

# Quantum Communication Waterproof Junction Box Low-Loss Agent

in this work and those that would be encountered in the literature. We believe this leads to a gentler introduction to this fascinating field, and hope that more researchers from the classical Index ...

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This plastic is soft, which means that it is malleable.

Here we report low-loss interconnects based on pure aluminium coaxial cables and on-chip impedance transformers featuring quality factors of up to  $8.1 \times 10^5$ , which is comparable with the...

Air bridges rise above the plane of a circuit and are essential elements for dense, low-crosstalk signal routing in superconducting quantum circuits, but ...

Enabling the future of quantum communication with high-performance fiber optic interconnects, DIAMOND delivers the reliability, low insertion loss, and stability required for cutting ...

These results validate our design approach and present a practical architecture for scaling superconducting quantum circuits with low crosstalk and robust qubit connectivity.

We offer our cables in a selection of different materials with low thermal conductivity and good electrical conductivity properties for different low temperature applications.

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Within Quantum Key Distribution (QKD) communications, where the accumulation of insertion loss can impede functionality, minimal loss is imperative.

However, the WAGO Gelbox's distinctive feature is that it protects the electrical installation exactly where it matters - at the connection points - without permanently encapsulating the junction boxes.

The invention introduces a method for fabricating low-loss niobium Josephson junctions which enhance quantum device performance by using niobium superconductors that are separated by an aluminum ...



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