

Electric Traced Tubing

METRIC SIZES

Series 2E56 LTM
2E66 LTM

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

Low Temperature Maintenance Self-Regulating Electric Heat Trace

Dekoron® Unitherm™ Series 2E256/2E66 Low Temperature Maintenance (LTM) Self-Regulating Electric Traced Tubing is a thermally insulated fluid transport line for use in applications requiring freeze protection, viscosity maintenance, or condensation prevention, where the line may be cleaned or purged using steam or hot gasses. Each line is comprised of the following elements:

- Single or multiple process tube(s)
- Low temperature, self-regulating heating element with tinned-copper braid and fluoropolymer overjacket manufactured by Pentair Thermal Management
- Heat-reflecting foil wrap
- Moisture resistant, non-wicking, inorganic fibrous glass thermal insulation
- Choice of weather protective jacket

The energy-efficient design provides for a minimum temperature maintenance of 10°C at -40°C ambient. The standard product is available with a 16 or 29 watt per meter, 230 VAC Type BTV self-regulating heating element, manufactured by Pentair Thermal Management. The heating element will withstand continuous exposure to 65°C and intermittent exposure to temperatures of up to 85°C.

2E56 and 2E66 Bundles are approved for use in hazardous areas by FM Approvals:

FM10ATEX0032X

FME10.0003X



Ex e IIC T6 Gb II2GD

Ex e II T6 II 2D Ex tb
IIIC IP66 T85C

Applications for this product:

- Analyzer and instrument lines
- Small diameter process lines
- Impulse lines
- Freeze protect condensate return lines



Additional features of this product are:

- Pre-engineered for reduced design cost and predictable operational characteristics
- Bundles are lightweight and easy to bend
- Smaller OD than field fabricated lines means better use of mounting space
- Maintenance-free; no open seams, no gaps in insulation
- Consistent and predictable thermal characteristics
- Heater output up to 29 watts/meter available

Standard Products in this series:

2E56-Q0A20	2E56-Q7A20	2256-R1A20
2E56-R0A20	2E56-R7A20	2266-R0B40
		2266-R7B40

Standard products contain welded or seamless Type 316/316L stainless steel - or - seamless #122DHP copper tube(s), a 16w/m 230 VAC or 29 w/m 230 VAC low temperature self-regulating heater, non-wicking, low chloride fibrous glass thermal insulation and a weather-protective FRPVC extruded outer jacket. Alternate tube, heater and jackets available. Contact Dekoron Unitherm for assistance on selecting the correct products and materials for the application.

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1531 Commerce Creek Boulevard • Cape Coral, Florida 33909

Call Toll Free (800) 633-5015 • Telephone (239) 995-8111 • Fax (239) 995-8027

www.unithermcc.com

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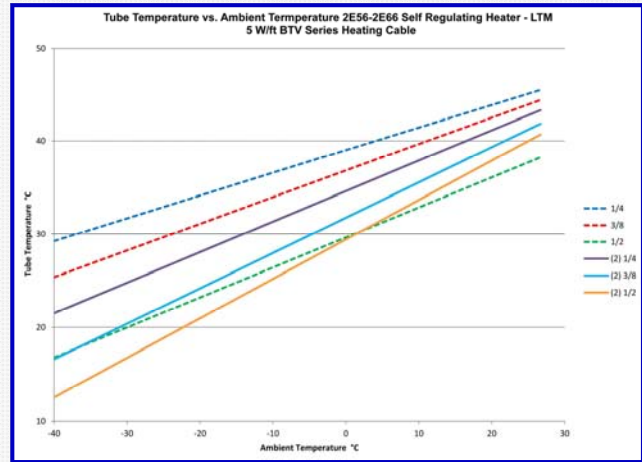
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Technical Information:

Heater Type	Self-Regulating Parallel Heater Type BTV
Heater Insulation	Fluoropolymer
Maximum continuous exposure temperature (Power On)	65°C
Maximum intermittent exposure temperature (Power Off- 1000 hrs)	85°C
Circuit Length for 32 A Circuit Breaker	200 meters @ 230 VAC
Power output	16 Watts/m @ 10°C and rated voltage
Temperature Rating per NEC 500	T6(100°C)



Tube Temperature vs Ambient for standard bundles with 5 w/ft LTR

Product Specifications 2E56/2E66 LTM:

Tube OD	Standard Wall Thickness ⁽¹⁾	Material ⁽²⁾	ASTM Std	Working Pressure @ 93°C ⁽³⁾	Nominal Bundle OD	Nom. Weight kg/m	Min Bend Rad
6mm	1mm	#122 DHP Copper	B-68-B-75	158 Barg	35 mm	0.58	20.3 cm
10mm	1mm	#122 DHP Copper	B-68-B-75	95 Barg	37 mm	0.73	22.9 cm
12mm	1mm	#122 DHP Copper	B-68-B-75	89 Barg	40 mm	0.87	25.4 cm
18mm	1mm	#122 DHP Copper	B-68-B-75	54 Barg	45 mm	1.31	30.5 cm
6mm	1mm	316/316L- S/S WLD	A-269	373 Barg	35 mm	0.81	20.3 cm
10mm	1mm	316/316L- S/S WLD	A-269	269 Barg	37 mm	0.87	22.9 cm
12mm	1mm	316/316L- S/S WLD	A-269	210 Barg	40 mm	0.95	25.4 cm
6mm	1mm	PFA Fluoropolymer	D-6867	6.5 Barg	35 mm	0.73	20.3 cm
10mm	1.5mm	PFA Fluoropolymer	D-6867	6.9 Barg	37 mm	0.77	22.9 cm
12mm	1.5mm	PFA Fluoropolymer	D-6867	5.2 Barg	40 mm	1.31	25.4 cm

Notes:
 (1) other wall thickness are available
 (2) alternate metal and polymer tubing materials are available
 (3) working pressure based on welded tube, seamless will be higher.
 Contact Dekoron Unitherm for alternate materials

Circuit Breaker Sizing vs. Maximum Circuit Length - Meters - 16 w/m LTR

If Started At	16 A @230 VAC	20 A @230 VAC	25 A @230 VAC	32 A @230 VAC
50°F	200	200	200	200
-4°F	155	195	200	200

Circuit length will vary depending upon the heater selected by the user. Contact Dekoron Unitherm for further information.

Electric Traced Tubing Accessories: Item Number

Seal-Tite End Boots		
	Singe Tube	BOOT-2
	Dual Tubes	BOOT-3
Uniseal Cable Entry Seals		
	for Bundles up to 35 mm	Seal 1.60
	for Bundles up to 66.5 mm	Seal 2.75
Unicut™ Bundle Jacket Cutter		1631-01001
RTV Silicone End Sealant		
	85 g tube	1535-02080
	262 g cartridge	1535-02120
Electrical connection kit with box		1548-16000
Termination kit		1548-17000
Mechanical Thermostats		
	Line Sensing - hazardous locations	1660-13A12
	Ambient Sensing - hazardous locations	1660-18912



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 Fax: 239.995.8027

For additional information visit our website:
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