

HTLe

Features

- Energy efficient automatically varies its power output in response to pipe temperature changes.
- Easy to install, can be cut to any length (up to max circuit length) required on site with no wasted cable.
- Lower installed cost than steam tracing, less maintenance expense and less downtime.
- No overheat or burnout even when wrapped over itself (overlapped).
- Suitable for use in non-hazardous, hazardous and corrosive environments.
- Jiahong power connection, splice, tee and end seal kit will reduce installation time.

Heating cable construction



Description

HTLe increases or decreases the heat output in a self-regulating way depending on the change of the ambient temperature, so a thermostat may not be necessary in some applications and it will never overheat or burnout even when wrapped over itself (overlapped). With optional outer-jacket, the heating cable is resistant to watery and inorganic chemicals and protects against abrasion and impact damage.

HTLe is suitable for use in explosion-hazardous areas up to a maximally admissible work-piece temperature of 150 °F (65 °C). Jiahong provides termination, power connection, splice, tee and end seal kit will reduce installation time and require no special skills or tools.

Options

- HTLe...C** Tinned copper braid provides additional mechanical protection and a positive ground path.
- HTLe...CR** Flame retardant thermoplastic outer jacket protects against certain inorganic chemical solutions, it also protects against abrasion and impact damage.
- HTLe...CT** High-Temperature Fluoropolymer outer jacket is used for exposure to organic or corrosive solutions or vapors may be present.

Application

HTLe is a UL listed self-regulating parallel heating cable (heating tape), is designed for residential and commercial metal and plastic pipe freeze protection and roof and gutter de-icing applications. It is ideal for use in maintaining fluid flow under low ambient. Freeze-protection and low watt density process temperature systems such as pipelines, fire protection, process water, dust suppression systems, hot water and structure anti-icing are typical applications for this product. UV stabilized thermoplastic elastomer outer jacket is provided to cover the braid for wet applications and exposure to the sun.

Technical data

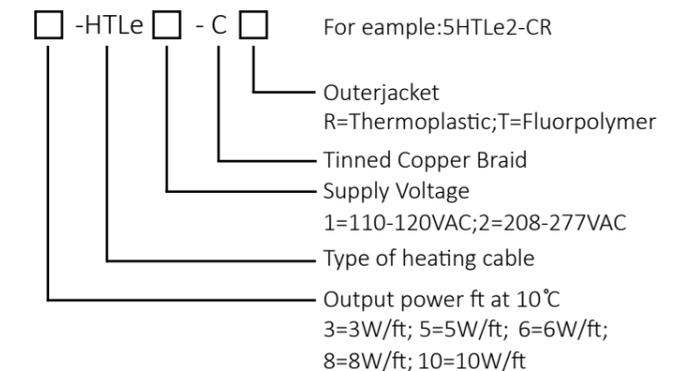
Service voltage	110-120V, 208-277V
Maximum maintain or continuous exposure temperature(power on)	+65 °C (150 °F)
Maximum intermittent exposure Temperature, 1000 hours (power on or off)	+85 °C (185 °F)
Minimum installation temperature	-40 °C (-40 °F)
Protective braid resistance	< 18.2Ω/km
Bus wire gauge	16AWG
Approvals	UL / IECEx / ATEX / EAC/ CE

Dimension and weight

Type	Dimension	Weight (kg/100m)
HTLe...C	9.3×4.4mm	8.2
HTLe...CR	10.9×6.0mm	11.0
HTLe...CT	10.3×5.4mm	10.5

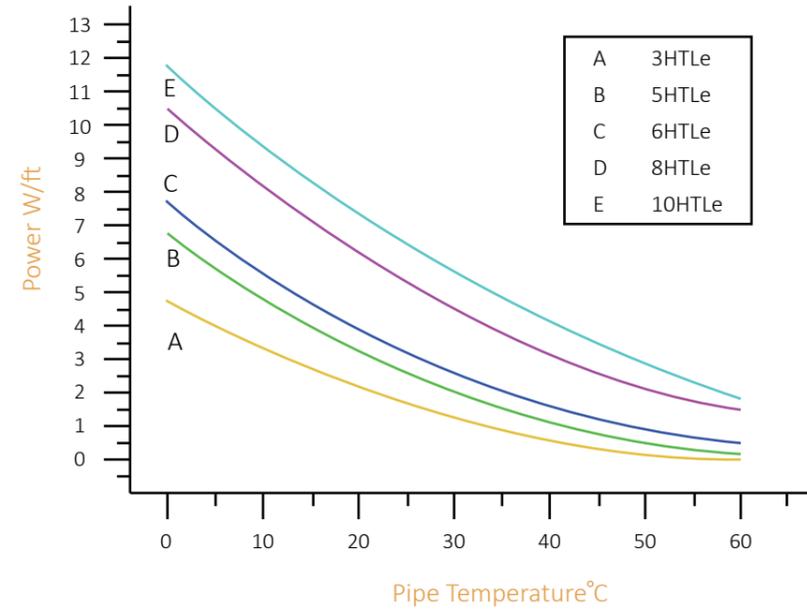
Minimum bend radius@68 °F (20 °C): 12 mm

Product ordering information



Power output curves

Nominal power output at 240V when HTLe installed on insulated metal pipes.



Adjustment factors

	Power output		Circuit length	
	208V	277V	208V	277V
3HTLe	0.82	1.13	0.96	1.08
5HTLe	0.85	1.12	0.94	1.09
6HTLe	0.86	1.10	0.93	1.10
8HTLe	0.89	1.08	0.92	1.11
10HTLe	0.89	1.08	0.92	1.11

Maximum circuit length (in feet) per circuit breaker

	Ambient temperature at start-up		120V				240V			
			15A	20A	30A	40A	15A	20A	30A	40A
3HTLe	50 F	(10 C)	330	330	330	330	660	660	660	660
	32 F	(0 C)	330	330	330	330	660	660	660	660
	14 F	(-10 C)	270	280	330	330	540	560	660	660
	0 F	(-18 C)	200	265	330	330	395	530	660	660
	-20 F	(-29 C)	175	235	330	330	350	465	660	660
	-40 F	(-40 C)	155	205	310	330	310	140	620	540
5HTLe	50 F	(10 C)	230	270	270	270	460	540	540	540
	32 F	(0 C)	230	270	270	270	460	540	540	540
	14 F	(-10 C)	180	210	270	270	360	420	540	540
	0 F	(-18 C)	140	190	270	270	285	380	540	540
	-20 F	(-29 C)	125	165	250	270	250	330	500	540
	-40 F	(-40 C)	110	145	220	270	220	295	440	540
6HTLe	50 F	(10 C)	200	235	245	245	405	470	490	490
	32 F	(0 C)	200	235	245	245	405	470	490	490
	14 F	(-10 C)	160	200	235	245	320	400	475	490
	0 F	(-18 C)	125	170	135	245	255	340	475	490
	-20 F	(-29 C)	110	150	220	245	225	300	440	490
	-40 F	(-40 C)	100	130	195	240	195	260	400	480
8HTLe	50 F	(10 C)	150	200	210	210	300	400	420	420
	32 F	(0 C)	150	200	210	210	300	400	420	420
	14 F	(-10 C)	140	150	205	210	280	300	410	420
	0 F	(-18 C)	100	130	200	210	200	265	400	420
	-20 F	(-29 C)	85	115	175	210	175	235	350	420
	-40 F	(-40 C)	80	105	155	210	155	210	315	420
10HTLe	50 F	(10 C)	120	160	180	180	240	315	360	360
	32 F	(0 C)	105	140	170	180	210	280	340	360
	14 F	(-10 C)	95	125	165	180	190	250	330	360
	0 F	(-18 C)	80	110	160	180	160	215	325	360
	-20 F	(-29 C)	70	95	140	180	145	190	285	360
	-40 F	(-40 C)	60	85	125	170	125	170	255	340