



PRODUCT SPECIFICATIONS

# HMT™ PARALLEL CONSTANT WATT HEATING CABLE

## APPLICATION

HMT constant watt high temperature trace heating cables are specifically designed for freeze protection or process temperature maintenance on metal pipes and vessels where high maintain and/or exposure temperatures preclude the use of thermoplastic insulated trace heating cables. The parallel resistance configuration allows the cable to be cut-to-length and terminated in the field with easy-to-use Thermon supplied kits.

HMT trace heaters provide consistent and reliable heat outputs regardless of circuit length. The corrugated stainless steel outer jacket provides an extremely durable construction for use in harsh environments.

HMT trace heaters are approved for use in ordinary locations, hazardous (classified) locations including Div. 2, and Zone 1 classified locations.

## RATINGS

Available watt densities .....	5, 10, 15, 20 W/ft @ 50°F (16, 33, 49, 66 W/m @ 10°C)
Supply voltages .....	110-120, 208-277 Vac nominal
Maximum maintenance temperature <sup>1</sup>	
HMT-5 .....	572°F (300°C)
HMT-10 .....	563°F (295°C)
HMT-15 .....	502°F (261°C)
HMT-20 .....	423°F (217°C)
Maximum continuous exposure temperature	
Power-off .....	662°F (350°C)
Minimum installation temperature.....	-76°F (-60°C)
Minimum bend radius	
@ -76°F (-60°C) .....	1.00" (25 mm)

### Notes

1. For specific application information, refer to CompuTrace® HMT design program.



## CONSTRUCTION

- 1 Nickel-clad copper bus wires (14 AWG)
- 2 Helically wound heating element
- 3 Heater bus connection (not shown)
- 4 High temperature glass fiber
- 5 High temperature mica insulation
- 6 High temperature glass fiber
- 7 Corrugated stainless steel sheath

## BASIC ACCESSORIES

**Power Connection:** All HMT trace heaters require an HMTK-P power connection kit for terminating the circuit before connecting to power.

**End of Circuit Termination:** All HMT trace heaters require an HMTK-ET kit for terminating at the end of a circuit.

**THERMON The Heat Tracing Specialists®**



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**POWER OUTPUT**

The rated power output of HMT trace heaters is shown in the table below for the voltages indicated. The heating zone length is the distance between bus connections and represents the minimum circuit length for this type of cable. For maximum possible circuit lengths, see Circuit Breaker Sizing to the right. Contact Thermon before connecting cable to voltages other than those shown in this chart.

Catalog Number	Service Voltage Vac	Power Output W/ft (W/m)	Zone Length in (cm)
HMT 5-120	120	5 (16)	12 (30)
HMT 10-120	120	10 (33)	12 (30)
HMT 15-120	120	15 (49)	12 (30)
HMT 20-120	120	20 (66)	12 (30)
HMT 5-208	208	5 (16)	24 (61)
HMT 10-208	208	10 (33)	12 (30)
HMT 15-208	208	15 (49)	12 (30)
HMT 20-208	208	20 (66)	12 (30)
HMT 5-240	240	5 (16)	24 (61)
HMT 10-240	240	10 (33)	24 (61)
HMT 15-240	240	15 (49)	12 (30)
HMT 20-240	240	20 (66)	12 (30)
HMT 5-277	277	5 (16)	24 (61)
HMT 10-277	277	10 (33)	24 (61)
HMT 15-277	277	15 (49)	12 (30)
HMT 20-277	277	20 (66)	12 (30)

**CIRCUIT BREAKER SIZING**

Maximum circuit lengths for various circuit breaker amperages are shown below. Breaker sizing should be based on the Canadian Electrical Code or any other applicable code.

The Canadian Electrical Code requires ground-fault protection of equipment for each branch circuit supplying electric heating equipment.

Catalog Number	Service Voltage Vac	Max. Circuit Length ft (m)	Current Draw Amps/ft (Amps/m)
HMT 5-120	120	300 (91)	0.042 (0.138)
HMT 10-120	120	195 (59)	0.083 (0.272)
HMT 15-120	120	145 (44)	0.125 (0.410)
HMT 20-120	120	120 (37)	0.166 (0.544)
HMT 5-208	208	520 (158)	0.024 (0.079)
HMT 10-208	208	335 (102)	0.048 (0.157)
HMT 15-208	208	255 (78)	0.072 (0.236)
HMT 20-208	208	205 (62)	0.096 (0.315)
HMT 5-240	240	600 (183)	0.021 (0.069)
HMT 10-240	240	385 (117)	0.042 (0.138)
HMT 15-240	240	295 (90)	0.063 (0.205)
HMT 20-240	240	240 (73)	0.083 (0.272)
HMT 5-277	277	695 (212)	0.018 (0.059)
HMT 10-277	277	445 (136)	0.036 (0.118)
HMT 15-277	277	340 (104)	0.054 (0.177)
HMT 20-277	277	275 (84)	0.072 (0.236)

**CERTIFICATIONS/APPROVALS**



Canadian Standards Association  
 Ordinary Locations  
 Hazardous (Classified) Locations  
 Class I, Division 2, Groups A, B, C and D  
 Class II, Division 2, Groups E, F and G  
 Class III  
 11.2437660 Ex eb IIC