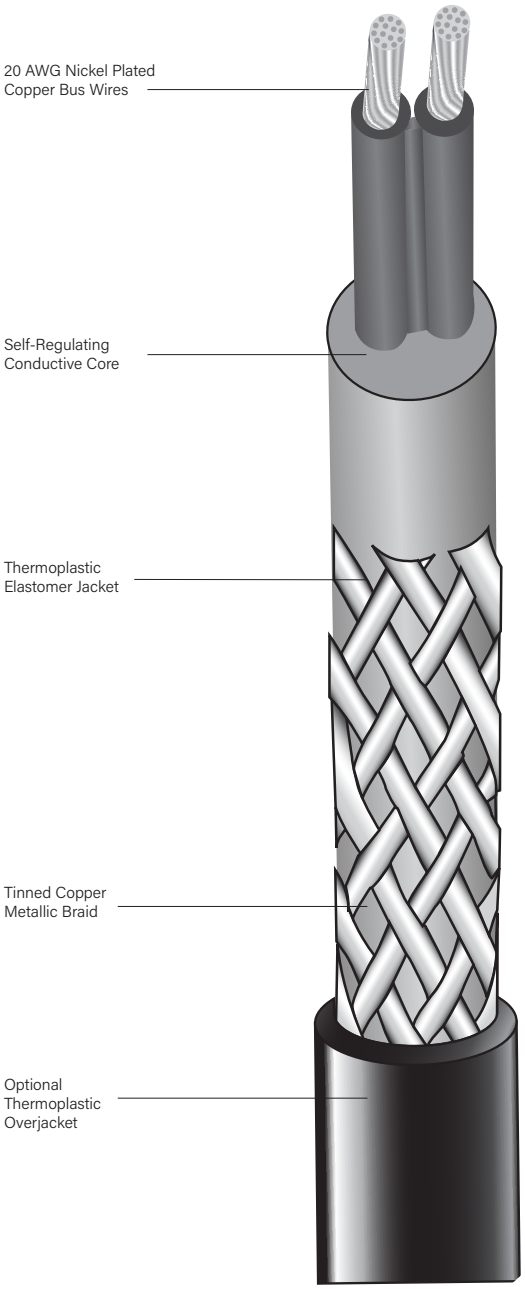
DELTA-THERM CORPORATION®

Thrifty Trace (TT) Series

Self-Regulating Cable



120 Volts 5 Watts/Ft.
Above Standard Ratings are Heat Output at 40°F for Pipe Tracing

DESCRIPTION

Delta-Therm's economical TT Series 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: This cable 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.

Delta-Therm Corporation **www.delta-therm.com** **P: 800-526-7887 • F: 847-526-4456**

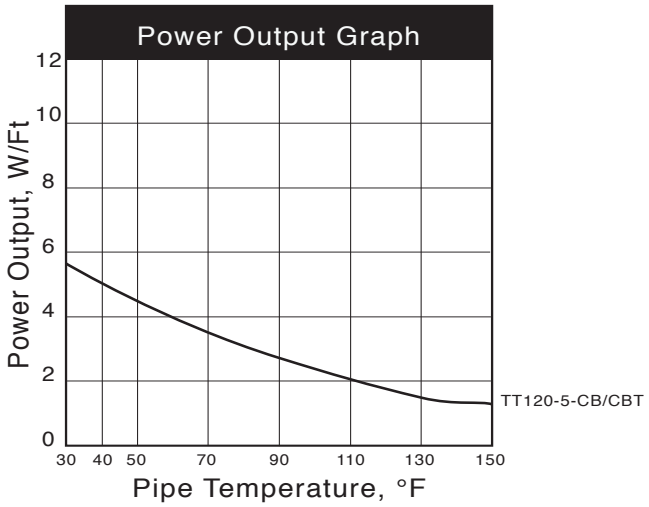
TT Series Technical Information

TT SERIES ELECTRICAL SPECIFICATIONS

Part Number	TT120- 5-CB TT120-5-CBT (optional)
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
PC1, PC2, PC3	Polycarbonate Junction Box
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 2017, 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) onditions of maintenance and supervision ensure that only qualified persons service the installed systems.

(2) ontinued circuit operation is necessary for safe operation of equipment or processes.

NEC CODE 2017, 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 metal covering shall provide an effective ground path.

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