Raychem®

VPL

High-temperature power-limiting heating cable

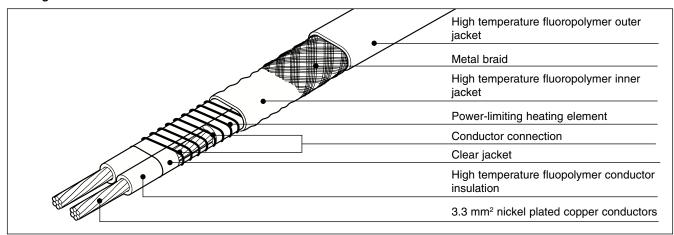
VPL is a family of power limiting heating cables designed for pipe and equipment heat-tracing in industrial applications. VPL can be used for frost protection and process temperature maintenance requiring high power output and/or high temperature exposure. VPL can provide process temperature maintenance up to 230°C and can withstand routine steam

purges and temperature exposure to 250°C with power off.

Power-limiting cables are parallel heaters formed by a coiled resistor alloy heating element wrapped around two parallel conductors. The distance between conductor contact points forms the heating zone length. This parallel construction allows it to be cut to length

and terminated on site. The power output of VPL heating cables decreases with increasing temperature. VPL heating cables can be overlapped. The relatively flat power temperature curve of VPL ensures a low start-up current and high output at elevated temperatures. VPL cables are approved for use in hazardous areas. Approvals are listed below.

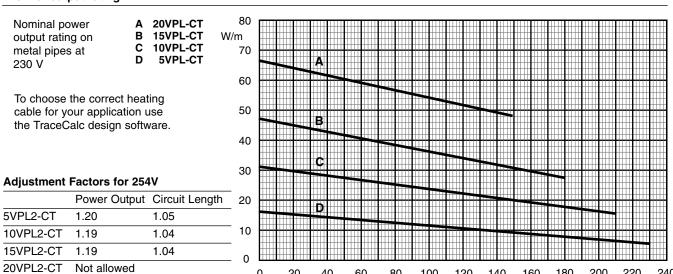
Heating cable construction



pplication					
Area classification	Hazardous, Zone 1, Zone 2 (Gas), Zone 21, Zone 22 (Dust) Ordinary				
Traced surface type	Carbon steel Stainless steel Painted or unpainted metal				
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local Tyco Thermal Controls representative				
upply voltage	230 or 254 Vac (Contact your local Tyco Thermal Controls representative for data on other voltages)				
Approvals	The VPL heating cable is approved for use in hazardous areas by Baseefa 2001 Ltd				
	BAS00ATEX2163X Il 2 GD Ex es II T* * By design				
pecifications					
Maximum maintain temperature	Cable	230V	254V		
(continuous power on)	5VPL2-CT	230°C	225°C		
	10VPL2-CT	210°C	200°C		
	15VPL2-CT	180°C	145°C		
	20VPL2-CT	150°C	Not allowed		
Max. exposure temperature (continuous power off)	250°C				
	To be established using the principles of stabilized design. Use TraceCalc design software or contact Tyco Thermal Controls for assistance.				
Temperature classification				or assistance.	
Temperature classification Minimum installation temperature				or assistance.	

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Thermal output rating



				Pipe temperature (°C)
	5VPL2-CT	10VPL2-CT	15VPL2-CT	20VPL2-CT
Nominal power output (W/m at 10°C)	15	30	45	61
Product dimensions (nominal) and wei	ght			
Thickness (mm)	7.9	7.9	7.9	7.9
Width (mm)	11.7	11.7	11.7	11.7
Nominal cold lead/ heating zone length (mm)	1219	914	610	508
Weight (g/m)	200	200	200	200

40

60

80

100

120

140

160

180

200

220

240

0

20

30V		5VPL2-CT	10VPL2-CT	15VPL2-CT	20VPL2-CT
Electrical protection sizing	Start-up temperature	Maximum heatin	g cable length per circu	it (m)	
_	–20°C	195	100	70	50
	+10°C	215	110	75	55
25A	–20°C	220	155	105	80
	+10°C	220	155	115	85
32A	–20°C	220	155	130	100
	+10°C	220	155	130	110
40A	–20°C	220	155	130	110
	+10°C	220	155	130	110

The above numbers are for circuit length estimation only. For more detailed information please use the Tyco Thermal Controls TraceCalc software or contact your local Tyco Thermal Controls representative.

Tyco Thermal Controls requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in a higher leakage current, a maximum 300 mA residual current device may be used. All safety aspects need to be proven.

Ordering details				
Part description	5VPL2-CT	10VPL2-CT	15VPL2-CT	20VPL2-CT
Part No.	451828-000	892652-000	068380-000	589252-000

Components

Tyco Thermal Controls 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.