

THRIFTY TRACE

**120 Volts 5 Watts/Ft.
Above Standard Ratings
Are Heat Output At 40°F**

DESCRIPTION

Delta-Therm's economical self regulating cable for pipe tracing increases heat output as pipe temperature decreases, and conversely, decreases heat output as pipe temperature increases.

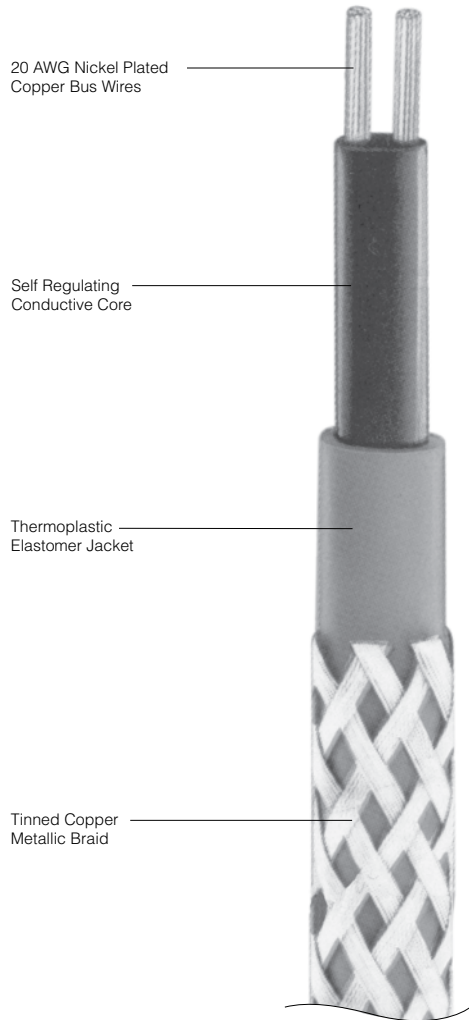
Thrifty Trace self regulating cable contains two 20 AWG parallel bus wires electrically connected by a web of PTC (positive temperature coefficient) conductive polymer. A thermoplastic elastomer jacket surrounds the cable to provide mechanical protection and electrical isolation. The tinned copper braid overshield provides additional mechanical protection as well as a ground path for fault currents. This cable should be controlled by a thermostat or other device

APPLICATIONS

External Pipe Tracing

APPROVALS

Ordinary Locations: Thrifty Trace cable is UL listed for pipe tracing when used with the PCK-TT power connection kit.



WARNING

WARNING: This cable is designed for commercial 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 and fires.



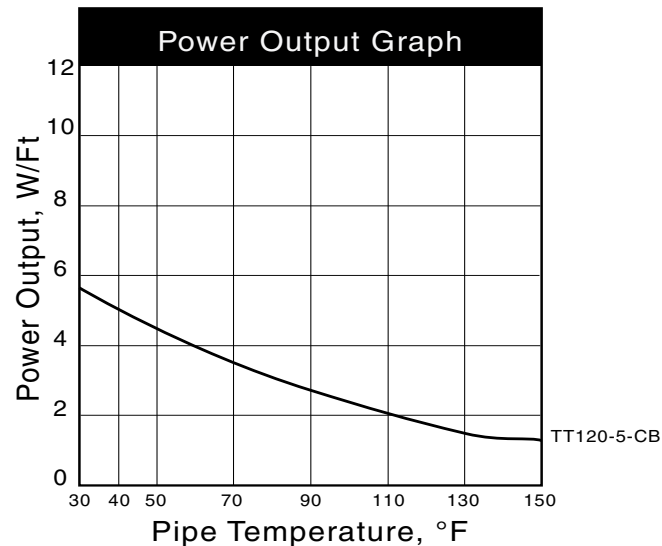
TECHNICAL INFORMATION THRIFTY TRACE (TT) SERIES

TT Series Electrical Specifications

| | |
|--|--------------|
| Part Number | TT120-5-CB |
| Bus Wire Size | 20 AWG |
| Thermal Rating At 40°F Watts/Ft. (Watts/m) | 5 (16) |
| Service Voltage | 120 VAC |
| Maximum Circuit Length (Ft.) (m) | 125' (38) |
| Maximum Maintenance Temperature °F (°C) | 150° (65°) |
| Maximum Exposure Temperature °F (°C) | 185° (85°) |
| Applications | Metal or PVC |

120 Volt Breaker Sizing And Max. Circuit Length Ft. (m)

| TT120-5-CB if started at | | |
|--------------------------|-----------|-----------|
| | 15A | 20A |
| 40°F (4°C) | 125' (38) | 125' (38) |
| 0°F (-18°C) | 90' (27) | 125' (38) |
| -20°F (-29°C) | 80' (24) | 120' (37) |



Accessories

| | |
|-----------|--|
| PCK-TT | Power Connection Kit – UL Listed |
| CL-S/CL-L | Small and Large Caution Labels |
| DT-Box | Weatherproof 2 Gang Aluminum Box With Five .75" (2cm) Hubs And Cover |
| T-FXXX | Fiberglass Banding Tape |
| T-ALXXX | Aluminum Tape |

Panels

| | |
|-------------------------------------|----------------------------|
| DT-XXPXXX | Enclosed Contactor Panel |
| GFPE-X-X | Power Control Panel w/GFPE |
| LNR-X | Low Noise Relay Panel |
| Custom Control/Monitor/Alarm Panels | |

Circuit Breakers

Do not use magnetic-type circuit breakers. Delta-Therm recommends using the following thermal-magnetic circuit breakers (or equivalent) to prevent nuisance tripping caused by inrush currents:

| | |
|----------------|----------------------------|
| Westinghouse: | Types BA, EB, EHB, FB, HFB |
| Gen. Electric: | Types TEB, THED |
| Square D: | Types EH, FA |

Use Of Ground Fault Protective Devices And Tinned Copper 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 the following conditions apply:

- (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.

(B) Not applicable to heating wires or cables.

The metal covering shall provide an effective ground path.

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TO ORDER THRIFTY TRACE CABLE SPECIFY: TT120-5-CB