Suzhou Talent Microwave,Inc
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# 12Pairs DC Wires Room to MXC Plate

## FISCHER Connector/ Micro D connector

**Talent high-density DC wires include sealed modules, heat sink modules, and twisted pair DC wirs. 12 pairs of twisted pair cables are woven with stainless steel to protect the enameled wires and provide shielding. Heat sink blocks are equipped on the cooling plate of the dilution refrigeration and the cold head of the pulse tube or GM refrigerator. High density DC lines can be used to provide DC signal transmission channels for superconducting quantum chips, cryogenic amplifiers, parametric amplifiers, and other cryogenic devices. Stable transmission of DC signals across temperature zones can be achieved in extremely low heat leakage environments of dilution refrigerators.**

## Product features:

- Suitable for KF40 flange, fully equipped with 24 * 4 DC channels.
- Excellent sealing performance, vacuum leakage rate ≤ 5 × 10 ^ -10 Pa · m ³/s
- Adopting a dual end design with a range from room temperature to 4K and a range from 4K to MXC.

## Typical applications:

Quantum chip power supply
Cryogenic device power supply

## From Room to 4K DC wires

| Item | Value | unit |
|---|---|---|
| Chanel | 24 channel each group， total 96 channel (4 groups max) | |
| Cable material | Copper, phosphor bronze, manganese copper | |
| Outer diameter of enameled wire | 0.79,0.10,0.114,0.127,0.152,0.178 | mm |
| Room temperature resistance | According to cable material | Ω |
| Low resistance insulation to ground | ≥1000 | MΩ |
| Hermetic flange vacuum leakage rate | ≤5× 10^-10 | Pa· m³/s |
| Room temperature hermetic connector | FISCHER | |
| 4K Connector | Micro D 25Pin | |
| Storage temperature | -5 to +85 | ℃ |

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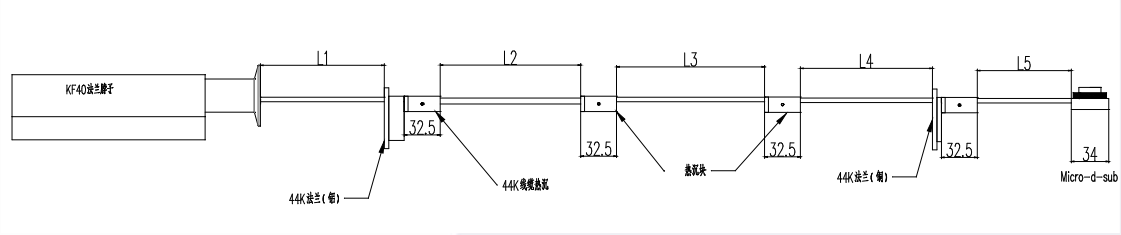
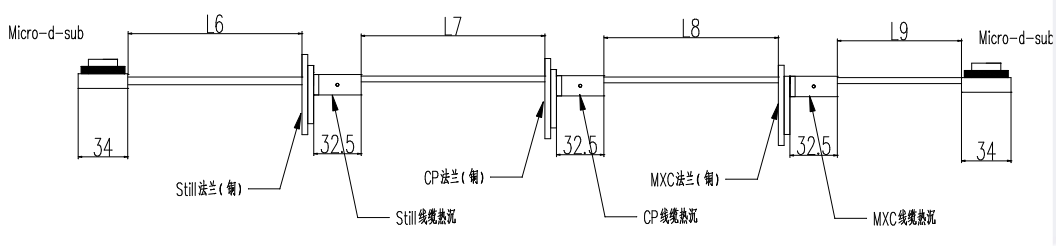
## 4K to MXC Plate:

| Item | Value | Unit |
|---|---|---|
| Chanel | 24 channel each group， total 96 channel (4 groups max) | |
| 线缆材质 | NbTi/CuNi mix或者NbTi/Cu mix | |
| Cable material | 0.79,0.10,0.114,0.127,0.152,0.178 | mm |
| Room temperature resistance | According to cable material | Ω |
| Low resistance insulation to ground | ≥1000 | MΩ |
| 4K Connector | Micro D 25Pin | |
| MXC plate connector | Micro D 25Pin | |
| Storage temperature | -5 to +85 | ℃ |

## Outline:




Room to 4K




4K to MXC