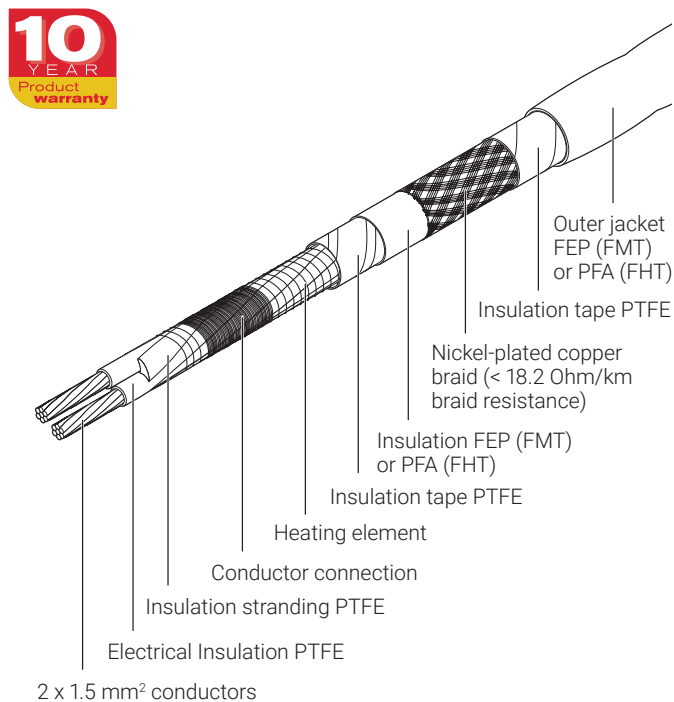


FMT and FHT

CONNECT AND PROTECT

Constant wattage parallel circuit heating cable

PRODUCT OVERVIEW



nVent RAYCHEM FMT and FHT are constant wattage parallel circuit heating cables designed for pipe and equipment heat-tracing in industrial applications. This family offers an economical alternative to our self-regulating heating cables but requires more skill for installation and also requires more advanced control and monitoring systems. Its unique round geometry provides excellent flexibility during installation as it allows for bending in every direction. The heating element which is the most fragile part of any constant wattage parallel circuit heating cable is protected by a PTFE insulation tape that eliminates shear stresses during flexing and also acts as a shock absorber, thereby providing a high level of protection. The heating cables can be used for frost protection and process temperature maintenance requiring high power output. The 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. The parallel construction allows it to be cut-to-length and terminated in the field.

FMT heating cables can withstand routine steam purges and temperature exposure to 200°C power off. They can be used to maintain temperatures up to 150°C (depending on cable type) and are only available in a 230 Vac version.

FHT heating cables can withstand routine steam purges and temperature exposure to 260°C power off. They can be used to maintain temperatures up to 230°C (depending on cable type) and are available for 230 Vac and 400 Vac supplies. The 400 Vac version offers a further advantage of long circuit lengths reducing the cost of the electrical installation.

Application

Traced surface type	Carbon steel, Stainless steel, Painted or unpainted metal
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your local nVent representative

PRODUCT SPECIFICATIONS

Dimensions (mm)

	FMT2	FHT2	FHT4
Size	Ø 7.5	Ø 7.5	Ø 7.5

Technical details

	FMT2	FHT2	FHT4
Supply voltage	190 - 277 Vac	190 - 277 Vac	385 - 415 Vac
Maximum continuous exposure temperature (power off)	200°C	260°C	260°C
Cold lead/heating zone length	1.5 m	1.5 m	2.5 m
Minimum installation temperature	-40°C	-60°C	-60°C
Minimum bending radius	-60°C ≤ T < -20°C: 25 mm -20°C ≤ T < -10°C: 20 mm -10°C ≤ T < +10°C: 15 mm T ≥ +10°C: 12 mm		
Minimum clearance	50 mm	50 mm	50 mm
Colour	White	Green	Violet

Maximum circuit length based on type 'C' circuit breakers according EN 60898

Voltage	Heating cable (nominal power: W/m)						
	10FMT2/ 10FHT2	20FMT2/ 20FHT2	30FMT2/ 30FHT2	40FHT2	10FHT4	20FHT4	30FHT4
230 Vac	200 m	150 m	120 m	85 m	-	-	-
400 Vac	-	-	-	-	330 m	235 m	190 m

The above numbers are for circuit length estimation only. For more detailed information please use the nVent RAYCHEM TraceCalc software or Contact your local nVent representative. nVent requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in higher leakage current, the preferred trip level for adjustable devices is 30 mA above any inherent capacitive leakage characteristic of the heater as specified by the trace heater supplier or alternatively, the next common available trip level for non adjustable devices, with a maximum of 300 mA. All safety aspects need to be proven.

Maximum maintain or continuous exposure temperature °C (power on)

Heating cable	Nominal power output (W/m)	230 V a.c.	254 V a.c.	277 V a.c.
10FMT2-CT	10	153	153	144
20FMT2-CT	20	129	116	97
30FMT2-CT	30	94	71	36
10FHT2-CT	10	229	225	219
20FHT2-CT	20	209	199	187
30FHT2-CT	30	184	168	143
40FHT2-CT	40	154	130	87
		385 V a.c.	400 V a.c.	415 V a.c.
10FHT4-CT	10	250	250	249
20FHT4-CT	20	224	221	218
30FHT4-CT	30	212	208	205

APPROVALS

For use in ordinary and hazardous area Zone 1 and Zone 2 (Gas), Zone 21 and Zone 22 (Dust)

Temperature classification

FHT: T6...T2

FMT: T6...T3

nVent RAYCHEM heat-tracing products are approved for the listed temperature classifications by using the principles of stabilized design. Use TraceCalc design software or contact nVent.

Product certification



More details about product certification, approvals and conditions of safe use are available in the installation manual for the Self-regulating and Power limiting heating cable systems at www.nvent.com/RAYCHEM.

ORDERING INFORMATION

Part description & part no.	Part description & part no.	Part description & part no.
10FMT2-CT: 1244-006057	10FHT2-CT: 1244-006060	10FHT4-CT: 1244-006064
20FMT2-CT: 1244-006058	20FHT2-CT: 1244-006061	20FHT4-CT: 1244-006065
30FMT2-CT: 1244-006059	30FHT2-CT: 1244-006062	30FHT4-CT: 1244-006066
	40FHT2-CT: 1244-006063	

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