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TCW/HZ

Electrical heating tape for process temperature maintenance of pipework and vessels in safe or hazardous areas.

Constant Wattage Heating Tape

- Withstand temperatures up to 200°C
- Outputs available to 33W/m
- Can be cut to length without waste
- CENELEC approved for use in hazardous areas
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC

Features

Minitracer type **TCW/HZ** is a constant wattage heating tape that can be used for freeze protection or maintenance of process temperatures in pipe and vessels.

It can be cut-to-length at site if field fabricated heating cable is preferred.

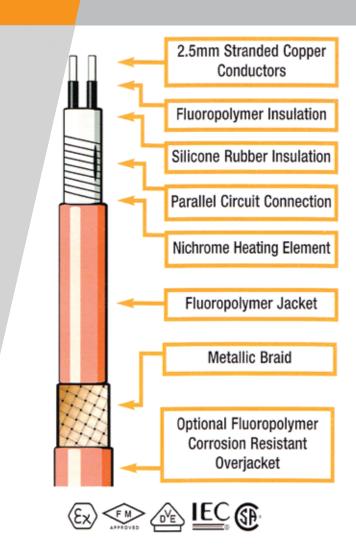
TCW/HZ is CENELEC approved for use in hazardous areas.

The installation of **TCW/HZ** heating tape is quick and simple and requires few special skills or tools. Termination and power connection components are all provided in convenient kits.

Options

TCW/HZ/C inned Copper braid for non-hazardous areas, hazardous areas (Zone 1 or 2) or where traced equipment does not provide an effective earth path.

TCW/HZ/CF Fluoropolymer over jacket over tinned copper braid provides corrosion protection for braid where chemical solutions or vapours may be present.



SPECIFI	CATION						
Maximum Temperature		Un-energised 200°C (392°F)					
Maximum Installation Temperature		-40°C (-40°F)					
Temperature Classification		200°C (T3) T4 (T3) T5 (T3) or T6 (85°C)	$\bigg\}$	Devices are clas according to rate and the condition ie. limited pipe to	d output ns of use.		
POWER SUPPLY	220-240 VAC or 110-120 VAC						
	Weights and Dimensions						
Type Ref	Nominal Dimensions (mm)	Weight kg/100m		Min. Bending radius	Gland Size		
TCW/HZ	7.5 x 4.8	6		20mm	M16		
TCW/HZ/C	9.0 x 6.0	9		25mm	M16		
TCW/HZ/FC	9.8 x 6.8	11		30mm	M20		

Approval Details

MAXIMUM CIRCUIT LENGTH

OUTPUT MAX. (W/m) 115V		CIRCUIT LENGTH* 230V	ZONE LENGTH 115V	(NOM.) 230V	
6.5	111m	212m	1000mm	1500mm	
13	78m	150m	741mm	1100mm	
23	59m	113m	900mm	1000mm	
33	49m	94m	1000mm	950mm	

^{*} For + 10% end-to-end power output variation

POWER CONVERSION FACTORS

115V HEAING TAPE	230V HEATING TAPE				
277V Multiply output by 5.80	277V Multiply output by 1.45				
230V Multiply output by 4.00	240V Multiply output by 1.09				
208V Multiply output by 3.27	220V Multiply output by 0.91				
120V Multiply output by 1.09	208V Multiply output by 0.82				
110V Multiply output by 0.91	115V Multiply output by 0.25				

APPROVAL DETAILS

CENELEC &

Certificate No. SCS Ex 94D3114

Standard EN50014:1992 & EN50019:1994

Area Approval Zone 1 and 2

CONSTRUCTION

Heating Element	Nickel Chromium	
Power Conductors	Tinned Plated Copper 2.5mm	
Conductor Insulation	Fluoropolymer (FEP) and Silicon Rubber	
Jacket	Fluoropolymer (FEP)	
Braid	Tinned Copper	
Over Jacket (optional)	Fluoropolymer (FEP)	

MAXIMUM PIPE/WORKPIECE TEMPERATURES

The surface of the heater must not exceed the maximum withstand temperature of its constructional materials or the Temperature Classification (if installed in a hazardous area). This is ensured by limiting the pipe or workpiece temperature to a safe level either by design calculation (a Stabilised Design) or by means of temperature controls.

For worst case conditions, the temperature of steel pipes should be limited to the following levels:-

MAXIMUM PIPE/WORKPIECE TEMPERATURES (°C)

Cat Ref	NOM OUTPUT	AREA CALSSIFICATION						
		HAZARDOUS						SAFE
	(W/m)	T6	T5	T4	Т3	T2	T1	
TCW/HZ	6.5							190
	13							176
	23		NOT APPROVED					
	33							97
TCW/HZ/C	6.5	54	72	115	187	190	190	190
	13	30	45	87	173	179	179	179
	23			47	144	149	149	149
	33		-	-	102	107	107	107
TCW/HZ/CF	6.5	54	74	121	190	190	190	190
	13	21	41	90	180	187	185	185
	23	-	-	39	152	159	159	159
	33	-	-	-	103	108	108	108

Pipe temperatures higher than those given above may be accommodated by using Thermotrace voltage compensating devices.

Tolerances: Voltage + 10%; Resistance + 10%; -0%

Notes

- 1 Surface temperature limits in accordance with EN50014.
- 2 Surface temperature limited in materials of construction (withstand temperature)

