

Thermocouple wire Type KAP301

Radiation Resistant, High Temperature thermocouples type K and N

Radiation resistant Kapton insulated thermocouple wires are available from Allectra ex stock.

These KAP301 cables have an improved quality, the insulation withstands temperatures up to 300°C, the use in radiation environment is possible.

- Thermocouple wire Type K

Specifications

- Thermocouple wire Type N

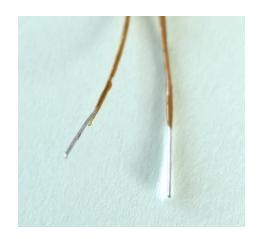
301-KAP-TCK 301-KAP-TCN



Various types of KAP301 wires



Double insulated Thermocouple wire



The glass marker for the positive wire is well visible here

301
UHV (<10 ⁻¹⁰ mbar)
$10^9 \text{ Rad} = 10^7 \text{ Gy}$
4K 300°C (insulation)
Type K: -270+1300°C Type N: -270 +1300°C
Class 1 according DIN/IEC 584 +/- 1.5K (@ 40375°C) +/-0.004 x t (@ 375750°C)
Twisted pair wires, with additional outer insulation
2x 0.25mm Thermocouple wires Positive wire with glass marker
0.95mm
7.5 x diameter (long term)
>12KV DC in vacuum (wires to an external ground)

These thermocouple cables are offered on spools with 1m/ 5m / 10m / 50m / 100m or custom lengths.

For temperature measurement, the two wires just have to be drilled together to form the thermocouple. Spot welding is also possible.

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allectra GmbH, Traubeneichenstr. 62-66, D-16567 Schönfliess, Tel: +49-(0)33056 787 78-0 Fax: -5, e-mail: info@allectra.com allectra Ltd, Bluebell Business Estate, Sheffield Park, TN22 3HQ, UK T:+44 1825 721 900, F: +44 1825 723 872, uk@allectra.com allectra GmbH France, 32 rue Principale, F-56500 La Chapelle-Neuve, T: +33 297 272307, F: +33-297 272 307, fr@allectra.com allectra GmbH Italy, Via delle Grotte, 482, IT-00067 Morlupo (Roma) T: +39 06 9070873, F: +39 06 9070873, It@allectra.com