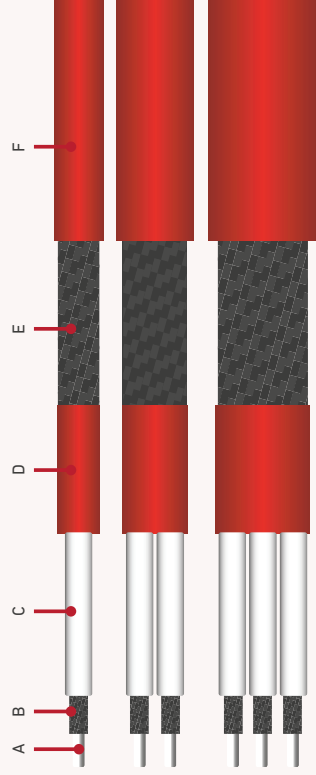


## HEAT TRACING SOLUTIONS

### Cable Construction



**A.** Conductor Core **B,C,D.** FEP Insulation Layer and Outer Sheath  
**E.** Metal Braid **F.** FEP Outer Jacket

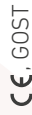
### Introduction

Our series heating cable are made of a run of high-resistance wire, insulated with FEP with FEP protective jacket and reinforced braid together with a final outer protective jacket of FEP. It is powered at a specific voltage and the resistance heat of the wire creates the required output. Long line circuits to 20km+ can be achieved with configurations of the product line.

### Technical Data

Rated Voltage: 110V-120V, 220V-380V, 660V, 1100V  
 Insulation Resistance: ≤750M km  
 Dielectric Strength: 2 x Nominal Voltage + 2500V  
 Max withstand temperature: 250°C  
 Min installation temperature: -50°C

Approvals:



**Notes:** Longline heating is required to ensure that liquids are transported effectively and safely over long distances. In the absence of longline heating, the following problems could result in significant environmental and property losses.

1. Liquids becoming too viscous
2. Gases condensing
3. Liquids freezing resulting in catastrophic pipe failures

Longline heating applications have several challenges, such as:

1. Large pipe diameters
2. Elevation changes along the length
3. Remote locations
4. Lack of power availability along the length

For pre-insulated pipes, additional challenges include:

1. Alignment of channels
2. Lack of insulation at the pipe joints
3. Pulling long length of cable through the channels
4. Lack of accessibility of connection kits

**SWA can solve all of these problems...**

Reference	Core Conductor's Structure	Cross Section mm <sup>2</sup>	Resistance MΩ/km 20°C
SWA(*)-3.0	19x0.45	3	5.83
SWA(*)-4.0	19x0.52	4	4.87
SWA(*)-5.0	19x0.58	5	3.52
SWA(*)-6.0	19x0.64	6	2.93
SWA(*)-7.0	19x0.69	7	2.51

**Notes:** \* Denotes number of conductors.