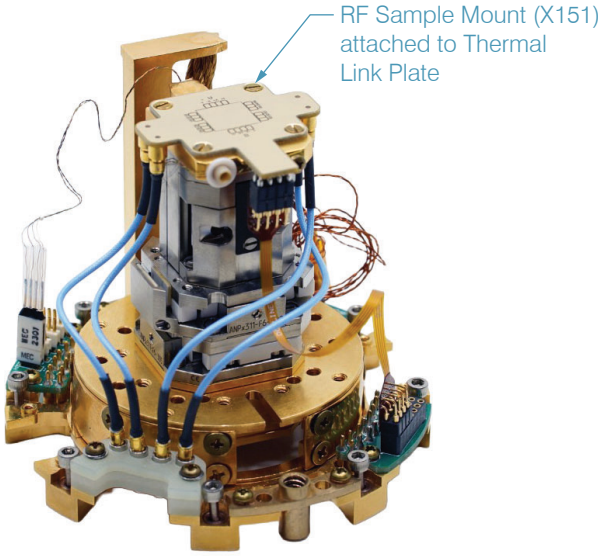
Wired Sample Mount (X150)

The Wired Sample Mount (X150) features an integrated flexible circuit which carries the 16 wires to the pod flange. The Wired Sample Mount is designed to be used with OptiCool's Standard Sample Wiring (X300). The Wired Sample Mount Kit includes 4 Wired Sample Mounts, the mating PC board that goes on the Pod flange, and the associated mounting screws.

RF Sample Mount (X151)

The RF Sample Mount (X151) features 4 flexible coax cables for 4 RF sample lines as well as an integrated flexible circuit carrying 8 DC wires to the pod flange. The RF Sample Mount is designed to be used with the OptiCool's RF coax Wiring (X310) for its 4 coax connections and the Standard Sample Wiring (X300) for its 8 DC wires. The RF Sample Mount Kit includes 2 RF Sample mount PCBs, 4 coax lines and 2 DC flexible circuits.





* Wired Sample Mount (X150) Specifications:	
• Compatible with full OptiCool temperature and magnetic field range	
• Mounts to X132 Thermal Link Plate and compatible with X140 Rapid Thermal Stage	
• Electrical connections:	• 16 connections (8 pairs) • Pads for wire bonding or soldering • Pads arranged in 4 four-probe sets • Automatic connections from pads to OptiCool front panel (no manual wiring)

* RF Sample Mount (X151) Specifications:	
• Compatible with full OptiCool temperature and magnetic field range	
• Mounts to X132 Thermal Link Plate	
• Electrical connections:	• 4 Coax connections • 8 DC connections • Pads for wire bonding or soldering • RF Pads arranged with one connection to center pin and two to coax shield • DC Pads arranged in 2 four-probe sets • Automatic connections from pads to OptiCool front panel (no manual wiring)