TEMPSENS

Thermal & Cable Solutions

ISO 9001-2015

HEAT TRACING SOLUTIONS

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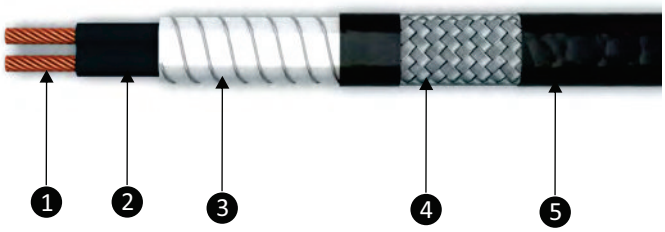
CONSTANT WATTAGE PARALLEL HEAT TRACE

CWPHT

Construction



1. Bus wires
2. Bus Wire Insulation
3. Heating wire
4. Braiding
5. Outer Jacket

Introduction

Parallel circuit Heating cables are constant watt arrangement designed to put out a certain amount of wattage per linear foot of cable. These are generally constructed of two #12AWG polymer insulated parallel bus wires with a nickel alloy heating element wire wrapped alternatively along the insulated bus wires. These connections are made at the 'NODE' point where the nickel-alloy heating element is either welded or connected by rivets. The entire element assembly is then dielectrically insulated with an additional polymer jacket. The power output per unit length is constant, regardless of the overall length of the heating unit. The parallel arrangement preserves systems integrity i.e. if any section of cable should fail, the rest of the heater will continue to operate. Ideally suited for applications where a particular watt density is required at all times such as freeze protection and many other low temperature process control applications

Construction Data

Buswire size	2X AWG 18 to AWG 15 Stranded Nickel Plated Copper
Buss Wires Insulation	PTFE
Heating Wire	Nichrome
Braiding	Nickel Plated copper Braided
Outer Jacket	PTFE

Cable Specifications

Output wattage at 10°C	20, 30, 40, 50, 60 W/M
Braiding covering area	Over 85%
Surface Temperature	200°C
Max. exposure temperature	230°C
Cut to Length	Yes
Min Bending radius	25 mm
Voltage	230 V / Customise
Insulation	Dark Brown

Maximum Circuit Length(M)

Voltage - 230 VAC			
Model	Nominal output W/m	Circuit Load	Max. Circuit Length (Meter)
CWPHT	20	0.086956522	184
	30	0.130434783	123
	40	0.173913043	115
	50	0.217391304	92
	60	0.260869565	77