

SC ELECTRIC

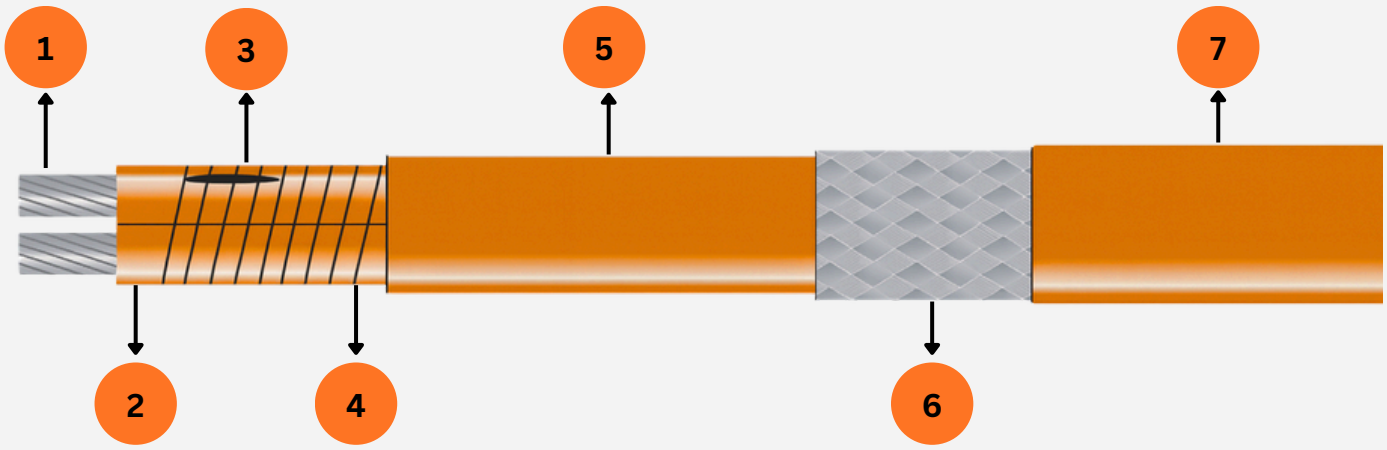
# ELECTRICAL HEAT TRACING CATALOGUE

# CONSTANT WATTAGE HEAT TRACING CABLE- CWA

SC Electric's CWA Constant Wattage Heating Cables deliver precise, uniform heat along their entire length — ensuring consistent temperature maintenance even in the most demanding environments.
Engineered using parallel-resistance technology, these cables maintain a steady output regardless of ambient temperature. Ensuring no overheating& no cold spots — just dependable heat every time.

## KEY FEATURES

- Withstand Temp upto 260°C
- Available in outputs upto 50W/m
- Cut to Length
- Highly Flexible
- Robust Construction
- Efficient Heat Transfer
- Available for 110/120 and 220/240 VAC
- Compact Size




| | MODEL: CWA-SS-BS | MODEL: CWA-FF-BF |
|---|---|---|
| 1 | 2 × 1.5 mm² multistrand tinned copper Bus Bar Wires | 2 × 1.5 mm² multistrand tinned copper Bus Bar Wires |
| 2 | Silicon Busbar Insulation | Silicon / Fluoropolymer Insulation (Optional) |
| 3 | Parallel Circuit Connection | Parallel Circuit Connection |
| 4 | Nichrome Heating Element | Nichrome Heating Element |
| 5 | Silicon Inner Insulation | Fluoropolymer Inner Insulation |
| 6 | Metallic Braid - Tinned Copper | Metallic Braid - Tinned Copper |
| 7 | Silicon Outer Insulation | Fluoropolymer Outer Insulation |

# TECHNICAL DATA

| | |
|---|---|
| Rated Voltage | 220-240 VAC<br>or 110-120 VAC |
| Available Outputs | 6.6, 13, 23, 33, 50 W/m |
| Maximum Continuous Operating Temperature (energised) | 150°C |
| Maximum Continuous Operating Temperature (Un-energised) | 260°C |
| Ambient Temperature Range | Silicon: -20 to +55°C<br>Fluoropolymer: -40 to +55°C |

# MAXIMUM CIRCUIT LENGTHS

For Use with Type C Circuit Breaker according to IEC 60898-1:2015

| OUTPUT W/m | 110V | 230V |
|---|---|---|
| 6.6 W/m | 80 | 160 |
| 13 W/m | 57 | 114 |
| 23 W/m | 44 | 88 |
| 33 W/m | 35 | 70 |
| 50 W/m | 28 | 59 |

## WEIGHT & DIMENSIONS

| Type | Nom. Dims (mm) | Weight kg/100m | Min Bending Radius (mm) | Gland Size |
|---|---|---|---|---|
| CWA | 8.2 X6.0 | 7.5 | 10 | M16 |
| CWA-SS-B | 9.0 X 6.8 | 11.8 | 12 | M16 |
| CWA-FF-B | 8.8 X 6.6 | 11.8 | 16 | M16 |
| CWA-SS-BS | 11.0 X 8.8 | 14.4 | 15 | M20 |
| CWA-FF-BF | 10.2 X 8.0 | 14.4 | 25 | M20 |

## MARKINGS

EXAMPLE - 33CWA2-FF-BF

1 2 3 4 5 6

1. Linear power output W/m at +10°C
2. Model Type
3. Supply Voltage: 1 - 110-120 V, 2 - 220-240V
4. Bus Bar + Inner Jacket: S - Silicon, F - Fluoropolymer
5. Tinned Copper Braid
6. Outer Jacket: S - Silicon, F - Fluoropolymer

## MAXIMUM PIPE/WORK PIECE TEMPERATURES

| TRACER NOMINAL OUTPUT | MAXIMUM PERMISSIBLE PIPE TEMP (°C) | | | | |
|---|---|---|---|---|---|
| W/m | CWA | CWA-SS-B | CWA-FF-B | CWA-SS-BS | CWA-FF-BF |
| 6.6 W/m | 190 | 190 | 190 | 190 | 190 |
| 13 W/m | 180 | 180 | 180 | 185 | 185 |
| 23 W/m | 150 | 150 | 150 | 160 | 160 |
| 33 W/m | 110 | 110 | 110 | 115 | 115 |
| 50 W/m | 70 | 75 | 75 | 80 | 75 |

## APPLICATIONS

- Pipelines
- Tanks
- Vessels
- Skids
- Equipments
- Small Bore & Compact Structures

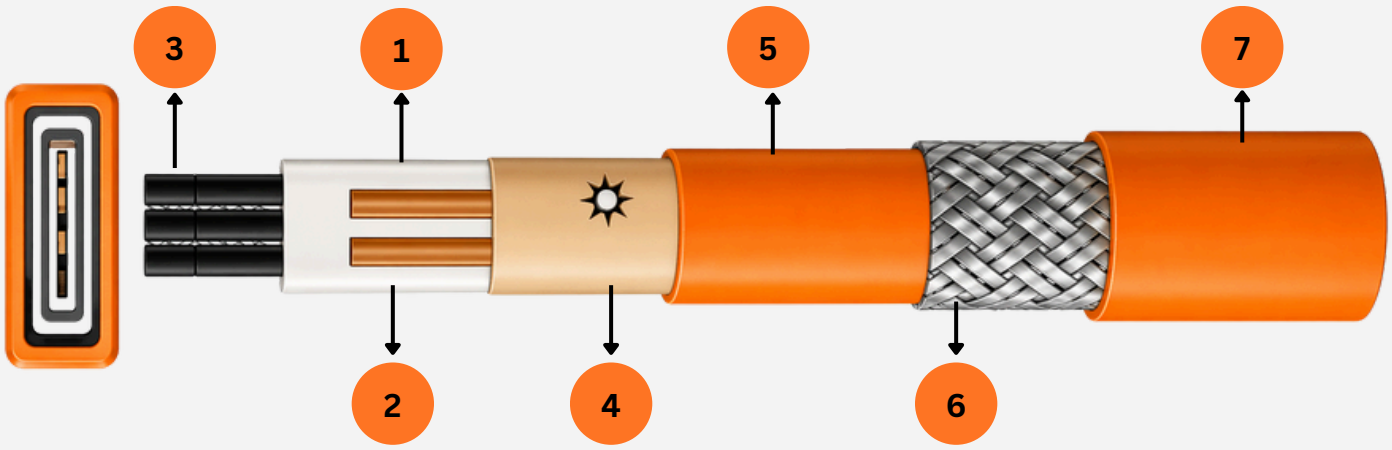
# POWER LIMITING HEAT TRACING CABLE- PLA

SC Electric PLA Power Limiting Heating Cables deliver precise and uniform heat output across their entire length, ensuring reliable temperature maintenance even in the most demanding environments.

Engineered with advanced parallel-resistance technology, these cables provide consistent heat output independent of ambient temperature variations. The result: no overheating, no cold spots—just safe, dependable, and efficient heating performance every time.

## KEY FEATURES

- Withstand Temp upto 260°C
- Available in outputs upto 50W/m
- Cut to Length
- Highly Flexible
- Robust Construction
- Efficient Heat Transfer
- Available for 110/120 and 220/240 VAC
- No hot spots or cold zones




| | MODEL: PLA-SS-BS | MODEL:PLA-FF-BF |
|---|---|---|
| 1 | 2 × 1.5 mm² multistrand tinned copper Bus Bar Flat | 2 × 1.5 mm² multistrand tinned copper Bus Bar Flat |
| 2 | Silicon Busbar Insulation | Silicon / Fluoropolymer Insulation (Optional) |
| 3 | Heating Element- CuNi/NiCr Woven Into FG | Heating Element- CuNi/NiCr Woven Into FG |
| 4 | Bus Bar to Heating Element Connection | Bus Bar to Heating Element Connection |
| 5 | Silicon Inner Insulation | Fluoropolymer Inner Insulation |
| 6 | Metallic Braid - Tinned Copper | Metallic Braid - Tinned Copper |
| 7 | Silicon Outer Insulation | Fluoropolymer Outer Insulation |

# TECHNICAL DATA

| | |
|---|---|
| Rated Voltage | 220-240 VAC<br>or 110-120 VAC |
| Available Outputs | 6.6, 13, 23, 33, 50 W/m |
| Maximum Continuous Operating Temperature (energised) | 150°C |
| Maximum Continuous Operating Temperature (Un-energised) | 260°C |
| Ambient Temperature Range | Silicon: -20 to +55°C<br>Fluoropolymer: -40 to +55°C |

# MAXIMUM CIRCUIT LENGTHS

For Use with Type C Circuit Breaker according to IEC 60898-1:2015

| OUTPUT W/m | 110V | 230V |
|---|---|---|
| 6.6 W/m | 80 | 160 |
| 13 W/m | 57 | 114 |
| 23 W/m | 44 | 88 |
| 33 W/m | 35 | 70 |
| 50 W/m | 28 | 59 |

## WEIGHT & DIMENSIONS

| Type | Nom. Dims (mm) | Weight kg/100m | Min Bending Radius (mm) | Gland Size |
|---|---|---|---|---|
| PLA | 8.2 X6.0 | 7.5 | 10 | M16 |
| PLA-SS-B | 9.0 X 6.8 | 11.8 | 12 | M16 |
| PLA-FF-B | 8.8 X 6.6 | 11.8 | 16 | M16 |
| PLA-SS-BS | 11.0 X 8.8 | 14.4 | 15 | M20 |
| PLA-FF-BF | 10.2 X 8.0 | 14.4 | 25 | M20 |

## MARKINGS

EXAMPLE - 33PLA2-FF-BF

1 2 3 4 5 6

1. Linear power output W/m at +10°C
2. Model Type
3. Supply Voltage: 1 - 110-120 V, 2 - 220-240V
4. Bus Bar + Inner Jacket: S - Silicon, F - Fluoropolymer
5. Tinned Copper Braid
6. Outer Jacket: S - Silicon, F - Fluoropolymer

## MAXIMUM PIPE/WORK PIECE TEMPERATURES

| TRACER NOMINAL OUTPUT | MAXIMUM PERMISSIBLE PIPE TEMP (°C) | | | | |
|---|---|---|---|---|---|
| W/m | PLA | PLA-SS-B | PLA-FF-B | PLA-SS-BS | PLA-FF-BF |
| 6.6 W/m | 190 | 190 | 190 | 190 | 190 |
| 13 W/m | 180 | 180 | 180 | 185 | 185 |
| 23 W/m | 150 | 150 | 150 | 160 | 160 |
| 33 W/m | 110 | 110 | 110 | 115 | 115 |
| 50 W/m | 70 | 75 | 75 | 80 | 75 |

## APPLICATIONS

- Pipelines
- Tanks
- Vessels
- Skids
- Equipments
- Small Bore & Compact Structures

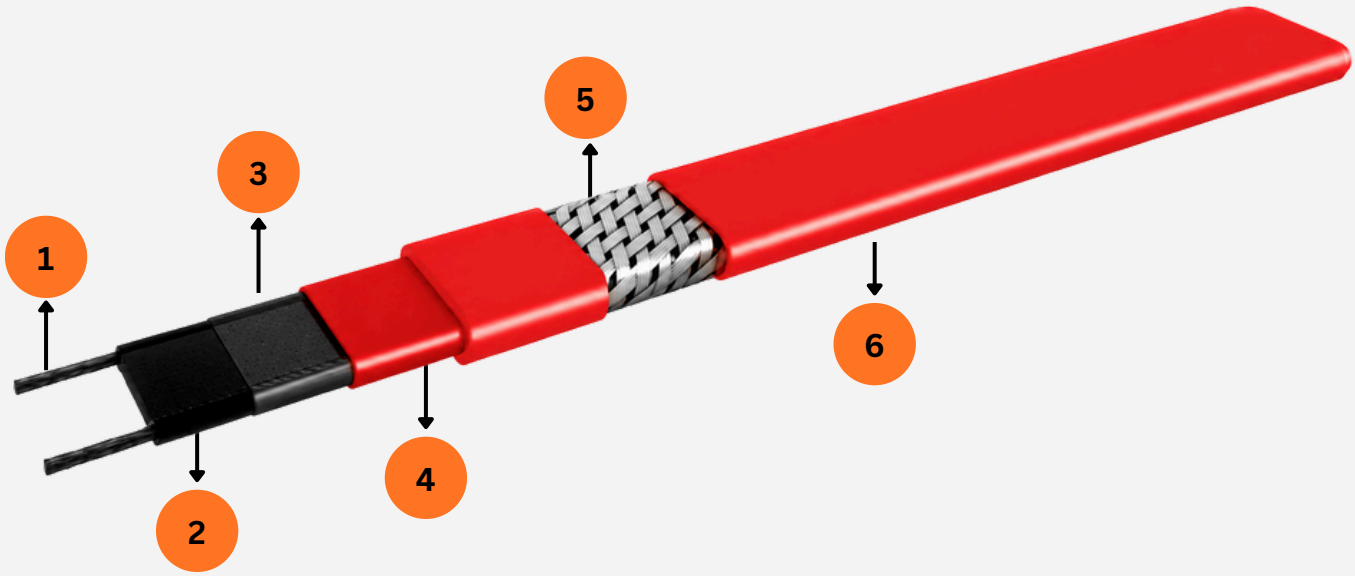
# SELF REGULATING HEAT TRACING CABLE- SRCL

SRCL self-regulating heating cables provide exceptional versatility in heat tracing system design and applications. Constructed with a semi-conductive heating matrix extruded between parallel bus wires, the cable automatically adjusts its heat output in response to the ambient temperature along its entire length.

As the temperature increases, the resistance of the heating matrix increases, reducing the output wattage. Conversely, when the temperature decreases, the resistance lowers and the cable generates more heat. Due to this self-regulating characteristic, thermostats may not be necessary for certain applications.

The cable will not overheat or burn out, even when overlapped, ensuring safe and reliable operation. It can also be cut to any required length without affecting performance, offering flexibility during installation. As a result, SRCL heating cables provide an energy-efficient and cost-effective heat tracing solution.

With optional outer jackets, these heating cables offer excellent resistance to water and inorganic chemicals, while also providing protection against abrasion and impact damage.

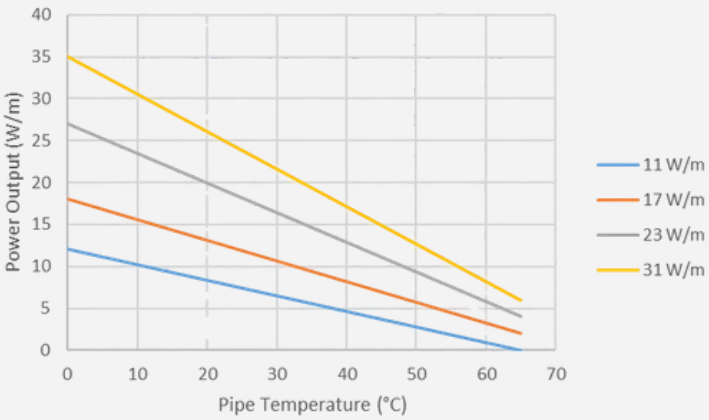



| | | | |
|---|---|---|---|
| 1 | Tinned Copper Buswires | 4 | Polyolefin or Fluoropolymer Second Insulation |
| 2 | PTC Matrix | 5 | Metal Braiding |
| 3 | Polyolefin First Insulation | 6 | Thermoplastic/Polyolefin/Fluoropolymer Outer Jacket |

# TECHNICAL DATA

| | |
|---|---|
| Rated Voltage | 220-240 VAC<br>or 110-120 VAC |
| Available Outputs | 11, 17, 23, 31 W/m |
| Maximum Maintainence Temperature | 65°C |
| Maximum Continuous Operating Temperature<br>Energised<br>De-Energised | <br>+65°C<br>+85°C |
| Maximum Exposure Temperature | +85°C |
| Ambient Temperature Range | Thermoplastic : -20 to +55°C<br>Fluoropolymer: -40 to +55°C |

# POWER OUTPUT




# MARKINGS

## EXAMPLE - 17SRCL2-PF-BF

1 2 3 4 5 6

| | |
|---|---|
| Maximum Resistance of Braid | ≤18.2Ω/km |
| Buswire Gauge | 18 AWG |

1. Linear power output W/m at +10°C
2. Model Type
3. Supply Voltage: 1 - 110-120 V, 2 - 220-240V
4. 2nd Jacket: P - Polyolefin, F - Fluoropolymer
5. Tinned Copper Braid
6. Outer Jacket: P - Polyolefin, T - Thermoplastic
   F - Fluoropolymer

## MAXIMUM PIPE/WORK PIECE TEMPERATURES

| SRCL SERIES | OUTPUT @ +10°C (W/m) | Max Maintenance Temp (°C) | Max Length @+10°C-16/30A (m) | Max Length @ 0°C-16/30A (m) | Max Length @-20°C-16/30A (m) | Dimensions (mm) | Weight (Kg/100m) |
|---|---|---|---|---|---|---|---|
| 11SRCL-BT | 11 | 65 | 120/145 | 112/140 | 108/120 | 10.4x5.3 | 8.4 |
| 11SRCL-BF | 11 | 65 | 120/145 | 112/140 | 108/120 | 10.1x5.0 | 8.0 |
| 17SRCL-BT | 17 | 65 | 115/120 | 106/120 | 95/115 | 10.4x5.3 | 8.4 |
| 17SRCL-BF | 17 | 65 | 115/120 | 106/120 | 95/115 | 10.1x5.0 | 8.0 |
| 23SRCL-BT | 23 | 65 | 75/100 | 72/91 | 65/84 | 10.4x5.3 | 8.4 |
| 23SRCL-BF | 23 | 65 | 75/100 | 72/91 | 65/84 | 10.1x5.0 | 8.0 |
| 31SRCL-BT | 31 | 65 | 51/65 | 45/61 | 40/55 | 10.4x5.3 | 8.4 |
| 31SRCL-BF | 31 | 65 | 51/65 | 45/61 | 40/55 | 10.1x5.0 | 8.0 |

# APPLICATIONS

- Pipelines
- Tanks
- Drains
- Roofs
- Flooring
- Pathways

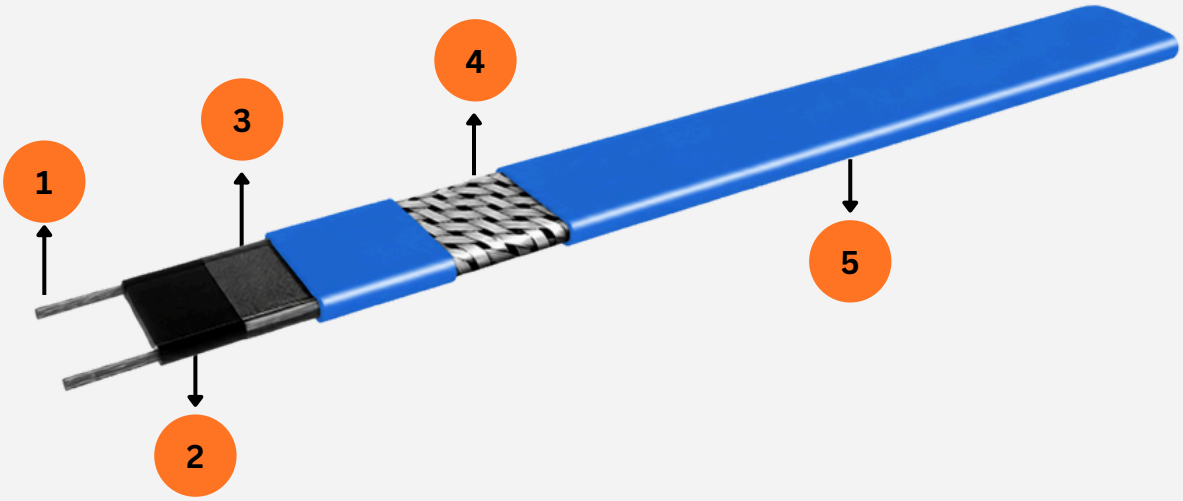
# SELF REGULATING HEAT TRACING CABLE- SRCM

SRCM Self-Regulating Heating Cable is a medium-temperature heat tracing cable designed to offer high versatility across various heat tracing applications.

It is constructed with a semi-conductive heating matrix extruded between parallel bus wires. The cable automatically adjusts its heat output in response to temperature changes along its entire length. As the temperature increases, the resistance of the heating matrix increases, reducing the wattage output. Conversely, as the temperature decreases, the resistance decreases, allowing the cable to generate more heat.

In certain applications, a thermostat may not be required. The cable is designed to prevent overheating or burnout, even when overlapped. It can also be cut to length at site, making installation simple and flexible.

As a result, SRCM provides an efficient, reliable, and energy-saving heat tracing solution.

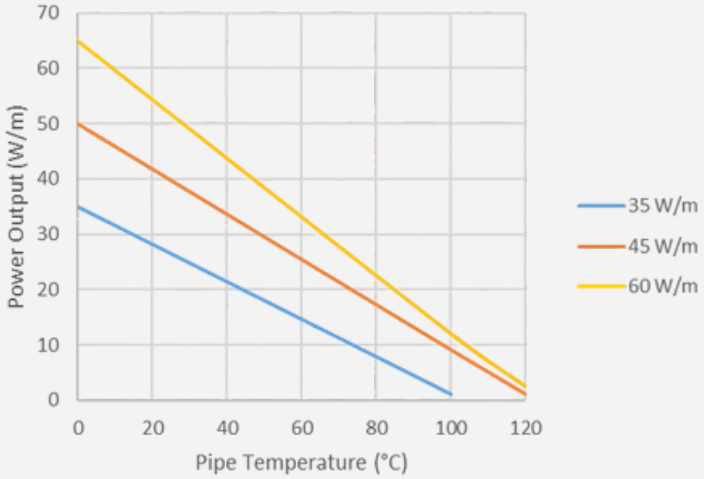



| | |
|---|---|
| 1 | Tinned Copper Buswires |
| 2 | PTC Matrix |
| 3 | Polyolefin / Fluoropolymer First Insulation |
| 4 | Metal Braiding |
| 5 | Polyolefin / Fluoropolymer/ Thermoplastic Outer Jacket |

# TECHNICAL DATA

| | |
|---|---|
| Rated Voltage | 220-240 VAC<br>or 110-120 VAC |
| Available Outputs | 35, 45, 60 W/m |
| Maximum Maintainence Temperature | 110°C |
| Maximum Continuous Operating Temperature<br>Energised<br>De-Energised | <br>+135°C<br>+200°C |
| Maximum Exposure Temperature | +200°C |
| Ambient Temperature Range | Thermoplastic : -20 to +55°C<br>Fluoropolymer: -40 to +55°C |

# POWER OUTPUT




# MARKINGS

## EXAMPLE - 45SRCM2-PB-F

1 2 3 4 5 6

| | |
|---|---|
| Maximum Resistance of Braid | ≤18.2Ω/km |
| Buswire Gauge | 16 AWG |

1. Linear power output W/m at +10°C
2. Model Type
3. Supply Voltage: 1 - 110-120 V, 2 - 220-240V
4. Inner Insulation: P - Polyolefin, F - Fluoropolymer
5. Tinned Copper Braid
6. Outer Jacket: P - Polyolefin, T - Thermoplastic<br>F - Fluoropolymer

## MAXIMUM PIPE/WORK PIECE TEMPERATURES

| SRCL SERIES | OUTPUT @ +10°C (W/m) | Max Maintenance Temp (°C) | Max Length @+10°C-16/30A (m) | Max Length @ 0°C-16/30A (m) | Max Length @-20°C-16/30A (m) | Dimensions (mm) | Weight (Kg/100m) |
|---|---|---|---|---|---|---|---|
| 35SRCM - PB/FB-P/T/F | 35 | 110 | 75/100 | 65/90 | 45/60 | 13.3x6.1 | 12.5 |
| 45SRCM - PB/FB-P/T/F | 45 | 110 | 60/85 | 50/75 | 35/50 | 13.3x6.1 | 12.5 |
| 60SRCM - PB/FB-P/T/F | 60 | 110 | 50/70 | 40/60 | 30/45 | 13.3x6.1 | 12.5 |

# APPLICATIONS

- Pipelines
- Tanks
- Vessels
- Skids
- Equipments
- Small Bore & Compact Structures

# SELF REGULATING HEAT TRACING CABLE- SRCH

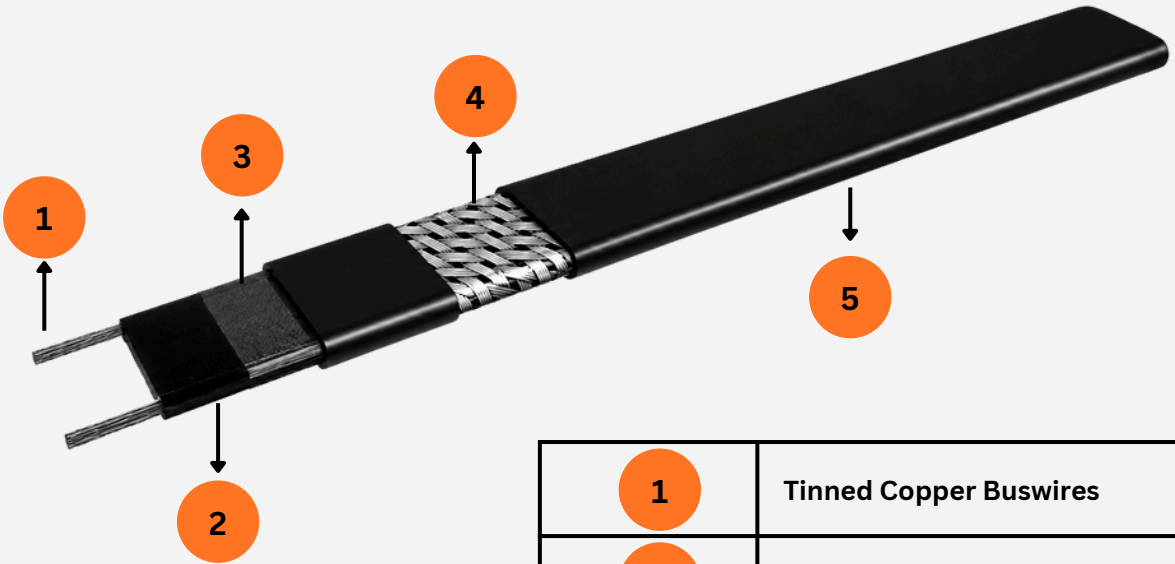
SRCH Self-Regulating Heating Cable is a high-temperature heat tracing cable designed to provide versatile and reliable performance across demanding heat trace applications.

It is constructed with a semi-conductive heating matrix extruded between parallel bus wires. The cable automatically adjusts its heat output in response to temperature variations along its entire length. As the temperature increases, the resistance of the heating matrix increases, reducing the wattage output. Conversely, as the temperature decreases, the resistance decreases, allowing the cable to generate more heat.

In certain applications, a thermostat may not be required. The cable is designed to prevent overheating or burnout, even when overlapped. It can also be cut to length at site, offering flexibility and ease of installation.

With fluoropolymer material used for both inner insulation and outer jacket, the cable offers excellent resistance to moisture, inorganic chemicals, abrasion, and impact damage.

As a result, SRCH provides an efficient, durable, and energy-saving heat tracing solution for high-temperature applications.

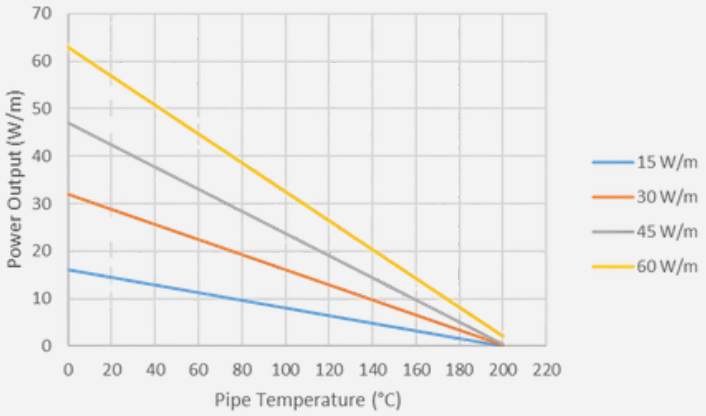



| | |
|---|---|
| 1 | Tinned Copper Buswires |
| 2 | PTC Matrix |
| 3 | Fluoropolymer First Insulation |
| 4 | Metal Braiding |
| 5 | Fluoropolymer Outer Jacket |

# TECHNICAL DATA

| | |
|---|---|
| Rated Voltage | 220-240 VAC |
| Available Outputs | 15, 30, 45, 60 W/m |
| Maximum Maintainence Temperature | 150°C |
| Maximum Continuous Operating Temperature<br>Energised<br>De-Energised | <br>+200°C<br>+250°C |
| Maximum Exposure Temperature | +250°C |
| Ambient Temperature Range | Thermoplastic : -20 to +55°C<br>Fluoropolymer: -40 to +55°C |

# POWER OUTPUT




# MARKINGS

EXAMPLE - 45SRCH2-FB-F

1 2 3 4 5 6

| | |
|---|---|
| Maximum Resistance of Braid | ≤18.2Ω/km |
| Buswire Gauge | 1.21mm² & 1.37mm² |

1. Linear power output W/m at +10°C
2. Model Type
3. Supply Voltage: 1 - 110-120 V, 2 - 220-240V
4. Inner Insulation: F - Fluoropolymer
5. Metal Braiding
6. Outer Jacket: F - Fluoropolymer

## MAXIMUM PIPE/WORK PIECE TEMPERATURES

| SRCL SERIES | OUTPUT @ +10°C (W/m) | Max Maintenance Temp (°C) | Max Length @+10°C-16/32A (m) | Max Length @ 0°C-16/32A (m) | Max Length @-20°C-16/32A (m) | Dimensions (mm) | Weight (Kg/100m) |
|---|---|---|---|---|---|---|---|
| 15-SRCH-2-FB-F | 15 | 150 | 165/200 | 117/189 | 102/161 | 10.8x5.0 | 12.5 |
| 30-SRCH-2-FB-F | 30 | 150 | 85/130 | 69/114 | 62/103 | 10.8x5.0 | 12.5 |
| 45-SRCH-2-FB-F | 45 | 150 | 70/90 | 49/82 | 44/73 | 10.8x5.0 | 12.5 |
| 60-SRCH-2-FB-F | 60 | 150 | 50/70 | 38/64 | 35/59 | 10.8x5.0 | 12.5 |

# APPLICATIONS

- Pipelines
- Tanks
- Vessels
- Skids
- Equipments
- Small Bore & Compact Structures

# SRCL FREEZE PROTECTION KIT

**SRCL ready-to-use cable kits are designed to effectively prevent frost-related damage, leakage, and inconvenience caused by frozen water systems. These heating solutions also help prevent the formation of ice and snow dams on roofs and in gutters.**
**The SRCL heating cable comes with a pre-assembled power plug, allowing quick and easy connection to an AC power supply for hassle-free installation.**

## TECHNICAL DATA

| | |
|---|---|
| Rated Voltage | 220-240 VAC<br>or 110-120 VAC |
| Available Outputs | 17, 23 W/m |
| Maximum Maintainence Temperature | 65°C |
| Maximum Exposure Temperature | +85°C |
| Ambient Temperature Range | Thermoplastic: -20 to +55°C<br>Fluoropolymer: -40 to +55°C |
| Max Connection Length at 16A | 80 Meters |
| Cold Lead Length | 2.5 / 4 Meters |
| Outer Jacket | Fluoropolymer/Thermoplastic |



## READY KIT SIZES & OUTPUT

| Item | Length/ Meter | Power Output/ Meter |
|---|---|---|
| 17SRCL-2 | 2 | 34 |
| 17SRCL-4 | 4 | 68 |
| 17SRCL-6 | 6 | 102 |
| 17SRCL-8 | 8 | 136 |
| 17SRCL-10 | 10 | 170 |
| 17SRCL-15 | 15 | 255 |
| 17SRCL-20 | 20 | 340 |
| 17SRCL-25 | 25 | 425 |
| 17SRCL-30 | 30 | 510 |
| 17SRCL-35 | 35 | 595 |
| 17SRCL-40 | 40 | 680 |
| 17SRCL-45 | 45 | 765 |
| 17SRCL-50 | 50 | 850 |
| 17SRCL-80 | 80 | 1360 |

| Item | Length/ Meter | Power Output/ Meter |
|---|---|---|
| 23SRCL-2 | 2 | 46 |
| 23SRCL-4 | 4 | 92 |
| 23SRCL-6 | 6 | 138 |
| 23SRCL-8 | 8 | 184 |
| 23SRCL-10 | 10 | 230 |
| 23SRCL-15 | 15 | 345 |
| 23SRCL-20 | 20 | 460 |
| 23SRCL-25 | 25 | 575 |
| 23SRCL-30 | 30 | 690 |
| 23SRCL-35 | 35 | 805 |
| 23SRCL-40 | 40 | 920 |
| 23SRCL-45 | 45 | 1035 |
| 23SRCL-50 | 50 | 1150 |
| 23SRCL-80 | 80 | 1840 |

# ACCESORIES

**At SC Electric, we have developed close tie-ups with reliable manufacturers for producing high-quality accessories required to complete Electrical Heat Tracing systems.**
**These accessories are designed to support safe installation, long-term performance, and dependable operation of heat tracing projects across industrial applications. From power connection kits and end termination kits to junction boxes, fixing tapes, glands, warning labels, and other installation components, we ensure that every accessory meets the required quality standards for efficient and reliable system performance.**

## END SEAL




**PROVIDES MOISTURE PROTECTION AND ELECTRICAL INSULATION AT THE END OF HEAT TRACING CABLE**

## TERMINATION KIT



# JUNCTION BOX

**At SC Electric, we source high-quality junction boxes and accessories required for safe and reliable Electrical Heat Tracing installations.**

**Our range includes:**

1. **Power Connector**
2. **Power Splice Connector**
3. **Tee Connector**
4. **End Connector**



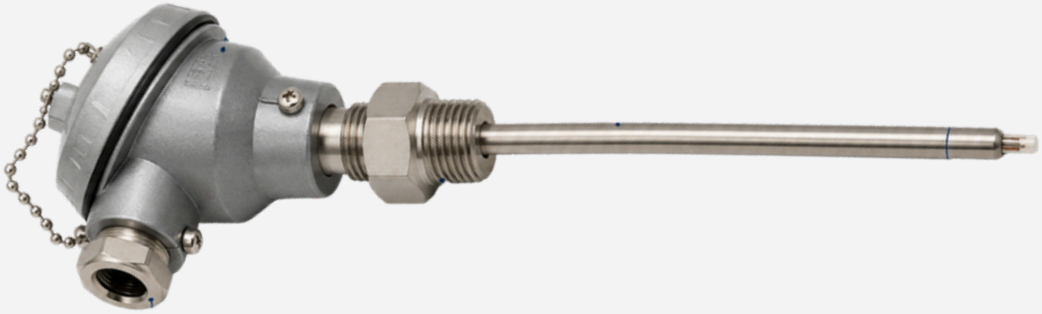

- FLAME PROOF ENCLOSURE
- SECURE & RELIABLE CONNECTION
- SUITABLE FOR HAZARDEOUS AREAS
- IP66 PROTECTION
- EASY INSTALLATION & MAINTENANCE

# TEMPERATURE CONTROLLER




- MULTIPOINT TEMP SCANNER
- MICRO CONTROLLER BASED
- AUTOMATIC LEAD RESISTANCE COMPENSATION
- GROUPING OF CHANNELS & RELAYS
- SHEET METAL ENCLOSURE

# RTD



- Key Features:
- High accuracy and stable temperature sensing
- Wide temperature measurement range
- Fast response time
- Excellent long-term reliability
- Suitable for industrial and hazardous area applications
- Stainless steel protection sheath
- Weatherproof connection head
- Easy installation and maintenance

# TURNKEY EHT SOLUTIONS

- **COMPLETE EHT SOLUTIONS – FROM CONCEPT, DESIGN TO COMMISSIONING**
- **IN-HOUSE ENGINEERING & SYSTEM DESIGN EXPERTISE**
- **HEAT TRACING CABLES FOR PROCESS & FREEZE PROTECTION**
- **TURNKEY EXECUTION INCLUDING SUPPLY, INSTALLATION & TESTING**
- **RELIABLE PERFORMANCE FOR INDUSTRIAL AND HAZARDOUS AREAS**
- **ENSURING QUALITY, SAFETY & ON-TIME DELIVERY**



# SC ELECTRIC


www.scelectric.in

info@scelectric.in

+91-11-44796683

B-2, No. 12 Block B, Mohan
Cooperative Industrial Estate,
Badarpur, New Delhi- 110044