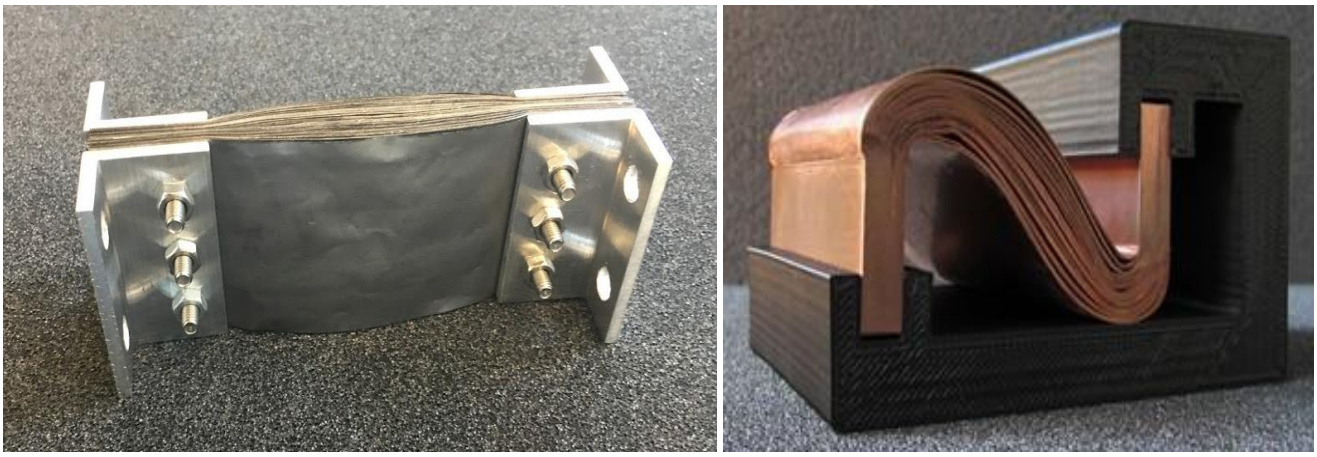
AZIMUT SPACE

Datasheet

# Flexible Thermal links

**Highly performant and custom-made flexible thermally conductive links made of Copper, Aluminum or Pyrolytic Graphite Sheets (PGS) composite assembly for multiple purposes, such as vibration insulation, force relief or thermoelastic compensation.**

- Thermo-mechanically optimized to meet all critical requirements
- Tailored configuration for your application: material, shape, size, thermal performance
- In-house verification and qualification testing campaigns
- For a wide range of applications
- Linear Stiffness measurements
- Cleaning processes and storage services
- Volume production possible

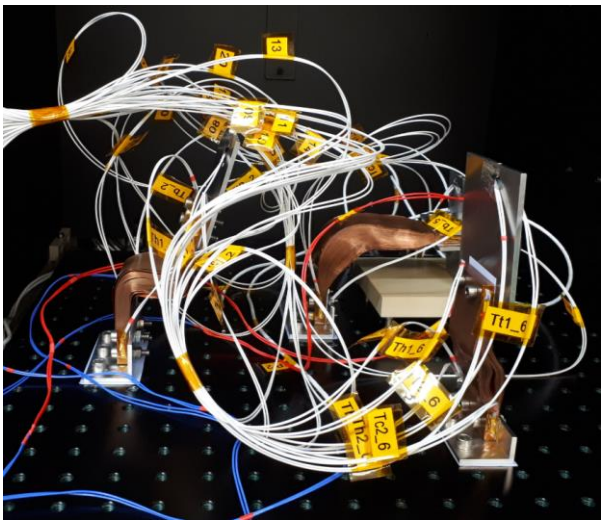


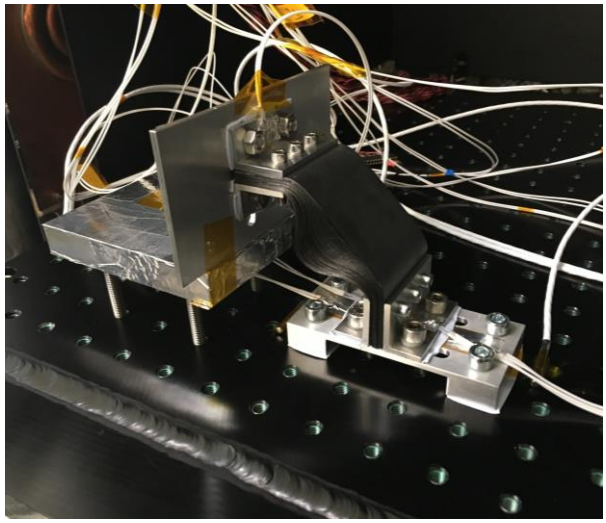
Copper and PSG thermal straps

## Specifications:

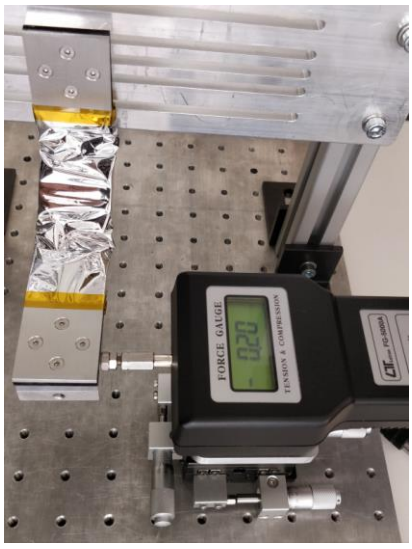
| | PGS | CU |
|---|---|---|
| Materials of the strap | Pyrolytic Graphite 99.9 % | Copper Cu-OFE 99.99 % |
| Density [kg/m³] | 1800 | 8900 |
| Conductivity [W/mK] | Up to 1350 | 386 |
| Dimensions [mm] | Entirely customizable for customer's requirements | |
| Mounting interfaces | Custom aluminum brackets with or without bolt patterns | Custom copper endings w/ or w/o bolt patterns |
| Range of GL [W/K] | 0.1 to >5 | |
| Measured Z-parameter [GL/kg] | 9.6 | 5.6 |
| Technology Readiness Level (TRL) 8 | | |
| AL (5N) Thermal Straps in development (2020-2021) | | |

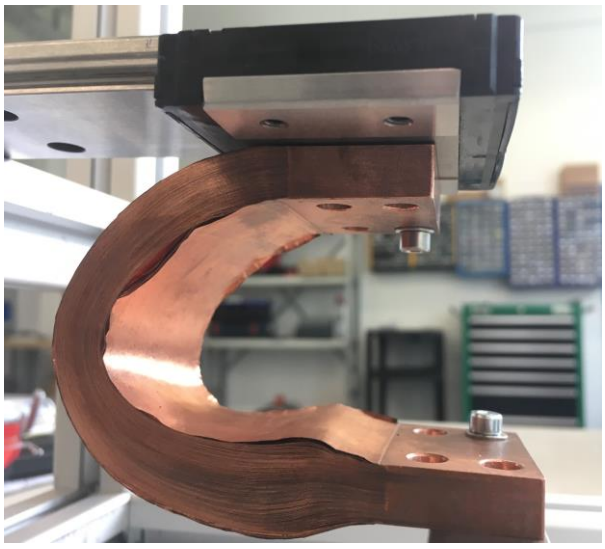
# Custom, high-performance and versatile flexible thermal links



In-house TVAC verification test campaigns



Linear/Angular Stiffness measurements

## CUSTOMERS AND PARTNERS

ESA, DLR, Thales Alenia Space, AIRBUS D&S, OHB, TNO, Sonaca

## DESIGN SOFTWARE

Solidedge, Nastran, Hyperworks, ESATAN

## TEST FACILITIES

Thermal Lab with Medium thermal vacuum chamber;
Thermal cycling chamber for life cycling at cryogenic levels
Vacuum Oven for process and bake-out
Structural Lab with fatigue, material and static testing

## LOCATION

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