



PRODUCT DATASHEET

HLX™

SELF-REGULATING HEAT TRACING

APPLICATION: HOT WATER TEMPERATURE MAINTENANCE

HLX heat tracing is specifically designed to maintain hot water supply piping at desired nominal maintenance temperatures. It offers an easy, economical and environmentally friendly way to provide on-demand warmth for your application.

SAFE & SUSTAINABLE

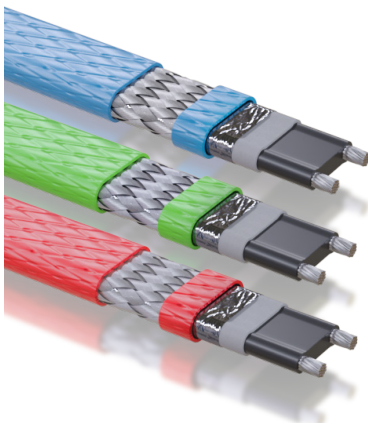
In addition to rigorous performance testing, HLX is third party certified to meet IEC Low Smoke and Zero Halogen standards. Select HLX to ensure that your hot water trace heating complies with the latest building safety requirement and minimize your overall environmental impact.

EASY TO DESIGN

HLX self-regulating heat trace automatically maintains desired water temperatures. The trace heater adjusts its heat output along the entire length of the heat-traced pipe. For each hot water supply line, simply match the hot water maintenance temperature with the corresponding color-coded trace heater and insulate per the design guide.

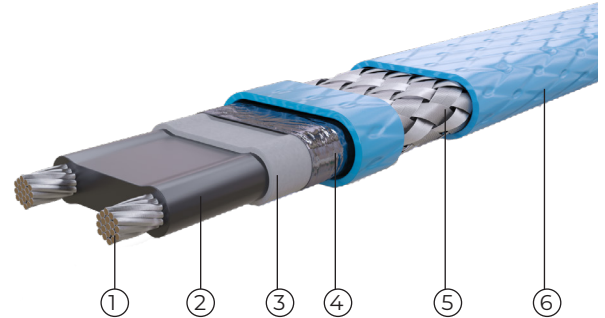
EASY TO INSTALL

HLX heat tracing is cut to length and installed directly on the supply piping under conventional thermal insulation with ordinary hand tools. Kits for power connection, end termination and splicing, plus other accessories, are designed for quick and easy installation



HLX COLOR CODING

HLX-40-2 & HLX-45-2**BLUE**
HLX-50-2 & HLX-55-2**GREEN**
HLX-60-2**RED**



CHARACTERISTICS

1. 1.23 mm² (16 AWG) Nickel-Plated Copper Bus Wire
2. E-Beam Cross-Linked Polyolefin Semiconductive Heating Matrix
3. E-Beam Cross-Linked LSZH Polyolefin Primary Dielectric Insulation
4. Polymer Coated Aluminum Foil
5. Tinned Copper Metallic Braid
6. LSZH Polyolefin Outer jacket

RATINGS

Supply voltages.....200-277 Vac¹
Nominal Maintain Temperatures.....40°C (104°F),
45°C (113°F), 50°C (122°F), 55°C (131°F) & 60°C (140°F)
Ambient Operating Temperature15-27°C (60-80°F)
Max Exposure Temperature (Power Off)....85°C (185°F)
Minimum bend radius
@ -15°C (5°F) 10 mm (0.38")
@ -60°C (-76°F) 32 mm (1.25")

Note 1: Supply voltage range is 208-277 for cCSAus.

ECONOMICAL TO OPERATE AND MAINTAIN

An HLX system replaces recirculation and eliminates the costs of continuously operating pumps, deliberately overheating the water and maintaining a recirculation system. Potential water savings can also be realized since the heat tracing can be installed up to the point of use—no waiting for hot water!

ACCESSORIES

Thermon offers system accessories designed specifically for rapid, trouble-free installation of Thermon heat tracing. All trace heaters require a connection kit to comply with approval requirements. Information on accessories to complete a heater circuit installation can be found in the HLX Systems Accessories product specification sheet.



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TRACE HEATER SELECTION

North America

| Catalog Number | Max Circuit Lengths (by Supply Voltage & Circuit Breaker Size) | | | | | | | | |
|----------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 208V | | | 240V | | | 277V | | |
| | 15A | 20A | 30A | 15A | 20A | 30A | 15A | 20A | 30A |
| HLX 40-2 | 249 m, (817 ft) | 249 m, (817 ft) | 249 m, (817 ft) | 238 m, (782 ft) | 238 m, (782 ft) | 238 m, (782 ft) | 229 m, (750 ft) | 263 m, (863 ft) | 263 m, (863 ft) |
| HLX 50-2 | 150 m, (492 ft) | 195 m, (640 ft) | 195 m, (640 ft) | 143 m, (470 ft) | 191 m, (626 ft) | 201 m, (660 ft) | 145 m, (477 ft) | 187 m, (612 ft) | 220 m, (723 ft) |
| HLX 60-2 | 114 m, (375 ft) | 152 m, (500 ft) | 159 m, (521 ft) | 111 m, (364 ft) | 148 m, (486 ft) | 172 m, (565 ft) | 101 m, (331 ft) | 135 m, (443 ft) | 201 m, (659 ft) |

Note: Sizing based on Type QO/QOB Circuit Breakers; 30 mA ground-fault protection required for each branch circuit supplying electric heating equipment.

Europe & International

| Catalog Number | Max Circuit Lengths (by Supply Voltage & Circuit Breaker Size) | | | | |
|----------------|--|-----------------|-----------------|-----------------|-----------------|
| | 230V | | | | |
| | 10A | 16A | 20A | 25A | 32A |
| HLX 50-2 | 166 m, (544 ft) | 253 m, (829 ft) | 253 m, (829 ft) | 253 m, (829 ft) | 253 m, (829 ft) |
| HLX 55-2 | 109 m, (358 ft) | 169 m, (554 ft) | 169 m, (554 ft) | 188 m, (617 ft) | 205 m, (673 ft) |
| HLX 60-2 | 74 m, (243 ft) | 119 m, (389 ft) | 148 m, (487 ft) | 167 m, (549 ft) | 167 m, (549 ft) |

Note: Sizing based on Type B & C Circuit Breakers; 30 mA ground-fault protection required for each branch circuit supplying electric heating equipment.

Australia

| Catalog Number | Max Circuit Lengths (by Supply Voltage & Circuit Breaker Size) | |
|----------------|--|-----------------|
| | 240V | |
| | 10A | 15A |
| HLX 45-2 | 184 m, (604 ft) | 253 m, (830 ft) |
| HLX 50-2 | 95 m, (313 ft) | 143 m, (470 ft) |
| HLX 60-2 | 74 m, (242 ft) | 111 m, (364 ft) |

Note: Sizing based on Type B & C Circuit Breakers; 30 mA ground-fault protection required for each branch circuit supplying electric heating equipment.

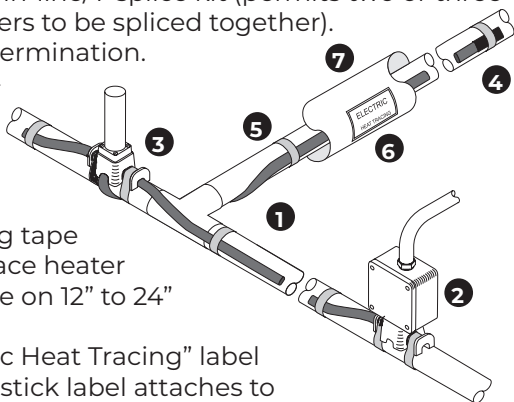
INSTALLATION INSTRUCTIONS

Refer to the HLX Installation instructions for further details when installing an HLX system.

TYPICAL INSTALLATION

An HLX hot water temperature maintenance system will typically include the following components:

1. **HLX** self-regulating heat tracing.
2. **PCA-COM** circuit fabrication kit shown with optional Thermon supplied junction box.
3. **PCS-COM** in-line/T-splice kit (permits two or three trace heaters to be spliced together).
4. **ET-6** end termination.
Each PCA-COM and PCS-COM includes one ET-6.
5. **FT-1L** fixing tape
secures trace heater to pipe; use on 12" to 24" intervals.
6. **CL** "Electric Heat Tracing" label
(peel-and-stick label attaches to insulation vapor barrier on 10' intervals or as required by code or specification).
7. Fiberglass thermal insulation and vapor barrier (by others).



CERTIFICATIONS/APPROVALS



HLX is 3rd Party tested for:
Low Smoke per IEC61034-1 & 2
Zero Halogen per IEC 60754-2 & 3