

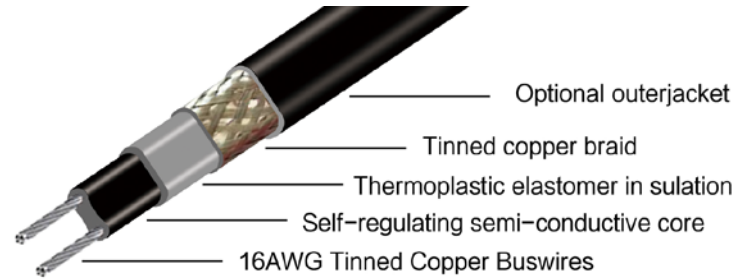
## Features

- 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.
- To use power connection, splice, tee and end seal kit will reduce installation time.

FSN increasing or decreasing the heat output in a self-regulating way depending on the change of the ambient temperature, so a thermostat may not necessary in some applications and it will never overheat or burnout even when wrapped over itself(overlapped). With optional outerjacket, the heating cable is resistant to watery and inorganic chemicals and protect against abrasion and impact damage . FSN is suitable for use in explosion-hazardous areas up to a maximally admissible work-piece temperature of +65°C. Form Müh. provide termination, power connection, splice, tee and end seal kit will reduce installation time and require no special skills or tools.

## Appliance

FSN-xx-Cx is self-regulating parallel heating cable (heating tape) is designed for a variety of industrial applications and environments, including hazardous and non-hazardous. It can be used for plastic or mental pipe freeze protection and flow maintenance of pipes, tanks, valves. It also can be used in roof and gutter de-icing applications. A UV stabilized thermoplastic elastomer overjacket is provided to cover the braid for wet applications and exposure to the sun.



## Options

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

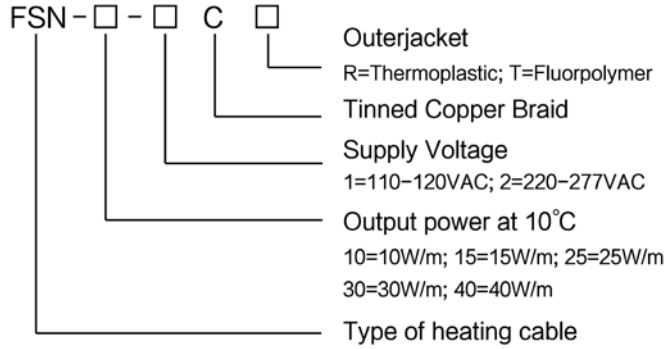
## Technical date

Service voltage	110-120V,220-277V
Maximum maintain or continuous exposure temperature(power on)	+65°C(149°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	cULus CE GOST ATEX IECEX

## Power output curves

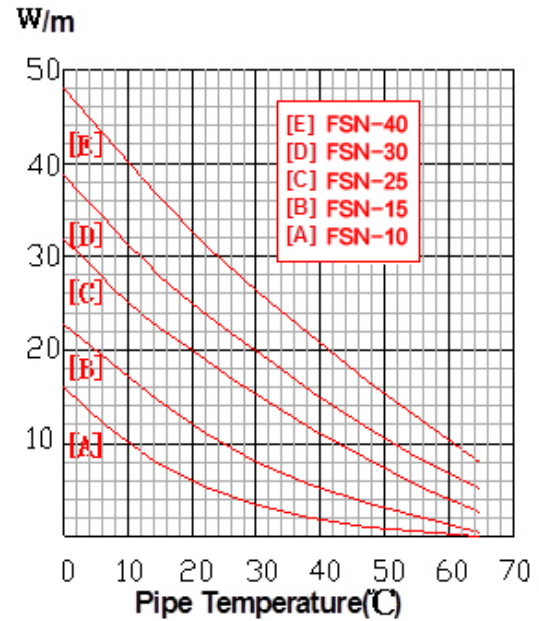
Type	Dimension	Min.bending radius	Weight (kg/100m)
<b>FSN...C</b>	11.0x4.4mm	26mm	10.5
<b>FSN...CR</b>	12.6x6.0mm	36mm	13.8
<b>FSN...CT</b>	12.0x5.4mm	32mm	13.0

## Product ordering information



## Power output curves

Nominal power output at 230V when FSN installed on insulated metal pipes.



## Maximum length(m) vs circuit breaker size

Minimum Start-up temperature	CB size Amps	FSN10 230V		FSN15 230V		FSN25 230V		FSN30 230V		FSN40 230V	
		ft	m	ft	m	ft	m	ft	m	ft	m
10°C (50°F)	10	485	148	324	99	246	75	147	45	111	34
	16	643	196	498	152	354	108	242	74	183	56
	20	660	201	530	161	406	124	295	90	229	70
	30	660	201	530	161	420	128	315	96	229	69
	40	660	201	530	161	420	128	360	109	240	73
0°C (32°F)	10	396	121	269	82	203	62	111	34	78	24
	16	606	185	429	131	291	89	177	54	124	38
	20	643	196	505	154	360	110	216	66	160	49
	30	643	196	505	154	360	110	246	75	180	55
	40	643	196	505	154	360	110	315	96	210	94
-20°C (-4°F)	10	275	84	209	64	108	33	85	26	59	18
	16	436	133	337	103	183	56	131	40	91	28
	20	530	161	433	132	229	70	164	50	124	38
	30	557	170	480	146	350	106	215	65	158	48
	40	557	170	480	146	350	106	215	65	158	48
-40°C (-40°F)	10	232	71	160	49	104	32	68	21	49	15
	16	377	115	255	78	164	50	114	35	85	26
	20	449	137	328	100	206	63	141	43	98	30
	30	530	161	400	122	275	84	170	52	120	36
	40	530	161	400	122	320	97	215	65	158	48