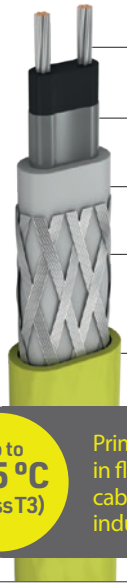
HTC-FF

Self-regulating heating cable in fluoropolymer for ATEX environments

for temperature **up to 195 °C** (classe T3)



STRUCTURE

conductor wires
tinned copper

self-regulating conductive matrix

primary insulation
fluoropolymer

metal braid
tinned copper

outer sheath
fluoropolymer

APPLICATIONS

- Freeze protection or process temperature maintenance of pipe systems, tanks and reservoirs in industrial environments up to 195 °C
- **Suitable for use in environments with presence of organic or corrosive chemicals, or in high temperature processes (eg. steam washing)**
- **Approved for use in potentially explosive environments (ATEX II 2 GD classified)**

FEATURES

- High resistance to chemical agents
- Degree of protection: IP 66 (EN 60529) - CE Marking

up to **195 °C** (class T3)

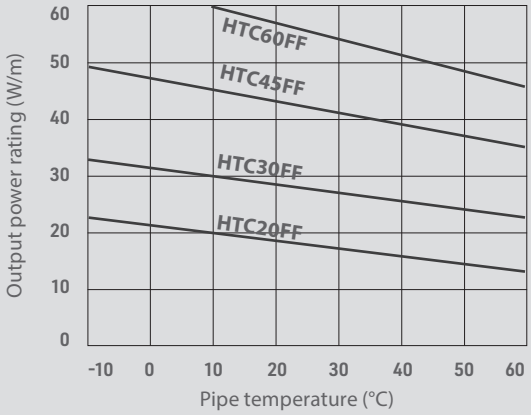
Primary insulation and outer sheath both in fluoropolymer make HTC-FF series cables suitable for use in high temperature industrial processes

IECEx Classification (CEI EN IEC 60079)
Ex eb IIC T3 Gb – Ex tb IIIC T195 °C Db
ATEX Classification Ex II 2 GD

For ATEX accessories see on pages 218-219

ref.	item	unit power a 10 °C (W/m)	max. contact temperature		min. installation temperature	min. ord. qty (m)	mult. ord. qty (m)
			continuous	intermittent			
HTC20FF	HTC20FF	20	120 °C	195 °C	–40 °C	10	10
HTC30FF	HTC30FF	30				10	10
HTC45FF	HTC45FF	45				10	10
HTC60FF	HTC60FF	60				10	10

Power rating



Nominal power output versus temperature graph evaluated on thermal insulated metal pipes

Sizing table

ref.	start-up temperature (°C)	circuit breaker current rating 15 A	20 A	30 A	40 A
		maximum cable circuit length * (m)			
HTC20FF	**–20**	60	80	122	149
	0	70	94	142	149
	+10	78	103	147	149
HTC30FF	**–20**	38	51	77	103
	0	40	54	81	109
	+10	43	57	87	112
HTC45FF	**–20**	29	39	59	79
	0	32	42	64	85
	+10	34	45	68	90
HTC60FF	**–20**	19	25	38	52
	0	20	27	41	55
	+10	22	29	44	58

* Estimated values for installation with type C curve and 30 mA ground-fault circuit breaker

Type
Self-regulating

Supply voltage
230 Vac

Conductor cross-section
1,3 mm² (16 AWG)
2 mm² (14 AWG)
for HTC60FF

Maximum intermittent exposure temperature
195 °C (IECEx T3)

Maximum continuous exposure temperature
120 °C

Cable cross dimensions
12,5 × 5,5 mm

Minimum bend radius
40 mm (a –40°C)

ATEX Classification
Ex II 2 GD