

301-KAP-TCK



Radiation resistant thermocouple wire Type K Up to 300°C including insulation

Conductor: Thermocouple material, Type K, "Chromel / Alumel" 2 x 0.25mm		~2x AWG30
Diameter single conductor with insulation	(+)	0.40mm (with fibreglass tracer)
	(-)	0.35mm
Diameter of pair		0.75mm
Total Diameter of twisted pair wire, with add. outer insulation		0.95 mm
Area		0.05mm ²
Resistivity @20°C	(+)	14.3 kOhm/km nom.
	(-)	5908 Ohm/km nom.
Insulation		Kapton (PFAS free)
Disruptive discharge Voltage		>12 KV DC
Max. temperature (insulation)		300°C
Radiation resistant up to		1000 Mrad
Weight		1.6 g/m
Vacuum Level		typ. 10 ⁻¹² mbar is achievable
Measurement range		-270 ... +1300°C
Thermoelement class		Class 1(DIN /IEC 584) +/- 1.5K (@ -40...375°C) +/-0.004 x t (@ 375...750°C) (Hysteresis effects not included)

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