

PWT, PWF

For freeze protection and process heating applications up to 350°F (177°C)

PermaWatt® Constant Wattage Heating Cables

- ◆ *Zone parallel circuitry for increased safety and reliability.*
- ◆ *Power ratings up to 10 watts/ft.*
- ◆ *Rugged construction for industrial and corrosive environments.*
- ◆ *Low Cost.*

PermaWatt PWT and PWF heating cables are industrial grade pipe tracing products that can be used on many applications ranging from simple freeze protection to process temperature maintenance applications of 350°F.

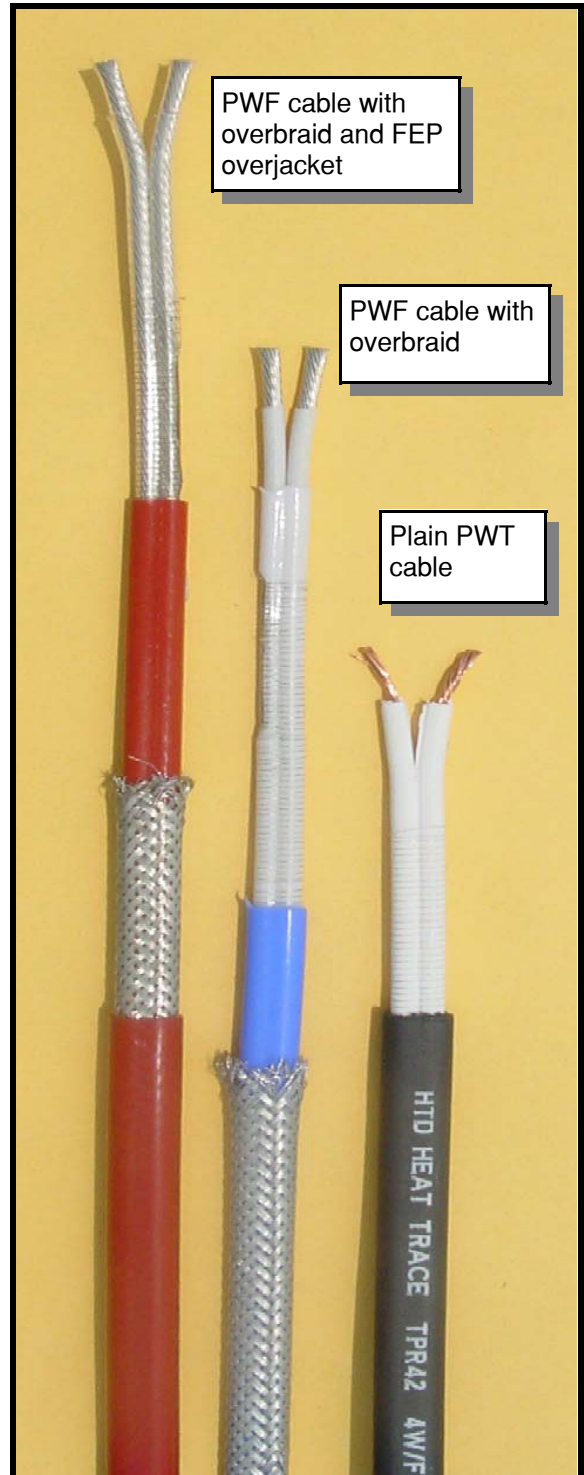
PermaWatt products are zone parallel, constant wattage style heating cables, that can be cut to length at the job site to match the exact length of piping being traced. There is no waste. Unused cable can be stored and saved indefinitely ready for immediate use on future applications.

PWT cable is specifically manufactured and offered as a *low cost* freeze protection cable.

PWF cables are offered for both freeze protection and process temperature maintenance applications. With its high temperature exposure rating of 400°F, PWF heating cable can be used safely on process piping systems that may be routinely or periodically steam cleaned.

PermaWatt heating cables are *industrial grade tough* but they are also flexible enough to be easily installed on small diameter pipes, valves, flanges and instruments. Installation is quick, simple and no special tools, knowledge or skills are required. A complete range of standard power connection kits, splice kits and tee splice kits are available to minimize power supply points and simplify cable routing on even the most complex piping systems.

Exact product features and capabilities are shown on the following page.



SPECIFICATIONS

POWER RATINGS

PWT
Up to 6 w / ft

PWF
Up to 10 w / ft

TEMPERATURE RATINGS

Continuous (power on)
Intermittent (power off)

PWT 200°F
PWF 350°F
257°F 400°F

HEATING ELEMENT MATERIAL

PWT
Nickel
Chrome Wire

PWF
Nickel
Chrome Wire

BUS WIRE SIZES & MATERIALS

PWT
16 AWG
Copper

PWF
12 AWG
Tinned Copper

JACKET MATERIALS

PWT
Thermoplastic Rubber
(TPR)

PWF
Fluoropolymer
(FEP)

STANDARD VOLTAGES

120 and 240 VAC
(all 240 VAC cables can also be used on
208 or 277 VAC)

PRODUCT RANGE

Product Ref	Watts / ft	Voltage	Max Circuit Length (ft)
PWT 21	2	120	365
PWT 41	4	120	260
PWT 22	2	240	730
PWT 42	4	240	515
PWF 41	4	120	402
PWF 81	8	120	284
PWF 101	10	120	254
PWF 42	4	240	803
PWF 82	8	240	568
PWF 102	10	240	508

Power adjustments:

The power output of a 240 VAC cable on 208 VAC equals the watts / ft at 240 VAC multiplied by 0.75

The power output of a 240 VAC cable on 277 VAC equals the watts / ft at 240 VAC multiplied by 1.33

STANDARD POWER RATINGS, VOLTAGES AND CIRCUIT LENGTHS

Cable Ref	Max Circuit length (ft) by Circuit Breaker Size								
	110 / 120 VAC			208/220/240VAC			277 VAC		
	15A	20A	30A	15A	20A	30A	15A	20A	30A
PWT 21	365	-	-	-	-	-	-	-	-
PWT 41	260	-	-	-	-	-	-	-	-
PWT 22	-	-	-	730	-	-	730	-	-
PWT 42	-	-	-	515	-	-	515	-	-
PWF 41	360	402	-	-	-	-	-	-	-
PWF 81	180	240	284	-	-	-	-	-	-
PWF 101	144	192	254	-	-	-	-	-	-
PWF 42	-	-	-	720	803	-	625	803	-
PWF 82	-	-	-	360	480	568	312	416	568
PWF 102	-	-	-	288	384	508	250	332	508

ORDERING INFORMATION

Feature	Order References
Product Codes	PWT PWF
Watts / ft	PWT 2 or 4 PWF 4, 8 or 10
Voltage	120 1 240 2
Tinned Copper Overbraid	C
Optional FEP Overjacket	PWT Not available PWF T

Example:

To order a PWF cable, rated at 8 watts / ft on 240 VAC, complete with overbraid and FEP overjacket, the final product and ordering code should read **PWF82 CT**.

ACCESSORIES

HTD Heat Trace, Inc supplies a full range of accessories for use with the PermaWatt product range. Accessories include termination kits, splice kits, tee splice kits, fixing tape, heat transfer tape, junction boxes and thermostats. Please contact HTD for full details.



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