SENSEWELL
INSTRUMENTS PVT. LTD.
Industrial Instrumentation & Automation

HTP

Features

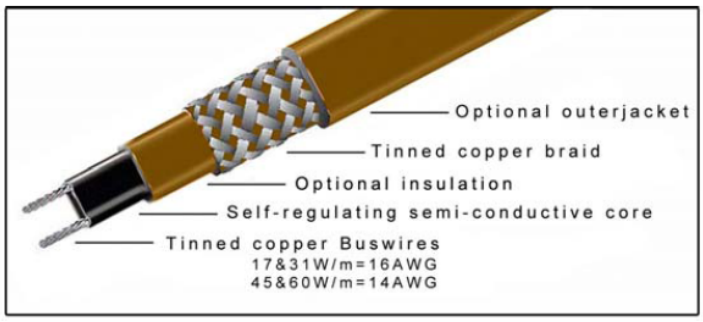
- Energy efficient, automatically varies its power output in response to pipe temperature changes.
- Easy to install, can be cut to any length(up to max circuit length) required on site with no wasted cable.
- Lower installed cost than steam tracing, less maintenance expense and less downtime.
- No overheat 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.

Description

HTP 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 . HTP is suitable for use in explosion-hazardous areas up to a maximally admissible work-piece temperature of +110℃. Jiahong provide termination, power connection, splice, tee and end seal kit will reduce installation time and require no speical skills or tools.

Appliance

HTP is UL listed self-regulating parallel heating cable (heating tape) is designed for pipe heat tracing in industrial applications, it is configured for use in hazardous and non-hazardous locations, including areas where corrosives may be present. It can provide process-temperture maintenance up to 110℃(230℉) and it can also be used for frost protection of large pipes and freeze protection in systems having high heat loss.



Options

-HTP…C Tinned copper braid provide additional mechanical protection and a positive ground path.

-HTP…CR Flame retardant thermoplastic overjacket protect against certain inorganic chemical solutions, it also protect against abrasion and impact damage.

-HTP…CT High Temperature Fluoropolymer overjacket are used for exposure to organic or corrosive solutions or vapours may bepresent.

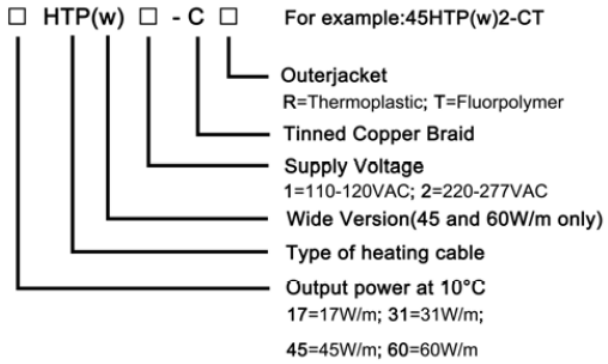
Technical date

Service voltage	110-120V,220-277V
Maximum maintain or continuous exposure temperture(power on)	+110℃(230℉)
Maximum intermittent exposure Temperture, 1000 hours(power on or off)	+135℃(275℉)
Minimum installation temperture	-30℃(-22℉)
Protective braid resisitance	< 18.2Ω/km
Bus wire gauge	16AWG(17&31W/m) 14 AWG (45&60W/m)
Approvals	

Dimension and weight

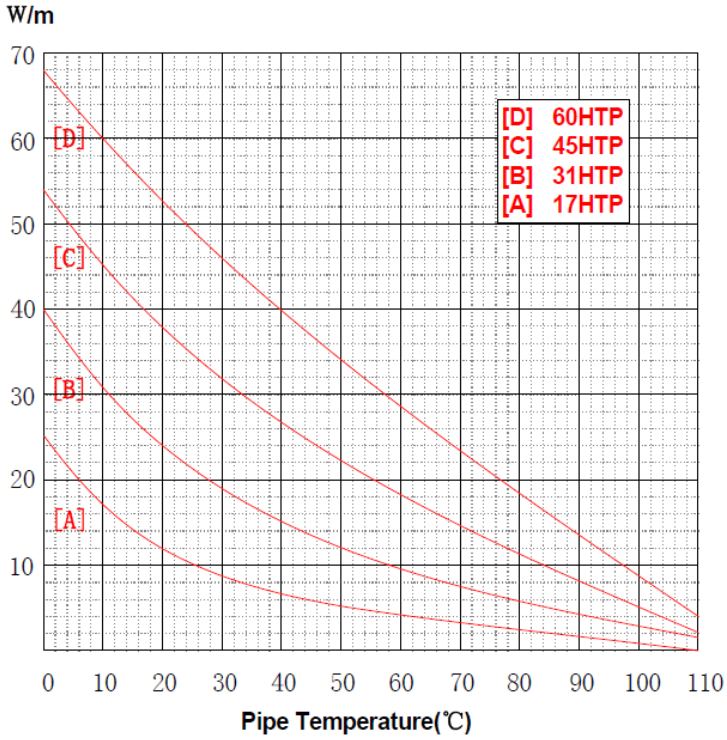
Type	Dimension	Min.bending radius	Weight (kg/100m)
-HTP…C	12.0*4.4	26mm	9.5
-HTP…CR	13.6*6.0	36mm	11.0
-HTP…CT	12.4*4.8	28mm	13.9
-HTPw…C	13.9*5.0	30mm	13.0
-HTPw…CR	15.5*6.6	39mm	16.9
-HTPw…CT	13.3*5.4	32mm	17.2

Product ordering information



Power output curves

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



Maximium length(m) vs circuit breaker size

Minimum Start-up temperature	CB size Amps	17HTP 230V ft	17HTP 230V m	31HTP 230V ft	31HTP 230V m	45HTP 230V ft	45HTP 230V m	60HTP 230V ft	60HTP 230V m
10℃(50℉)	10	220	67	150	46	114	35	101	31
	16	265	81	200	61	187	57	164	50
	20	390	119	265	81	239	73	203	62
	30	420	128	347	106	308	94	262	80
	40	420	128	347	106	308	94	300	91
0℃(32℉)	10	160	49	145	44	101	31	82	25
	16	210	64	190	58	173	53	144	44
	20	320	98	295	90	216	66	180	55
	30	390	119	360	110	265	81	229	70
	40	390	119	350	106	265	81	255	78
-20℃(-4℉)	16	195	59	160	49	114	35	101	31
	20	295	90	249	76	141	43	134	41
	30	365	111	311	95	180	55	167	67
	40	340	104	311	95	160	49	220	51
-40℃(-40℉)	16	180	55	140	43	108	33	98	30
	20	275	84	200	61	137	42	121	37
	30	360	110	280	86	173	53	147	45
	40	330	101	260	79	160	49	190	58

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CIN No. U29119GJ2002PTC041475

HTS

Features

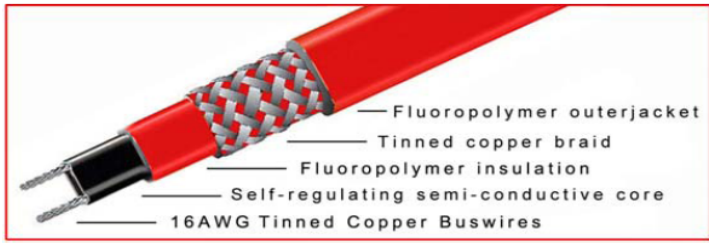
- Energy efficient, automatically varies its power output in response to pipe temperature changes.
- Easy to install, can be cut to any length(up to max circuit length) required on site with no wasted cable.
- Lower installed cost than steam tracing, less maintenance expense and less downtime.
- No overheat 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.

Description

HTS 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. HTS is suitable for use in explosion-hazardous areas up to a maximally admissible work-piece temperature of +150℃. Jiahong provide termination, power connection, splice, tee and end seal kit will reduce installation time and require no speical skills or tools.

Appliance

HTS is an industrial grade, self-regulating parallel heating cable (heating tape) to BS6351 Grade 22 that can be used for applications ranging from process heating or maintenance of temperture up to 150℃. It can be used in hazardous and non-hazardous locations, including areas where corrosives may be present.



Options

-HTS...C Tinned copper braid provide additional mechanical protection and a positive ground path.

-HTS...CT High Temperature Fluoropolymer overjacket are used for exposure to organic or corrosive solutions or vapours may be present.

Technical date

Service voltage	110-120V,220-277V
Maximum maintain or continuous exposure temperture(power on)	+120℃ (248℉)
Maximum intermittent exposure Temperture, 1000 hours(power on or off)	+200℃ (392℉)
Minimum installation temperture	-30℃ (-22℉)
Protective braid resisitance	< 18.2Ω/km
Bus wire gauge	16AWG
Approvals	

Dimension and weight

Type	Dimension	Min.bending radius	Weight (kg/100m)
-HTS…C	9.2×3.6mm	21mm	11.2
-HTS…CT	10.2×4.6mm	27mm	14.0

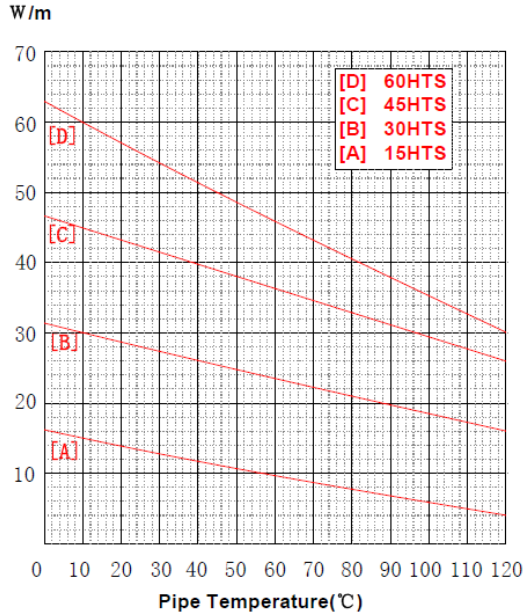
Product ordering information

☐ HTS ☐ - C ☐ For example:60HTS2-CT

- Outerjacket
  T=Fluorpolymer
- Tinned Copper Braid
- Supply Voltage
  1=110-120VAC; 2=220-277VAC
- Type of heating cable
- Output power at 10°C

Power output curves

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



Maximium length(m) vs circuit breaker size

Minimum Start-up temperature	CB size Amps	15HTS 230V ft	15HTS 230V m	30HTS 230V ft	30HTS 230V m	45HTS 230V ft	45HTS 230V m	60HTS 230V ft	60HTS 230V m
10℃(50℉)	10	240	73	146	45	100	31	77	23
	16	360	109	236	72	150	46	115	35
	20	479	146	295	89	200	61	150	46
	30	518	158	440	134	285	87	230	70
	40	531	162	510	155	380	116	306	93
0℃(32℉)	10	220	67	138	42	93	28	70	21
	16	350	106	220	67	130	39	110	34
	20	430	130	280	85	180	55	142	43
	30	490	150	400	122	270	82	210	64
	40	510	155	480	146	350	107	286	87
-20℃(-4℉)	10	210	64	130	39	83	25	67	20
	16	315	96	195	59	125	38	100	30
	20	380	115	260	79	165	50	135	41
	30	480	146	364	111	250	76	200	122
	40	500	152	440	134	335	110	265	81
-40℃(-40℉)	10	180	54	116	35	80	24	63	19
	16	285	87	175	53	120	36	95	29
	20	360	38	235	72	160	49	125	38
	30	450	108	350	107	240	73	190	58
	40	480	146	460	140	320	97	250	76

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Dimension and weight

Type	Dimension	Min.bending radius	Weight (kg/100m)
-HTR...C	11.0×4.4mm	26mm	10.5
-HTR...CR	12.6×6.0mm	36mm	13.8
-HTR...CT	12.0×5.4mm	32mm	13.0

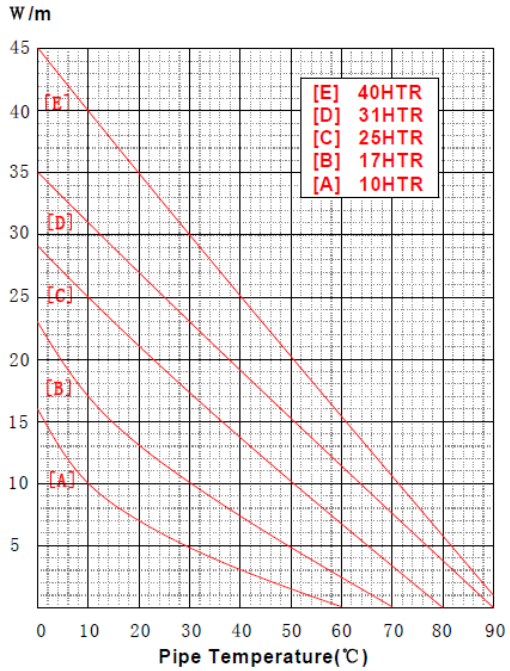
Product ordering information

☐ HTR ☐ - C ☐ For example:17HTR2-CT

- Outerjacket: R=Thermoplastic; T=Fluorpolymer
- Tinned Copper Braid
- Supply Voltage: 1=110-120VAC; 2=220-277VAC
- Type of heating cable
- Output power at 10°C

Power output curves

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



Maximium length(m) vs circuit breaker size

Minimum Start-up temperature	CB size Amps	10HTR 230V ft	10HTR 230V m	17HTR 230V ft	17HTR 230V m	25HTR 230V ft	25HTR 230V m	31HTR 230V ft	31HTR 230V m	40HTR 230V ft	40HTR 230V m
10℃(50℉)	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℃(32℉)	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℃(-4℉)	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℃(-40℉)	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

SENSEWELL
INSTRUMENTS PVT. LTD.

AN ISO 9001-2015 CERTIFIED COMPANY

HEAT TRACE CABLE

(PSR)

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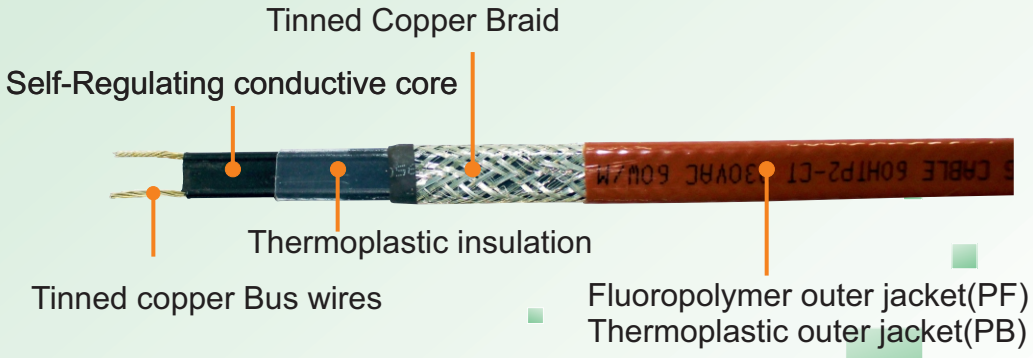
HEAT TRACE CABLE

- **MODEL:- PSR (ATEX / EX-PROOF)**
- **TEMP.: UPTO 135°C EXPOSURE TEMP. RANGE AND MAINTAIN TEMP. 85°C**
- **CABLE CONSTRUCTION**



INTRODUCTION

- Sensewell PSR Self Regulating Heating Cables provide the most versatility in heat trace designs and applications.
- Constructed of a semiconductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperatures all along its length.
- As temperature increasing. the heater's resistance increases, which lower the output wattage. Conversely, as the temperature decreasing, the resistance decreases and the cable produces more heat.
- So it is no need thermostat in some applications. It will never overheat or burnout even when wrapped by itself (overlapped).
- It can also be cut to any length.
- The result - an energy efficient heating cable.
- With optional outer jackets. the heating cable is resistant to watery and inorganic chemicals and protects against abrasion and impacts damage.

APPLICATION

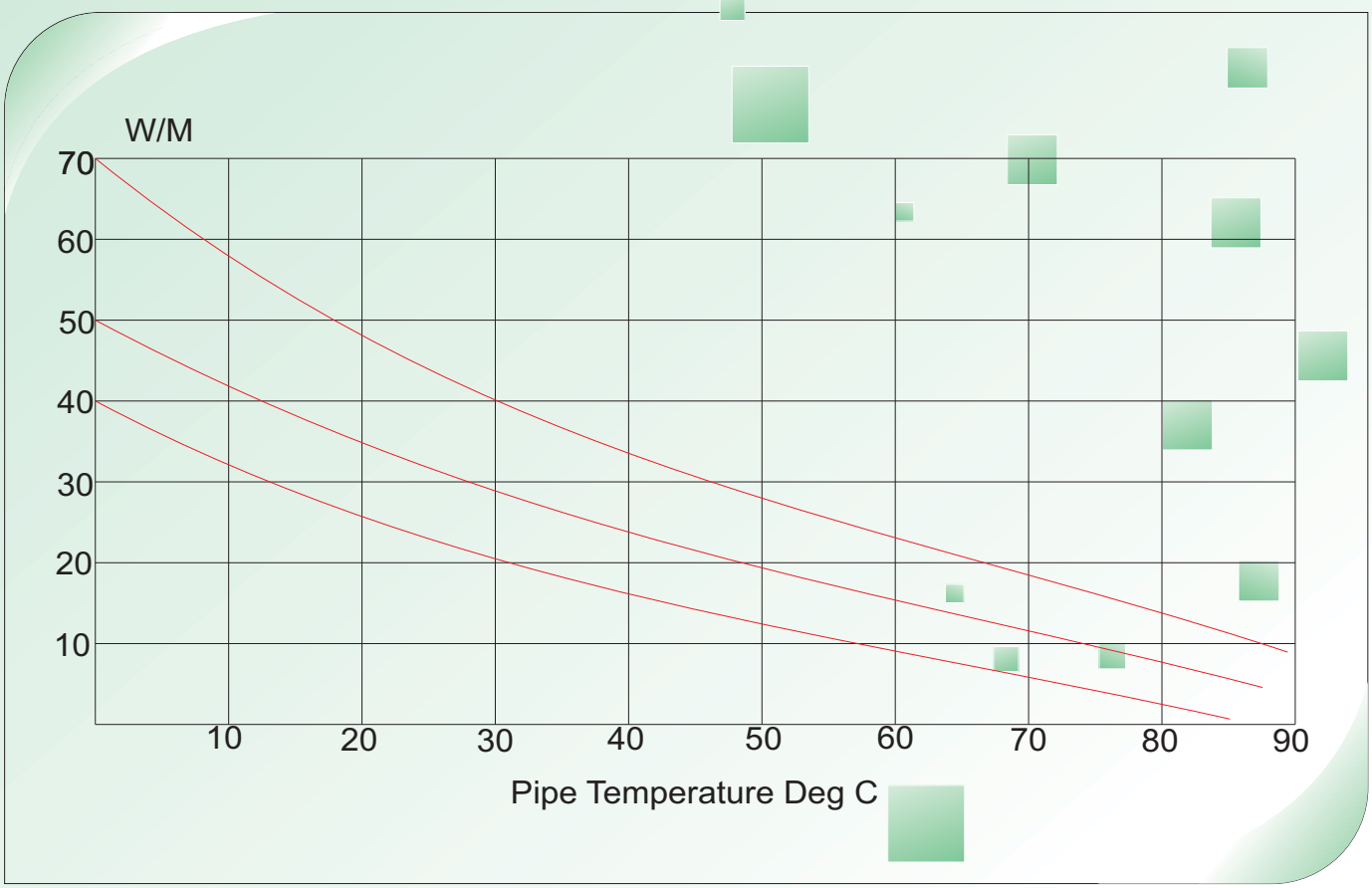
- PSR is designed for pipe heat trace in industrial applications.
- It is ideally used for process temperature maintenance and frost protection of large diameter pipelines, tanks, valves, flanges and other applications where high heat loss happen.
- It is suitable for non-hazardous area, also hazardous area and corrosive area can use products with fluoroplymer outer jacket.

POWER OUTPUT

Nominal	**A**	**30 PSR**
Output at 230 VAC	**B**	**45 PSR**
@ +10°C	**C**	**60 PSR**

☐ PSR ☐ -P ☐ For example:45PSR2-PB

Outer Jacket
F=Fluorpolymer B=Thermoplastic
Tinned Copper Braid
Supply Voltage
1=110-120VAC; 2=220-240VAC
Type of heating cable
Output power at 10°C



Part number	Output power@-10°C (W/m)	Maximum maintain temp (°C)	Max length @ 10°C 16/30A(m)	Max length @ 0°C 16/30A(m)	Max length @ -20°C 16/3DA(m)	Dimension	Weight (kg/100 m)
30PSR-PB	30	85	102/122	90/110	85/115	12.8x5.6	10.8
30PSR-PF	30	85	102/122	90/110	85/115	12.8x5.3	10.2
45PSR-PB	45	85	87/107	70/90	62/80	12.8x5.6	10.8
45PSR-PF	45	85	87/107	70/90	62/80	12.8x5.2	10.2
60PSR-PB	60	85	70/95	55/75	47/67	12.8x5.6	10.8
60PSR-PF	60	85	70/95	55/75	47/67	12.8x5.3	10.2

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SENSEWELL CALIBRATION SERVICES
NABL LAB.

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SENSEWELL INSTRUMENTS PVT.LTD.

SPECIALIST OF COSTOMIZED HEATING SOLUTION, DESIGN & AUTOMATION

HEAT TRACE CABLE

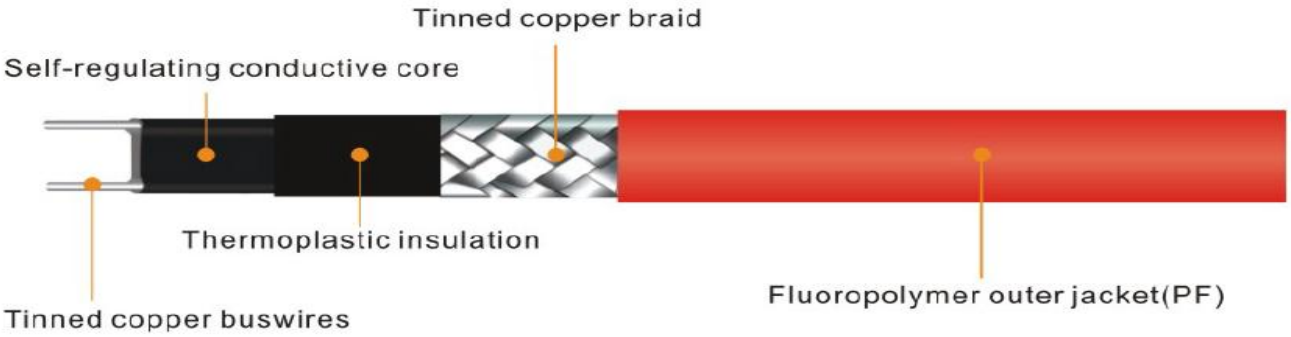
MODEL:- SSR (ATEX / EX-PROOF)

TEMP.: UPTO 110°C HEAT TRACING CABLE

Introduction

SSR Self Regulating Heating Cables provide the most versatility in heat trace designs and applications. Constructed of a semiconductive heater matrix extruded between parallel bus wires, a self–regulating cable adjusts its output to independently respond to ambient temperatures all along its length. As temperature increasing, the heater's resistance increases which lower the output wattage. Conversely, as the temperature decreasing, the resistance decreases and the cable produces more heat. So it does not need thermostat in some applications. It will never overheat or burnout even when wrapped by itself (overlapped). It can also be cut to any length. The result —an energy efficient heating cable.

Cable Construction



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Technical data

Output Wattage:	35, 45, 60(W/m)
Maximum maintain temperature:	110°C
Maximum exposure temperature:	135°C
Minimum installation temperature:	-40°C
Work voltage:	110V- 120V / 220-240V

Application

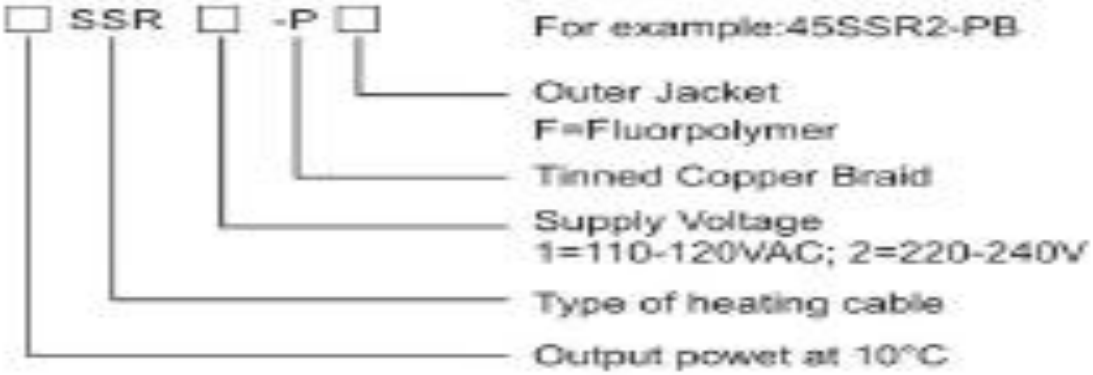
SSR is ideally used for process temperature maintaince and frost protection of large diameter pipelines, tanks, valves, flanges, and other industrial application where have high heat loss. It is suitable for hazardous area, also non-hazardous area and corrosive area can use products with fluoroplymer outer jacket.

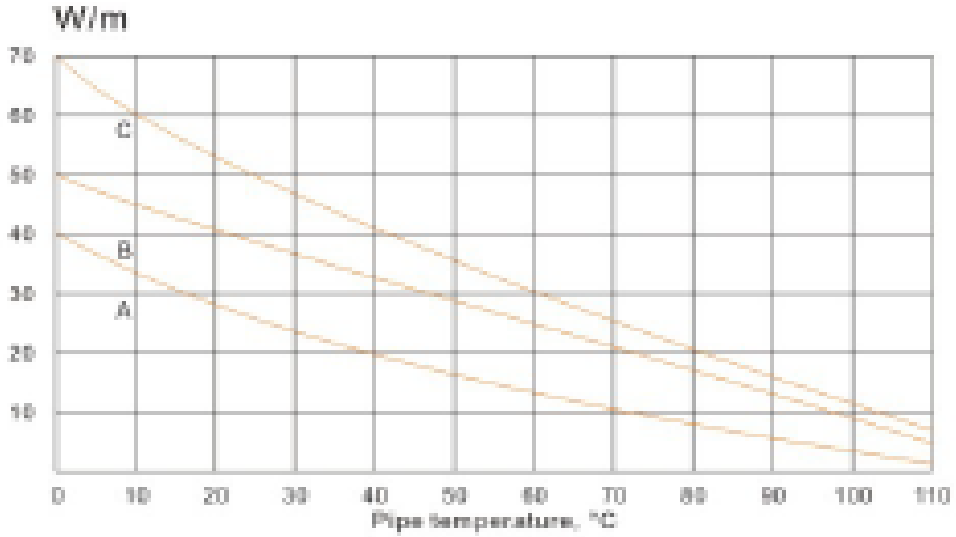
SSR Series:

SSR-P:	Tinned copper metal braid
SSR-PF:	Fluoropolymer outer jacket
Max resistance of braid	≤18.2Ω/km
Bus wire gauge	16AWG
Approvals:	CE PG

Power Output

Nominal	A	35PSR
output at 230 VAC	B	45PSR
@+10°C	C	60PSR





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Technical Summary

Part Number	Output power @ + 10°C (W/m)	Maximum maintain temperature (°C)	Max length @ +10°C 16/30A (m)	Max length @ + 0°C 16/30A (m)	Max length @ -20°C 16/30A (m)	Dimension (mm)	Weight (kg/100m)
35SSR-PF	35	110	75/100	65/90	45/60	13.3X6.1	12.5
45SSR-PF	45	110	60/85	50/75	35/50	13.3X6.1	12.5
60SSR-PF	60	110	50/70	40/60	30/45	13.3X6.1	12.5

SENSEWELL INSTRUMENTS PVT. LTD. **UNIT – I** 54/4, G.I.D.C., Makarpura, Vadodara – 390010, Gujarat, India. **Ph : +91 265 2658711 / 22**, Mail : sales@sensewellindia.com Web : www.sensewellindia.com	**SENSEWELL INSTRUMENTS PVT. LTD.** **UNIT – II** 573,574,591,592, G.I.D.C. PO Alindra, Manjusar - 391775, Savli, Dist. Vadodara, Gujarat, India. **Ph : +91 2667 292952**	**SENSEWELL CALIBRATION SERVICES** **NABL LAB.** A-1/922/20, G.I.D.C. ESTATE, MAKARAPURA, BARODA –390010, GUJARAT, INDIA. **Ph. No. : 0265-2638711**