

Heating hoses for the automation technology

KR FOR ROBOT SYSTEMS



This heating hose was specially developed for use on industrial robots. Due to the strong dynamic load caused by the use of the robot, the hose is equipped with a special and particularly strong, waterproof outer jacket, as well as a special protective element for the internal temperature sensor, in addition to other special measures.

For KLETTI's heating hoses, a high-quality PTFE or PFA (only up to 100°C) inner hose is usually used. These inner pressure hoses, with different wire coverings, are used for special applications where high demands are made on the pressure load capacity of the heating hoses.

- Robust design
- Silicone free
- Suitable for use on robots

TECHNICAL DATA

Operating temperature	Max. 100 °C / 200 °C, others on request
Nominal voltage	Standard 230 VAC, (12 – 600 VAC possible)
Nominal width	NW 3 – 40, others on request
Pressure hose	PTFE core with protective braiding (see data sheet "Pressure hose") PFA core with protective braiding (up to 100°C) (see data sheet "Pressure hose") Others on request
Connection fittings	Customized
Test voltage	High voltage test up to 2000 VAC
Heating element	Manufactured in accordance with the DIN standard, insulated with PFA or PTFE depending on the version and covered with nickel-plated protective braid, moisture-proof (only up to 250 °C)
Temperature sensor	Pt-100, Pt-1000, Ni-120, NTC (-100K), or thermocouple (type K, type J), others on request
Thermal insulation	Heat resistant aramid thermofleece, silicone foam (depending on version)
Outer protection	Especially for robot application: corrugated tube (different versions)
Power supply line	1,5 m with 7-pin circular plug (standard), compatible with our temperature controlling devices, others on request
Control wires	According to customer request
End Caps	Silicone-, EPDM rubber caps or hard caps with traction relief
Manufactured length	Up to 46m, other lengths on request
Certification	CE-mark, UL- CAN/CSA certification on request
Ordering data	See technical questionnaire
Protection class	IP 54 or IP65 (depending on version)
Einsatztemperatur	Max. 100 °C / 200 °C, höhere Temperaturen auf Anfrage

ELECTRICAL DATA

Heating performance W/m at 230 V AC; Tolerances +5 % / -10 %

Nominal width DN (NW)	4	6	8	10	12	16	20	25	32	40	50
Temperature range max. 100 °C	70	90	110	130	150	180	240	300	350	400	500
Temperature range max. 200 / 250 °C	80	110	130	150	180	240	300	350	400	500	600

Further information and suitable accessories can be found on our website: www.kletti-gmbh.com.

Do you have any questions or need an offer?

Contact us: sales@kletti-gmbh.com