



SELF LIMITING CABLE - STF

Trace Heating

Frost protection & process temperature maintenance

The self-limiting heating cable is used for frost protection or process temperature maintenance to metallic and nonmetallic piping, tanks & equipment.

STF cables are approved for use in and hazardous areas.

STF derives its Thermotrace self-regulating Tracer characteristic from the inherent properties of the semi conductive core material. With increase and decrease in cable core material temperature, conductive paths decrease and increase and result in heat output decreasing or increasing. This occurs at every point along the cable's length, adjusting the power output to the varying conditions. As the cable self-regulates its heat output, it limits the maximum sheath temperature, thus making it burn-out proof

STF is available factory terminated and as in continuous lengths on drums.



- Temperature maintenance
- Frost Protection
- Tanks
- Valves & Pumps



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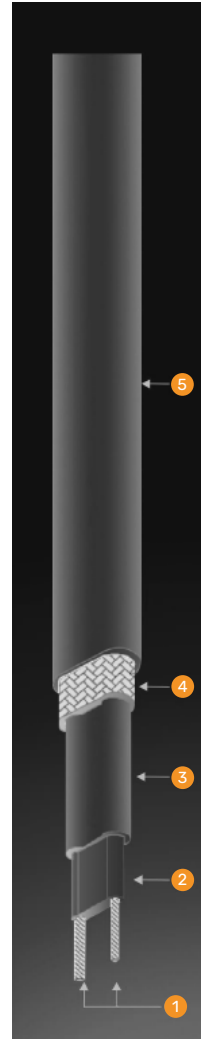


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CONSTRUCTION

| | |
|---|---|
| 1 | Bus Bar: Coated Copper, Nom. 1.25 sq.mm |
| 2 | Heating Core: Semi conductive matrix |
| 3 | Insulation: Modified Polyolefin |
| 4 | Metal Sheathing: Coated Copper Braiding / Aluminum Mylar and earth drain wire |
| 5 | Outer Sheath: Modified polyolefin/Fluoropolymer |



TECHNICAL DATA

| | |
|---------------------------------------|--|
| Standard Power output at 10°C on Pipe | 10, 15, 20, 25 & 33 W/m |
| Voltage Supply: | 230V a.c |
| Min. Installation Temperature | -65°C |
| Operating Temperature - Switched on | Max 65°C |
| Operating Temperature - Switched off | Max 85°C |
| Minimum Bending Radius | 25mm |
| Qualification | IS/ EN/ IEC 60079-30-1 and ATEX UV Protection, REACH & ROHS |



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Range:

T = Terminated

AZ = Aluminum Mylar with drain wire + Modified polyolefin

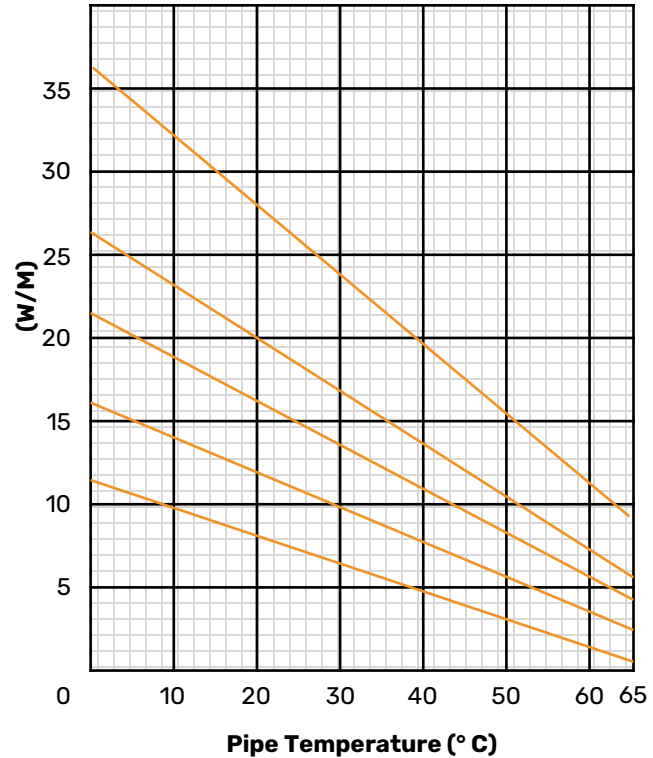
BZ = Braiding + Modified Polyolefin

BF = Braiding + Fluoropolymer

Rated Output: 10 W/m, 15 W/m, 20 W/m 25 W/m & 33 W/m.

| Type | Nominal Output | Nominal Dimensions |
|-----------|----------------|--------------------|
| STF-10-AZ | 10 W/m @ 10°C | 6.50 x 12.50 mm |
| STF-10-BZ | 10 W/m @ 10°C | 6.75 x 12.00 mm |
| STF-10-BF | 10 W/m @ 10°C | 5.50 x 10.80 mm |
| STF-15-AZ | 15 W/m @ 10°C | 6.50 x 12.50 mm |
| STF-15-BZ | 15 W/m @ 10°C | 6.75 x 12.00 mm |
| STF-15-BF | 15 W/m @ 10°C | 5.50 x 10.80 mm |
| STF-20-AZ | 20 W/m @ 10°C | 6.50 x 12.50 mm |
| STF-20-BZ | 20 W/m @ 10°C | 6.75 x 12.00 mm |
| STF-20-BF | 20 W/m @ 10°C | 5.50 x 10.80 mm |
| STF-25-AZ | 25 W/m @ 10°C | 6.50 x 12.50 mm |
| STF-25-BZ | 25 W/m @ 10°C | 6.75 x 12.50 mm |
| STF-25-BF | 25 W/m @ 10°C | 5.50 x 10.80 mm |
| STF-33-AZ | 33 W/m @ 10°C | 6.50 x 12.50 mm |
| STF-33-BZ | 33 W/m @ 10°C | 6.75 x 12.00 mm |
| STF-33-BF | 33 W/m @ 10°C | 5.50 x 10.80 mm |

Power Output Characteristics



*The STF IS available in factory terminated standard lengths: 5, 8, 10, 12, 15, 20, 25, 30, 35, 40, 50, 60 & 70 m,



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Maximum Circuit Lengths @ 230 V a.c

Heating Circuit Length (m) with type C circuit breaker

| | | STF-10 | | | STF-15 | | | STF-20 | | | STF-25 | | | STF-33 | | |
|---------------------------|-----------------------------|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|----|----|
| | Circuit Breaker Size (Amps) | 16 | 20 | 32 | 16 | 20 | 32 | 16 | 20 | 32 | 16 | 20 | 32 | 16 | 20 | 32 |
| | + 10°C | 150 | 150 | 150 | 130 | 130 | 130 | 116 | 116 | 116 | 90 | 105 | 105 | 77 | 92 | 92 |
| Switch-on Temperatur (°C) | - 20°C | 130 | 130 | 130 | 110 | 110 | 110 | 90 | 102 | 102 | 75 | 92 | 92 | 57 | 72 | 81 |

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