# HSR

SOLCO. PYROELEC™

Self-regulating heating cable for commercial and construction industries
Freeze protection and temperature maintenance applications

## Use

Freeze protection of water pipelines
Temperature maintenance for schools, hospitals, commercial venues etc.
OEM option available to suit diverse applications

## Specification

Max. maintain temperature (Power-on) 65°C (150°F)
Max. withstand temperature (Power-off) 85°C (185°F)
Temperature Classification (T-rating) : T6 (85°C)
Rated voltage : 200 ~ 277 Vac, (110 ~ 120 Vac available)
Rated power output : 10, 16, 24 & 30 watt/m
Approx dimension
HSR102 ~ HSR242 : 11.4mm x 5.4mm
HSR302 : 13.4mm x 5.4mm
Conductor/Bus wire – ASTM B355 Class 2 NPC, 16 AWG, 1.5mm$^2$
Outer Jacket
FR polyolefin (CP) : Exposure to aqueous inorganic chemicals
Fluoropolymer (CF) : Exposure to organic chemicals or corrosives

## Features

It will not overheat or burn out even when overlapped
It self-regulates thermal performance in response to temperature
It can be cut to any length to suit any installation condition
Independent heat output control along the length
Soft power switching (which improves energy savings and efficiency) and gives a longer service life
Easy termination for power connection, end seal and splicing

## Selection Code

| HSR | 30 | 2 | - | C | P |
|---|---|---|---|---|---|
| ⓐ | ⓑ | ⓒ | | | ⓓ |

| | |
|---|---|
| ⓐ | Model |
| ⓑ | Rated Output 10, 16, 24, 30watt/m@10˚C |
| ⓒ | Rated Voltage 2 : 200 ~ 277 Vac |
| ⓓ | Outer Jacket P : FR Polyolefin, F : Fluoropolymer |

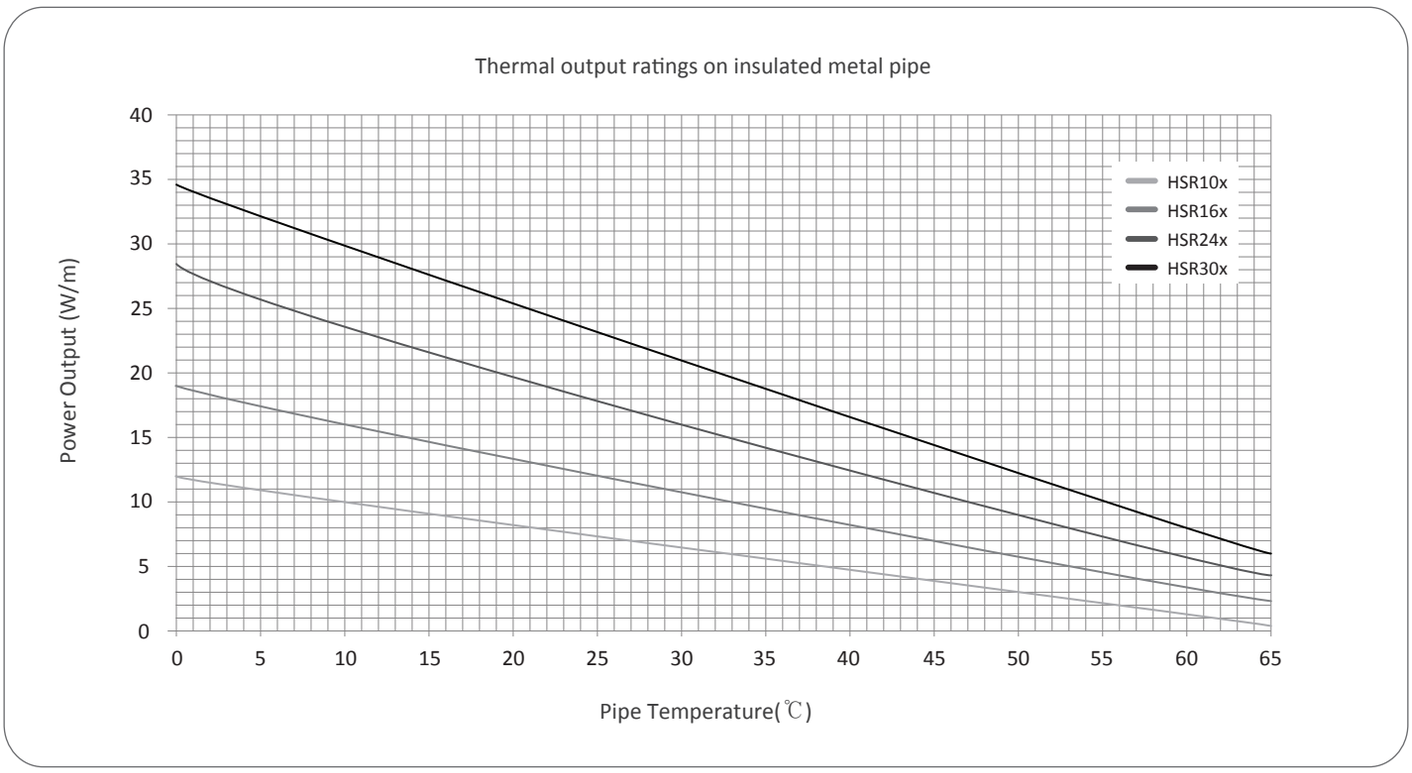
## Certification

KCs CE 1180 Ex FM APPROVED Lloyd's Register UKCA

## Product Drawing

| | |
|---|---|
| Bus Wire | Nickel Plated Copper Wire |
| Polymeric Heating Element | Polyolefin + C/B |
| Primary Insulation | FR Polyolefin |
| Earthing | Braided Tinned Copper Wire Nickel |
| Outer Jacket | PE + C/B FR Polyolefin (-P)<br>PVDF(-F) |

## Power Output Graph




## Circuit Breaker Selection

Max. circuit length(m) at 230Vac based on starting temp. (℃) and typical Type C circuit breaker size (Amps).

| Product code \ Breaker Size(A) | Start-up Temp. -20℃ | | | | | | Start-up Temp. 0℃ | | | | | | Start-up Temp. 10℃ | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10A | 16A | 20A | 25A | 32A | 40A | 10A | 16A | 20A | 25A | 32A | 40A | 10A | 16A | 20A | 25A | 32A | 40A |
| HSR102-CP(F) | 84 | 134 | 155 | 155 | 155 | 155 | 101 | 162 | 169 | 169 | 169 | 169 | 131 | 193 | 193 | 193 | 193 | 193 |
| HSR162-CP(F) | 59 | 94 | 118 | 129 | 129 | 129 | 71 | 113 | 141 | 142 | 142 | 142 | 92 | 147 | 162 | 162 | 162 | 162 |
| HSR242-CP(F) | 42 | 67 | 84 | 104 | 111 | 111 | 36 | 57 | 71 | 89 | 114 | 117 | 50 | 81 | 101 | 126 | 126 | 126 |
| HSR302-CP(F) | 32 | 51 | 64 | 80 | 101 | 101 | 32 | 51 | 64 | 80 | 102 | 113 | 41 | 66 | 82 | 102 | 124 | 124 |