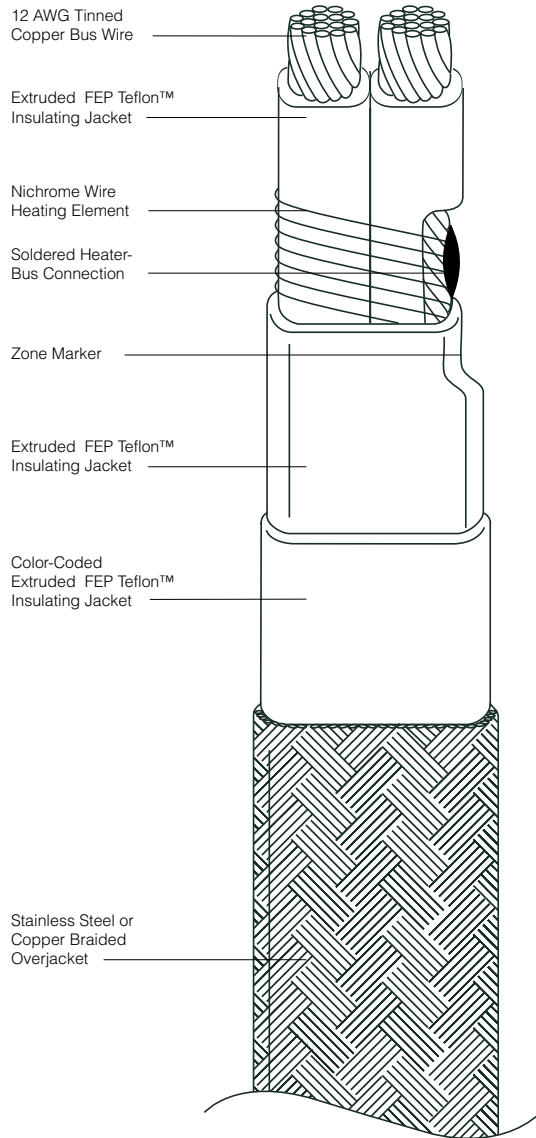




## PF HIGH TEMP SERIES

### Constant Wattage Cable



™ Dupont Co.



#### WARNING

**WARNING:** This cable is designed for commercial construction and process heating applications and must be installed by a qualified electrician. Improper installation can result in property damage, serious injury, and/or death due to electric shock.

#### DESCRIPTION

Delta-Therm's Power Trace brand, zone-type constant watt heating cable produces a constant heat output. Designed for freeze protection and process heating applications, our PF Series cable has a maximum maintenance temperature of 200°F (93°C) and a maximum exposure temperature of 400°F (204°C). See back page for additional specifications.

PF Series constant watt cable consists of two parallel 12 AWG stranded, tinned-copper bus wires individually encased in extruded FEP Teflon™ jackets. A nichrome wire heating element is wrapped around the jacket and soldered to alternating bus wires at 24-inch to 48-inch intervals (depending on the cable model). The jacket and the nichrome wire are encased in an extruded FEP insulating jacket, which is covered by a color-coded FEP overjacket. A stainless steel or copper braided overjacket provides additional mechanical strength and meets NEC requirements as stated in Articles 427-22 and 427-23. See back page for further details.

FEP jackets provide the flexibility needed for pipe, valve, pump, and flange tracing. FEP jackets also offer outstanding resistance to corrosive chemicals such as gasoline and oils. Color-coded and marked for easy identification, the cables can be cut to length in the field for quick installation. When used in freeze protection and process heating applications, PF cables can be safely overlapped. See back page to operate PF cables at alternate voltages.

#### APPLICATIONS

PF Series cable can be used in freeze protection and process heating applications.

#### APPROVALS

**Ordinary Locations:** FM Approved For Pipe Tracing

**Hazardous Locations:** FM Approved for—Class I, Division 2, Groups B, C, And D

\* Voltage range depends upon cable model. See Watts Per Foot (m) tables on back page.



# PF SERIES TECHNICAL INFORMATION

## PF Series Cable Description

Part #	Color	Voltage	Watts/Ft. (m)	Amps/Ft. (m)	Zone Length* In. (cm)	Max. Circuit Length** Ft. (m)
PF-3	Orange	208	2.7 (9)	.013 (.04)	48" (122)	710' (216)
PF-6	Red	120	6.0 (20)	.050 (.16)	24" (61)	280' (85)
PF-7	Green	120	8.0 (26)	.067 (.22)	24" (61)	240' (73)
PF-8	Blue	120	1.8 (6)	.015 (.05)	24" (61)	480' (146)
PF-10	Yellow	208	8.9 (29)	.043 (.14)	24" (61)	390' (119)
PF-12	Brown	480	12.0 (39)	.025 (.08)	48" (122)	780' (238)

\*One complete heating zone is the distance between two successive bus connections.

\*\*Maximum circuit length is defined as the length of cable at which the heat output, due to voltage drop, decreases to 90 percent of the heat output at the power connection point.

## Watts/Ft. (m) At Alternate Voltages

Part #	120V	208V	240V	277V	480V
PF-3	-	3 (9)	4 (12)	5 (16)	14 (47)
PF-6	6 (20)	-	-	-	-
PF-7	8 (26)	-	-	-	-
PF-8	2 (6)	5 (18)	7 (23)	9 (31)	-
PF-10	3 (10)	9 (29)	12 (39)	-	-
PF-12	-	-	3 (10)	4 (13)	12 (39)

## Electrical Specifications

Max. Maintenance Temp. °F (°C)	200° (93°)
Max. Exposure Temp. °F (°C)	400° (204°)
Cable Insulation	FEP Teflon™
Cable Overjacket	FEP Teflon™
Bus Wires	12 AWG

™ Dupont Co.

## Thermostatic Controls and Panels

Please refer to the heat trace controls chart in the introduction section of the catalog.

## Accessories for PF Series Cable

PCK-PT/PF	Power Connection And End Termination Kit
SPK-PT/PF	In-line Splice Connection Kit
PT-T3SL	Tee Splice Connection Kit
T-ALXXX	Aluminum Heat Distribution Tape
T-FXX	Fiberglass Banding Tape
CL-X	Caution Labels
DT Box	Electrical Junction Box

## ZONE MARKER:

Zone Markers for PF series cable may be raised bumps, or depressions on the edge of the cable. (Braid may have to be pulled away to locate.)

## Use Of Ground Fault Protective Devices And Metallic Overshield

### NEC CODE 2005, ARTICLE 427-22:

Equipment Protection. Ground-fault protection of equipment shall be provided for electric heat tracing and heating panels. This requirement shall not apply in industrial establishments where there is alarm indication of ground faults and

- (1) Conditions of maintenance and supervision ensure that only qualified persons service the installed systems.
- (2) Continued circuit operation is necessary for safe operation of equipment or processes.

### NEC CODE 2005, ARTICLE 427-23:

Grounded Conductive Covering. Electric heating equipment shall be listed and have a grounded conductive covering in accordance with 427.23 (A) or (B). The conductive covering shall provide an effective ground path for equipment protection.

- (a) Heating Wires or Cables. Heating wires or cables shall have a grounded conductive covering that surrounds the heating element and bus wires, if any, and their electrical insulation. The conductive covering shall provide an effective ground path for equipment protection.

TO ORDER:

Series (PF) →

Part No. →

Stainless Steel or Copper Braided Overjacket Suffix (SB or CB) →



The material contained in this document is presented in good faith and believed to be reliable and accurate. However, because testing conditions may vary and material quality or information that may be provided in whole or in part by others may be beyond our control, no warranty, expressed or implied, is given. Delta-Therm can assume no liability for results obtained or damages incurred through the application of the data and tests presented.