

FTH RANGE

FIRST
TRACE HEATING
DIRECT

Features

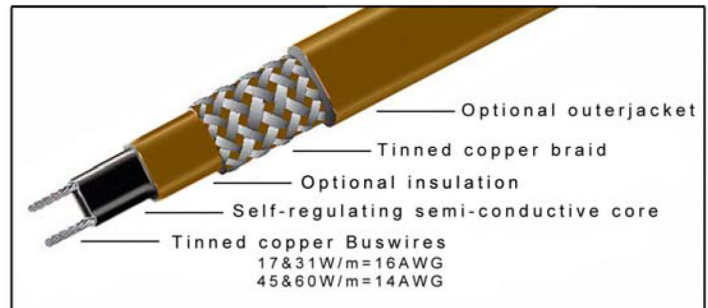
- Energy efficient, automatically varies its power output in response to pipe temperature changes.
- Easy to install, can be cut to any length (up to max circuit length) required on site with no wasted cable.
- Lower installed cost than steam tracing, less maintenance expense and less downtime.
- No overheat or burnout even when wrapped over itself (overlapped).
- Suitable for use in non-hazardous, hazardous and corrosive environments.

Description

FTH increasing or decreasing the heat output in a self-regulating way depending on the change of the ambient temperature, so a thermostat may not be necessary in some applications and it will never overheat or burnout even when wrapped over itself (overlapped). With optional outerjacket, the heating cable is resistant to watery and inorganic chemicals and protects against abrasion and impact damage. FTH is suitable for use in explosion-hazardous areas up to a maximum admissible work-piece temperature of +110°C.

Appliance

FTH is UL listed self-regulating parallel heating cable (heating tape) designed for pipe heat tracing in industrial applications, it is configured for use in hazardous and non-hazardous locations, including areas where corrosives may be present. It can provide process-temperature maintenance up to 110°C (230°F) and it can also be used for frost protection of large pipes and freeze protection in systems having high heat loss.



Options

- FTH-B** Tinned copper braid provides additional mechanical protection and a positive ground path.
- FTH-CR** Flame retardant thermoplastic overjacket protects against certain inorganic chemical solutions, it also protects against abrasion and impact damage.
- FTH** High Temperature Fluoropolymer overjacket is used for exposure to organic or corrosive solutions or vapours that may be present.

Technical data

Service voltage	110-120V, 220-277V
Maximum maintain or continuous exposure temperature (power on)	+110°C (230°F)
Maximum intermittent exposure Temperature, 1000 hours (power on or off)	+135°C (275°F)
Minimum installation temperature	-30°C (-22°F)
Protective braid resistance	< 18.2Ω/km
Bus wire gauge	16AWG (17 & 31W/m) 14 AWG (45 & 60W/m)

Approvals

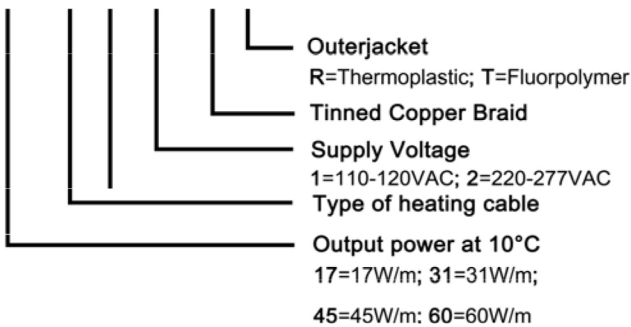
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Dimension and weight

Type	Dimension	Min.bending radius	Weight (kg/100m)
-FTH-B	12.0*4.4	26mm	9.5
-FTH-CR	13.6*6.0	36mm	11.0
-FTH	12.4*4.8	28mm	13.9

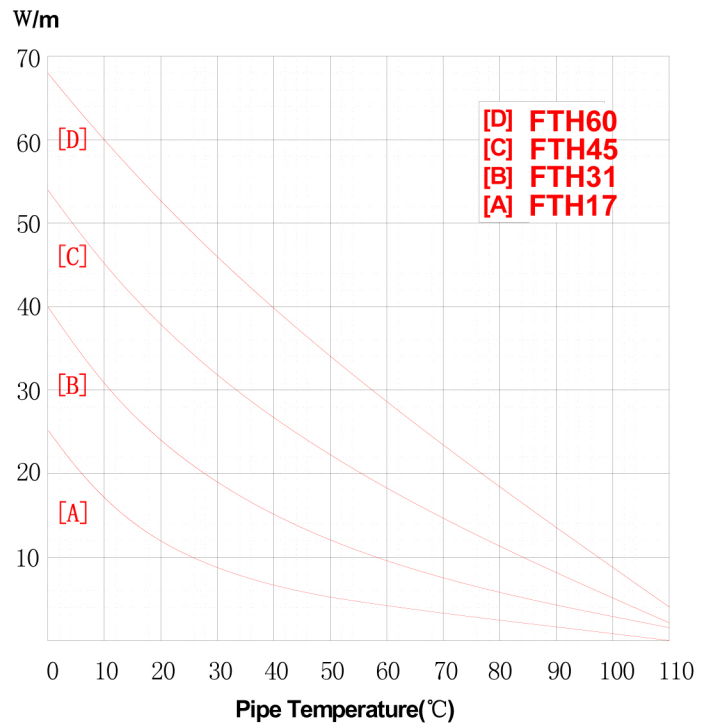
Product ordering information

45 FTH 2 - C - R/T



Power output curves

Nominal power output at 230V when FTH installed on insulated metal pipes



Maximum length(m) vs circuit breaker size

Minimum Start-up temperature	CB size Amps	FTH17 230V		FTH31 230V		FTH45 230V		FTH60 230V	
		ft	m	ft	m	ft	m	ft	m
10°C (50°F)	10	220	67	150	46	114	35	101	31
	16	265	81	200	61	187	57	164	50
	20	390	119	265	81	239	73	203	62
	30	420	128	347	106	308	94	262	80
	40	420	128	347	106	308	94	300	91
0°C (32°F)	10	160	49	145	44	101	31	82	25
	16	210	64	190	58	173	53	144	44
	20	320	98	295	90	216	66	180	55
	30	390	119	360	110	265	81	229	70
	40	390	119	350	106	265	81	255	78
-20°C (-4°F)	10	145	44	121	37	68	21	62	19
	16	195	59	160	49	114	35	101	31
	20	295	90	249	76	141	43	134	41
	30	365	111	311	95	180	55	167	67
	40	340	104	311	95	160	49	220	51
-40°C (-40°F)	10	135	41	114	35	65	20	55	17
	16	180	55	140	43	108	33	98	30
	20	275	84	200	61	137	42	121	37
	30	360	110	280	86	173	53	147	45
	40	330	101	260	79	160	49	190	58