HEAT TRACING SYSTEMS
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total competence in electric surface heating

QTVR

Raychem

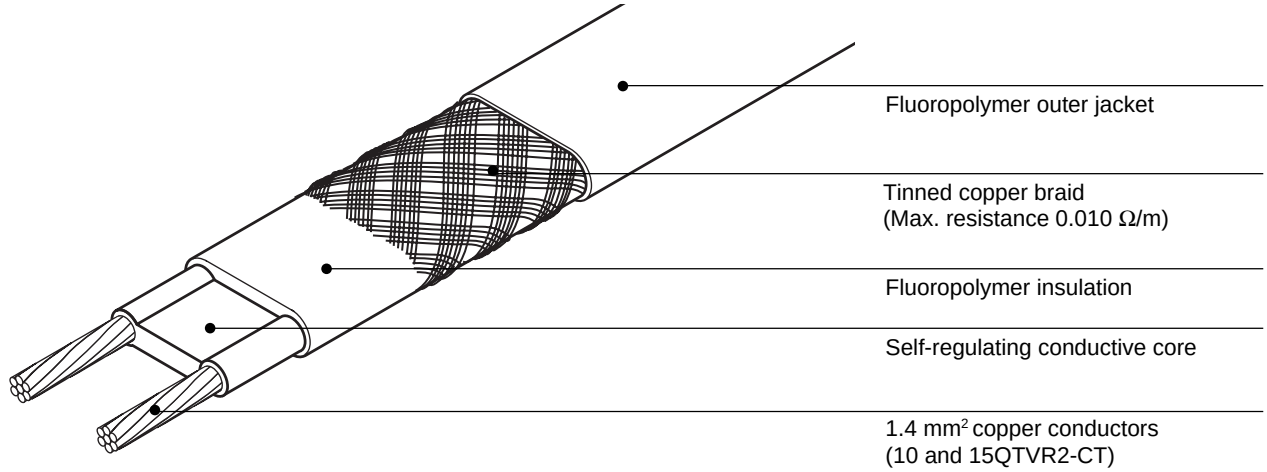
Self-regulating heating cables

Electrical trace-heating for process temperature maintenance applications up to 110°C which are not subject to steam cleaning.

The QTVR family of self-regulating, parallel circuit heating cables is used for process temperature maintenance of pipes and vessels.

It can also be used for frost protection of large pipes and for applications requiring medium temperature exposure capability.

Heating cable construction



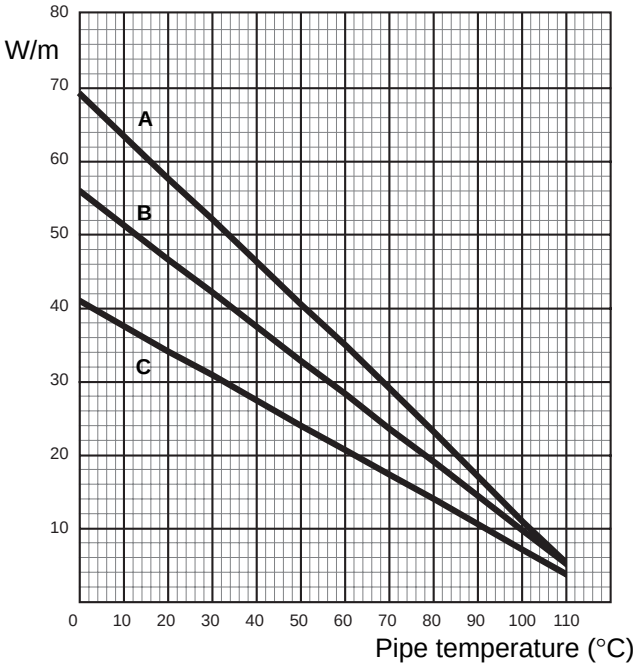
Application	
Area classification	Hazardous, Zone 1 or Zone 2 Ordinary
Traced surface type	Carbon steel Stainless steel Painted
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local Raychem Representative
Supply voltage	230 Vac (Contact your local Raychem Representative for data on other voltages)
Approvals	The QTVR heating cables are approved for use in hazardous areas Zone 1 and Zone 2 by PTB and BASEEFA. They are also VDE approved. Ex II 2 G EEx e(m) II T4 PTB 98 ATEX 1103 X Ex II 2 G EEx e II T4 BAS98ATEX2337X

Specifications	
Maximum exposure temperature (Continuous power on)	110°C
Temperature classification	T4 in accordance with European Standard EN 50 014
Minimum installation temperature	–30°C
Minimum bend radius	at 20°C: 12.7mm at –30°C: 35.0 mm

Thermal output rating

Power output at 230 Vac on insulated steel pipes

A 20QTVR2-CT
B 15QTVR2-CT
C 10QTVR2-CT



To choose the correct heating cable for your application use the Selection guide for industrial trace-heating systems. For more detailed information, use the TraceCalc software.

	10QTVR2-CT	15QTVR2-CT	20QTVR2-CT
Power output (W/m at 10°C)	38	51	63

Product dimensions (nominal) and weight			
Thickness (mm)	4.5	4.5	5.1
Width (mm)	11.8	11.8	14.0
Weight (g/m)	126	126	180

Maximum circuit length

Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit (m)		
25A	–20°C	100	80	60
	+10°C	115	95	75
32A	–20°C	115	95	75
	+10°C	115	95	95
40A	–20°C	115	95	95
	+10°C	115	95	110

The above numbers are for circuit length estimation only. For more detailed information please use de Raychem TraceCalc software or contact your local Raychem representative.
Raychem requires the use of a 30 mA residual current device to provide maximum safety and protection from fire.

Components Raychem offers a full range of components for power connections, splices and end seals. These components must be used to ensure proper functioning of the product and compliance with electrical requirements.