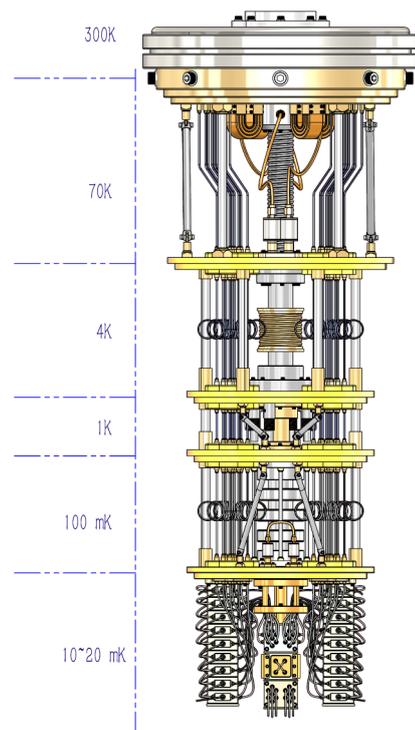
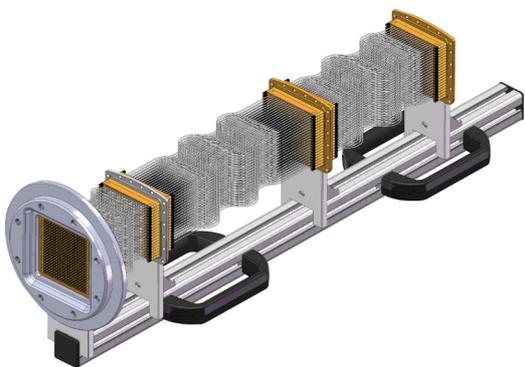


Quantum Computing Interconnect Solutions

At a Glance

XGY specializes in high-efficiency interconnect solutions tailored for cryogenic environments, specifically designed to mitigate interference in systems such as dilution refrigerators. Ensuring the stable operation of quantum computing hardware requires overcoming critical challenges, including thermal fluctuations, electromagnetic radiation, and magnetic field interference.

Relying on advanced precision manufacturing capabilities and a rich product portfolio, we provide highly customized connectivity solutions. Whether it is increasing interconnect density, miniaturizing connector footprints, or achieving multi-channel integration, XGY delivers reliable, future-oriented support.



Key Facts

Target Application

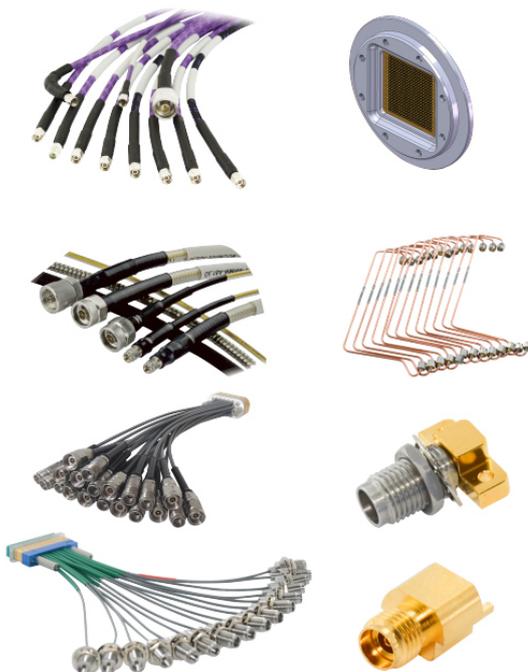
- Cryogenic Environments
- Cryogenic Systems/Dilution Refrigerators

Challenge Mitigation

- Thermal Fluctuations
- Electromagnetic Radiation
- Magnetic Field Interference

Product Overview

- PCB Connectors
- Cable Connectors
- Hermetic Feedthrough Adapters
- Adapters



Capabilities

- Precision Manufacturing
- High Customization

Interconnect Trends

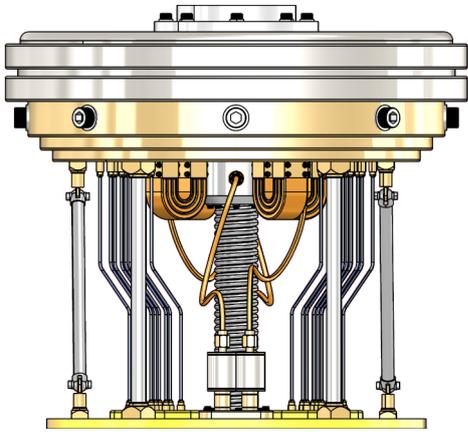
- High Density & Integration
- Miniaturization
- Future-Proof

- Attenuators
- Semi-rigid Cable Assemblies
- Semi-flexible Cable Assemblies
- Flexible Cable Assemblies



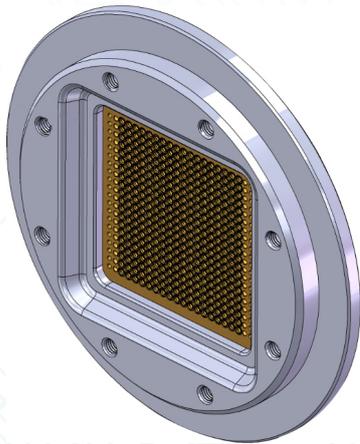
Application Examples

Cable Assemblies



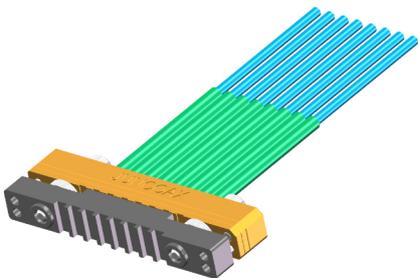
Specialty cable assemblies designed for cryogenic applications, featuring comprehensive electromechanical performance as a core advantage. XGY offers a wide range of standard specifications while providing deep customization to meet the extreme connectivity requirements of frontier fields such as superconducting systems and quantum processors.

Hermetic Flanges and Adapter Plates



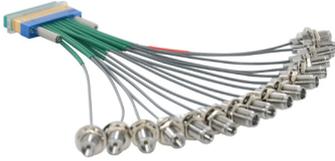
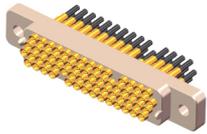
Addressing the decoherence challenges in dilution refrigerators, XGY introduces high-precision hermetic adapter flange. This ensures vacuum hermetic integrity and signal fidelity in extreme cryogenic environments.

Connectors and Adapters



High-performance nonmagnetic connector specifically developed by XGY for quantum system, combining deep cryogenic tolerance with stability in GHz-level frequency band. Suitable for precision interconnection of qubit chips and control/readout electronics, ensuring the lossless transmission of coherent state signals.

Products

Name	Picture
Semi-Rigid Cable Assembly	
Flexible Cable (Compact/Confined Space Application)	
High-Density Multi-Channel Assembly	
Micro-Coaxial Connector	
SMA Connector	
2.92mm Connector (K Connector)	
Hermetic Flange Plate Multi-pin Feedthrough	