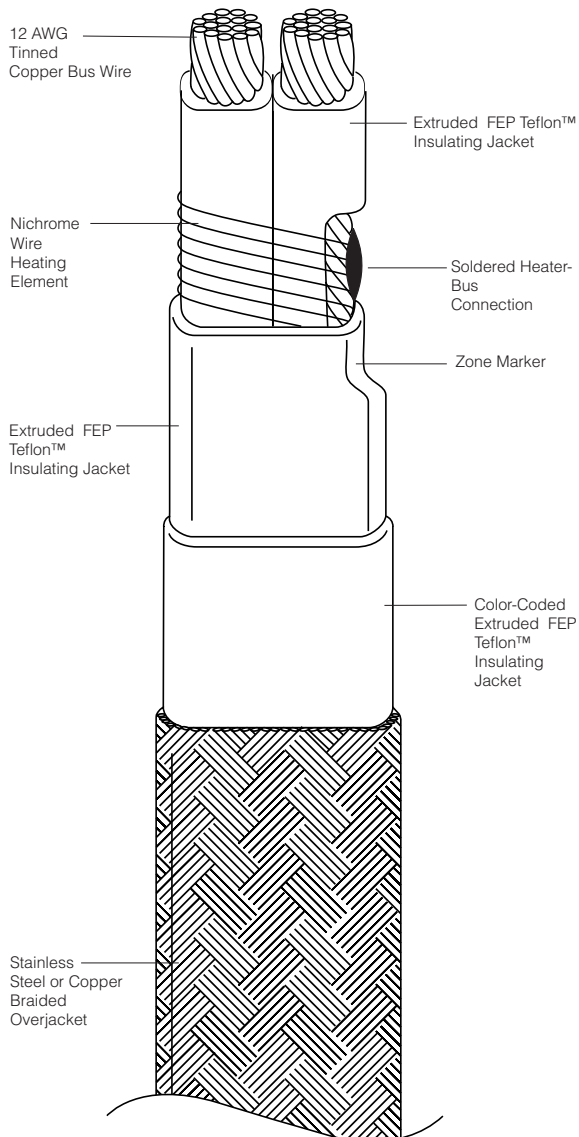


HIGH TEMP SERIES (PF)

120 to 480 Volts*

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 (93.33°C) and a maximum exposure temperature of 400°F. (204.4°C) See back page for additional specifications.



DESCRIPTION

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, & D



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.

PF Series Technical Information

PF SERIES CABLE DESCRIPTION

| Part # | Color | Voltage | Watts/Ft. (M) | Amps/Ft. (M) | Zone Lenth* | Max. Circuit Length** |
|----------|--------|---------|---------------|--------------|----------------|-----------------------|
| PF-3-SB | Orange | 208 | 2.7 (8.86) | .013 (.043) | 48" (121.92cm) | 710' (216.41m) |
| PF-6-SB | Red | 120 | 6.0 (19.68) | .050 (.164) | 24" (60.96cm) | 280' (85.34m) |
| PF-7-SB | Green | 120 | 8.0 (26.24) | .067 (.220) | 24" (60.96cm) | 240' 73.15m) |
| PF-8-SB | Blue | 120 | 1.8 (5.90) | .015 (.049) | 24" (60.96cm) | 480' (146.30m) |
| PF-10_SB | Yellow | 208 | 8.9 (29.19) | .043 (.141) | 24" (60.96cm) | 390' (118.87m) |
| PF-12-SB | Brown | 480 | 12.0 (39.36) | .025 (.082) | 48" (121.92cm) | 780' (237.74m) |

* 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 | - | 2.7 (8.86) | 3.6 (11.81) | 4.8 (15.74) | 14.3 (46.90) |
| PF-6 | 6.0 (19.68) | - | - | - | - |
| PF-7 | 8.0 (26.24) | - | - | - | - |
| PF-8 | 1.8 (5.90) | 5.4 (17.71) | 7.1 (23.29) | 9.5 (31.16) | - |
| PF-10 | 3.0 (9.84) | 8.9 (29.19) | 11.9 (39.03) | - | - |
| PF-12 | - | - | 3.0 (9.84) | 4.0 (13.12) | 12.0 (39.36) |

* Use for embedded snow melting applications only.

ELECTRICAL SPECIFICATIONS

| | |
|------------------------|-----------------|
| Max. Maintenance Temp. | 200°F (93.33°C) |
| Max. Exposure Temp. | 400°F (204.4°C) |
| Cable Insulation | FEP Teflon™ |
| Cable Overjacket | FEP Teflon™ |
| Bus Wires | 12 AWG |

™ Dupont Co.

ACCESSORIES FOR PF SERIES CABLE

| | |
|------------------|--|
| A19XXX | NEMA 1, 3 Ambient and Line Thermostats |
| OTS-XX | NEMA 4X, 7, 9 Ambient and Line Thermostats |
| 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 |

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.

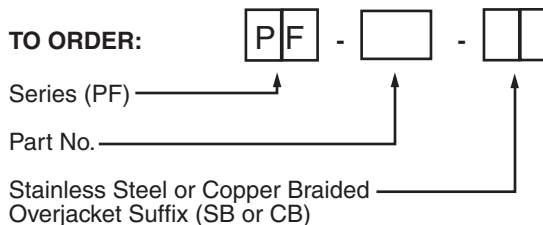
NEC CODE 2005, ARTICLE 427-23:

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:



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.

