

COMMERCIAL SERIES (CO)

**120 and 240 Volts 6 Watts/Ft. (20m)
Above Standard Ratings Are
Heat Output At 40°F (4°C) For Pipe Tracing**

DESCRIPTION

Delta-Therm self-regulating heating cable increases heat output as temperature decreases, and conversely, decreases heat output as temperature increases.

Commercial Series cables contain two 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.

A tinned copper metal braid provides additional mechanical protection as well as a ground path for fault currents.

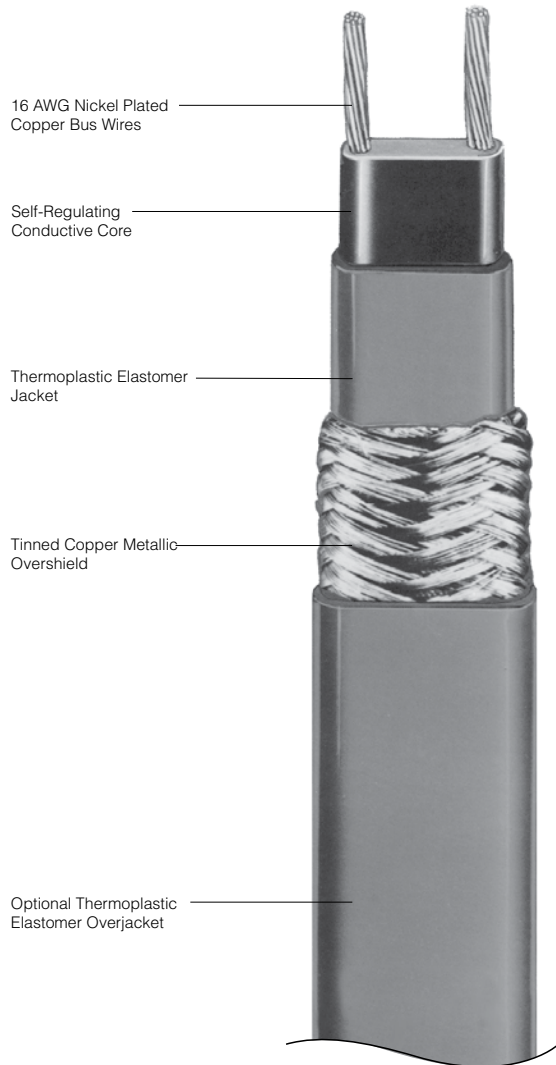
For protection against non-organic corrosive elements, CO Series cables can also be specified with a thermoplastic elastomer overjacket.

APPLICATIONS

External Pipe Tracing

APPROVALS

Ordinary Locations: All CO Series cables are UL listed for pipe tracing when used with a PCK-C6 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 COMMERCIAL (CO) SERIES PIPE TRACING CABLE

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

CO 120-6 If Started At					
	10A	15A	20A	30A	40A
40°F (4°C)	100' (31)	150' (46)	200' (61)	250' (76)	250' (76)
0°F (-18°C)	65' (20)	100' (31)	130' (40)	190' (58)	250' (76)
-20°F (-29°C)	55' (17)	85' (26)	115' (35)	170' (52)	225' (69)

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

CO 240-6 If Started At					
	10A	15A	20A	30A	40A
40°F (4°C)	175' (53)	270' (82)	360' (110)	450' (137)	450' (137)
0°F (-18°C)	110' (34)	175' (53)	230' (70)	340' (104)	450' (137)
-20°F (-29°C)	90' (27)	145' (44)	190' (58)	285' (87)	385' (117)

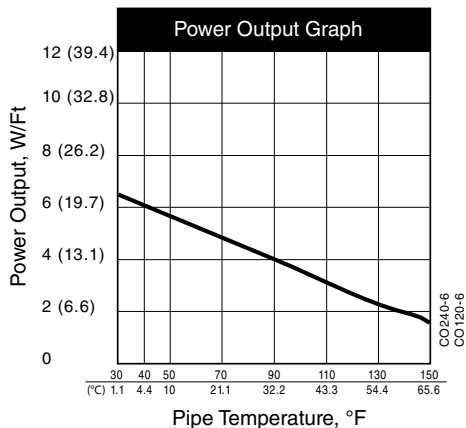
CO Series Electrical Specifications

Part Number	CO120-6	CO240-6
Thermal Rating At 40°F (4°C) Watts/Ft. (Watts/m)	6 (20)	6 (20)
Voltage	120	240
Maximum Circuit Length Ft. (m)	250' (76)	450' (137)
Maximum Maint. Temp. °F (°C)	150° (66°)	150° (66°)
Maximum Exposure Temp. °F (°C)	185° (85°)	185° (85°)

Alternate Voltages Table

Delta-Therm 240V self-regulating heating cable can be used in 208V, 240V, and 277V applications. This conversion table lists voltage with various power output ratings at 40° F. (4.44°C)

Voltage	Nominal Watts/Ft. (Watts/m) at 40°F (4°C)
208	4.9 (16.0)
240	6.0 (19.7)
277	6.8 (22.3)



Accessories

PCK-C6	Power Connection Kit
ETK-IN-5	End Termination Kit
SPK-IN-5	Splice Connection Kit
CL-S/CL-L	Small And Large Caution Labels
PC1, PC2	Polycarbonate Junction Box
T-ALXXX	Aluminum Heat Distribution Tape
T-FXXX	Fiberglass Banding 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

(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 metal covering shall provided an effective ground path.

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.

