

# EX Constant wattage parallel circuit heating cable

FHT is a family of constant wattage parallel circuit heating cables designed for pipe and equipment trace heating in industrial applications. FHT can be used for frost protection and process temperature maintenance requiring high power output and/or high temperature exposure.

### Heating cable construction

FHT can provide process temperature maintenance up to 200°C and can withstand routine steam purges and temperature exposure to 260°C power off. FHT heating cables are zone parallel heaters constructed from a 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 any length and terminated in the field. Its round shape provides excellent flexibility during installation as it allows for bending in every direction. FHT heating cables are approved for use in hazardous areas. Approvals are listed below.



	FHT/2/10-CT	FHT/2/20-CT	FHT/2/30-CT	
Size	Ø 7.5 mm Ø 7.5 mm		Ø 7.5 mm	
Specification				
Nominal power output	10 W/m	20 W/m	30 W/m	
Supply voltage (AC)	230 V	230 V	230 V	
Area classification	Hazardous Area, 2 Ordinary	Hazardous Area, Zone 1 or Zone 2 Ordinary		

Approvals

The FHT heating cable is approved for use in hazardous areas Zone 1 and Zone 2 by KEMA

II 2 G EExe II T6 to 230°C (T2) KEMA 01ATEX2085X

(Where T is the applicable temperature classification in accordance with the certificate schedule)

Max. circuit length	200 m	150 m	120 m
Max. withstand temperature (power off)	260°C	260°C	260°C
Max. work piece temperature (power on)	Refer to stabilised design tables		
Min. installation temperature	–65°C	–65°C	–65°C
Min. bend radius	20 mm	20 mm	20 mm
Min. spacing between turns*	40 mm	40 mm	40 mm
Colour	White	Red	Green
Cold Lead / heating zone length	1.5 m	1.5 m	1.5 m

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#### Stabilised design tables

The temperature values listed represent the maximum stabilised design surface temperature permitted for a work piece for temperature classification T6, T5, T4, T3 and 230°C (T2).

#### FHT/2/xxx heating tape with 100 mm spacing when spirally wound on a surface to be heated:

Nominal Power	Power Density (Q)	Temperature classification (°C)				
(W/m)	(W/m)	Т6	T5	T4	Т3	230°C (T2)
10	12.7	50	67	104	170	200
20	25.5	18	40	82	151	178
30	38.2	Х	Х	35	114	144

FHT/2/xxx heating tape with 40 mm spacing when spirally wound on a surface to be heated:

Nominal Power	Power Density (Q)	Temperature classification (°C)				
(W/m)	(W/m)	Т6	T5	T4	Т3	230°C (T2)
10	12.7	45	63	102	167	196
20	25.5	Х	17	70	145	172
30	38.2	Х	Х	Х	93	127
X = Not permitted						

#### **Ordering details**



## Components

splices and end seals. These components must be used to ensure proper functioning of the product and compliance with electrical requirements.

#### A ......

Termination kit	
Part description	TSL-TTK/F/1/M20 (cold applied connection and end seal kit – M20 version)
Part No.	509288-000
Part description	TSL-TTK/F/2/M20 (hot applied connection and end seal kit – M20 version)
Part No.	542340-000
Crimp tools (both crimp too	ols are required for TSL-TTK/F/1/M20 and TSL-TTK/F/2/M20)
Part description	TSL-TTK/F-01-CT (Crimp tool for use with TSL-TTK/F/1/M20 and TSL-TTK/F/2/M20 FHT heating cable connection kits)
Part No.	463026-000
Part description	TSL-TTK/F-02-CT (Crimp tool for use with TSL-TTK/F/1/M20 and TSL-TTK/F/2/M20 FHT heating cable connection kits)
Part No.	322998-000
Installation entry kit	
Part description	IEK-25-06
Part No.	566 578-000

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.