

FLEXIBLE THERMAL LINKS

Space Dynamics Laboratory (SDL) has the facilities and experience to meet the most stringent link requirements. SDL thermal links have been selected for NASA's JWST program. Full support services include thermal and dynamic testing and certification at cryogenic temperatures.

SDL's Flexible Thermal Links

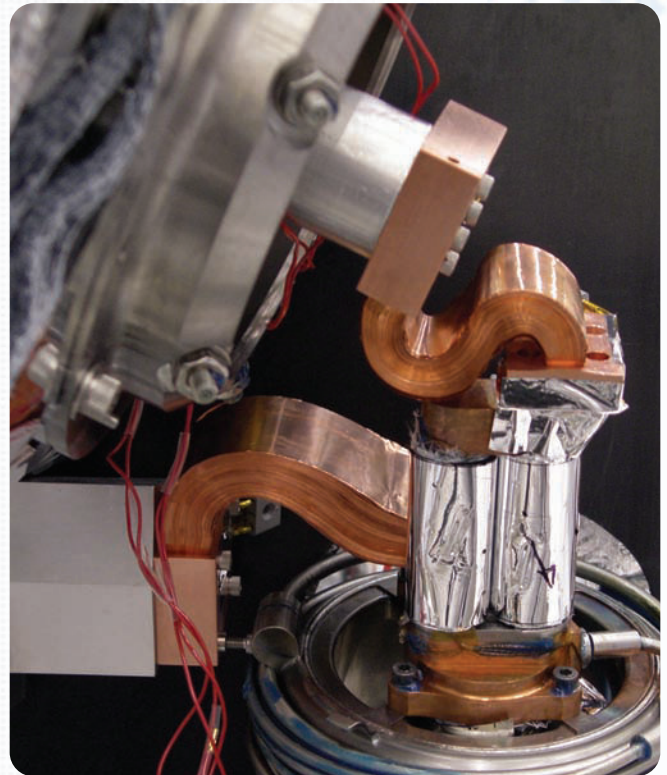
- Eliminate :** Joining materials including solder
 - Internal contact resistance
 - Wicking into braid/foil
 - Outgassing
- Maximize :** Thermal conductance
 - Dynamic/mechanical flexibility
- Provide :** High Performance
 - Affordable Solutions



Appropriate material types and configurations are available based on customer-specific thermal and mechanical requirements for conductance, mass, and flexibility

SPECIFICATIONS

- CONDUCTANCE :** 0.01 - 10W/K
- STIFFNESS (flexibility) :** Typically < 1 N/mm all axes
- MASS :** 5g - 10kg
- MATERIAL :** Copper, Aluminum, etc.
- TYPE :** Foil or Braid
- TRANSFER LENGTHS :** 2mm - 2m



SDL flexible thermal links attach the focal plane assembly to the cryo-coolers on the GIFTS Instrument



The SDL flexible thermal links are configurable to almost any desired shape and end-block configuration.



Space Dynamics
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