

# UL/CSA HEATING HOSES

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Many of our customers export to the US and Canada - a UL approval for the US or a CAN/CSA certificate for Canada is a prerequisite for this. In addition, the approvals simplify market access in many other countries, as the standards enjoy a high reputation worldwide and serve as a benchmark.

KLETTI is the only company in Europe authorized to manufacture and certify heating hoses according to UL and CAN/CSA specifications. The certification of our production processes and products is carried out by TÜV Süd. TÜV Süd checks whether materials, components, systems and the production process meet the specific requirements. Only if this is the case, our heating hoses are allowed to display the UL or CAN/CSA test mark, for which a fee is charged.

From now on we have the possibility to offer and to produce our UL- CAN/CSA heating hoses in an extended voltage range from 12 to 600 VAC.

# UL/CSA HEATING HOSES

## TECHNICAL DATA

Operating temperature	Max. 100 °C / 200 °C / 250 °C
Nominal voltage	12 – 600 VAC, 1-phase
Amperage	Max. 16 A
Nominal width	DN 3 – 150, from DN 40 only with stainless steel- or PTFE corrugated hose as pressure hose
Pressure hose* (see data sheet „pressure hoses“)	PTFE-T1, -T2, -T3 Stainless steel corrugated hose PTFE corrugated hose
Connection fittings	According to customer request
Test voltage	High voltage test up to 2500 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
Limiter	Voltage < 42 VAC = Limiter is mandatory (overheating protection) Voltage > 42 VAC = Limiter is optional
Thermal insulation	Heat resistant aramid thermofleece, silicone foam (depending on version)
Outer protection	Polyamide braiding, corrugated tube (different versions), metal braiding (stainless steel or galvanized), others on request
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, cross sections from 0,5 to 2,5 mm <sup>2</sup>
End caps	Silicone caps or hard caps with traction relief
Manufactured length	Up to 46m, other lengths on request
Certification	CE-mark, UL- CAN/CSA certification (Certificate No. UL: U10U 071767 0010 Rev. 00; Certificate No. CAN/CSA: U14C 071767 0009 Rev. 00)
Ordering data	See technical questionnaire
Protection class	IP 54, IP65 or IP66

\* Pressure hoses used for the production of certified UL- CAN/CSA heated hoses are specified with 5 times safety against bursting. Example: If the hose burst pressure is 500 bar, we indicate the hose with a max. operating pressure of 100 bar.

## TEMPERATURE CONTROLLING DEVICES

[see Downloads Accesories](#) (Link)

**KLETTI GMBH**

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