

HSR

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

SOLCO.
Advanced Trace Heating Solutions



Use	Freeze protection of water pipelines Temperature maintenance for schools, hospitals, commercial venues etc. OEM option available to suit diverse applications								
Specifications	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, (100 ~ 120 Vac available) Rated power output : 10, 16, 24 & 30 Watts/m @10°C Dimension (nom.): HSR102 ~ HSR242 : 11.4mm x 5.4mm HSR302 : 13.4mm x 5.4mm Parallel conductors – ASTM B355 Class 2 NPC, AWG 16 (1.5mm²) 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 Smooth transition switching power ON and OFF, minimising stress in the heating cable core, leading to improved energy efficiency and extending service life Easy termination for power connection, end seal and splicing								
Selection Code	HSR (a) 30 (b) 2 (c) - C P (d) <table><tr><td>(a)</td><td>Model</td></tr><tr><td>(b)</td><td>Rated Output 10, 16, 24, 30 Watts/m @10°C</td></tr><tr><td>(c)</td><td>Rated Voltage 1: 100 ~ 120 Vac , 2 : 200 ~ 277 Vac</td></tr><tr><td>(d)</td><td>Outer Jacket P : FR Polyolefin, F : Fluoropolymer</td></tr></table>	(a)	Model	(b)	Rated Output 10, 16, 24, 30 Watts/m @10°C	(c)	Rated Voltage 1: 100 ~ 120 Vac , 2 : 200 ~ 277 Vac	(d)	Outer Jacket P : FR Polyolefin, F : Fluoropolymer
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Certification	CE UKCA								

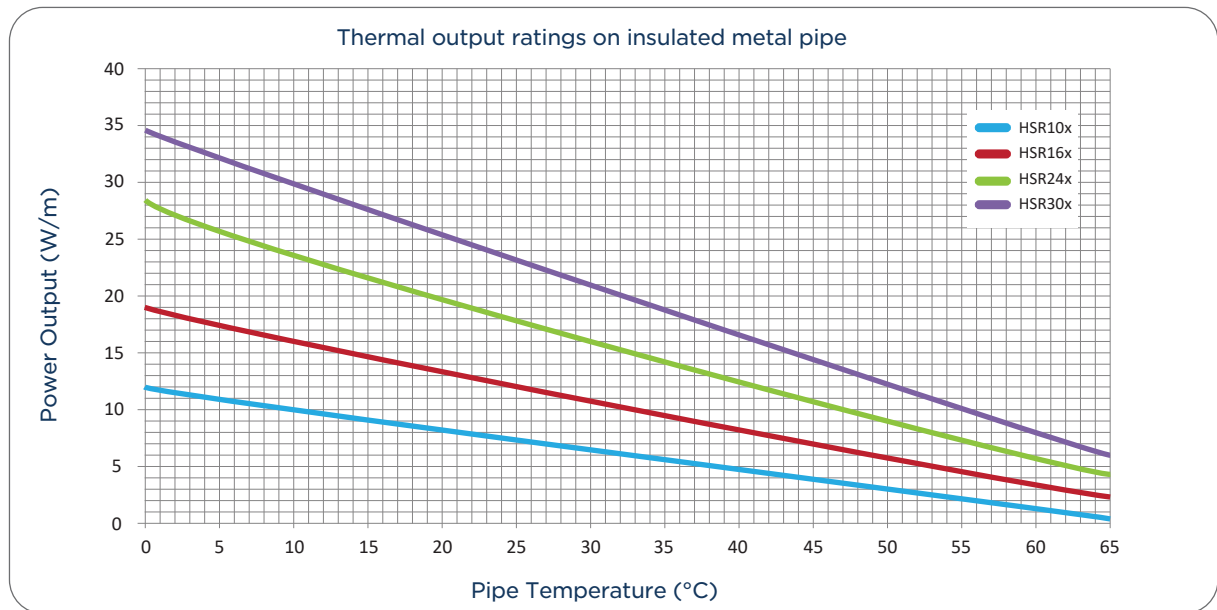
Product Drawing



- Parallel Conductors
- Polymeric Heating Element
- Primary Insulation
- Earthing
- Outer Jacket

- Nickel Plated Copper Wire
- Polyolefin + C/B
- FR Polyolefin
- Braided Tinned Copper Wire Nickel
- PE + C/B FR Polyolefin (-P)
- PVDF(-F)

Power Output Graph



Circuit Breaker Selection

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

Product code \ Breaker Size(A)	Start-up Temp. -20°C						Start-up Temp. 0°C						Start-up Temp. 10°C					
	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

Max. circuit length(m) at 110Vac based on starting temp. (°C) and typical Type C circuit breaker size (Amps).

Product code \ Breaker Size(A)	Start-up Temp. -20°C						Start-up Temp. 0°C						Start-up Temp. 10°C					
	10A	16A	20A	25A	32A	40A	10A	16A	20A	25A	32A	40A	10A	16A	20A	25A	32A	40A
HSR101 -CP(F)	42	63	71	N/A	N/A	N/A							76	87	87	87	87	N/A
HSR161 -CP(F)	19	29	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39	58	71	71	71	N/A
HSR241 -CP(F)	9	14	19	N/A	N/A	N/A							19	29	38	48	57	N/A
HSR301 -CP(F)	8	12	16	N/A	N/A	N/A							15	22	30	37	45	N/A