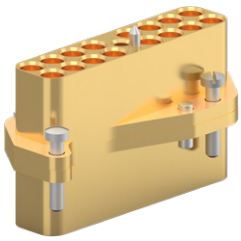
Precision cryogenic interconnects for quantum computing excellence

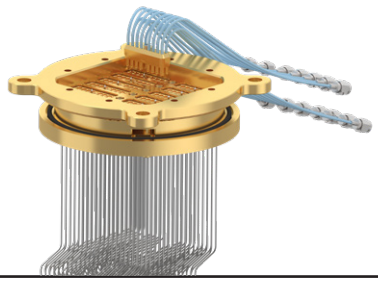
With decades of expertise in cryogenic applications for the space industry, HUBER+SUHNER brings proven reliability and engineering excellence to the quantum computing sector. Our deep knowledge in radio frequency technologies, combined with focus on high-density multicoax solutions, enables us to develop high-performance interconnects that meet the stringent demands of cryogenic environments.

Unparalleled performance for next-generation systems

Engineered for the most advanced quantum computing applications, our multicoax precision connectors for cryogenic applications ensure high-density, low-loss, and non-magnetic signal transmission from room temperature down to the lowest temperature sections.

- **Broadband excellence**: up to 20 GHz for superior signal integrity
- **Ultra-low crosstalk**: below -60 dB for minimal interference
- **Extreme density**: compact 4 mm pitch (192 channels on ISO 100)
- **Versatile coaxial materials**: Multiflex_53, SS, CuNi, CuBe, and NbTi
- **Precision phase matching**: standard absolute phase matching down to ±2 ps
- **Simplified installation and easy serviceability**: slide-on mating for quick and secure connections
- **Cryogenic stability**: engineered to minimize insertion loss and maintain consistent performance across temperatures
- **Integrated filtering and attenuation**: built-in low and high cut-off frequency IR filters and ganged attenuators





Scan QR code for more information.

Prepare for the quantum revolution.

Get in touch with our experts for customized cryogenic interconnect solutions tailored to your needs.

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