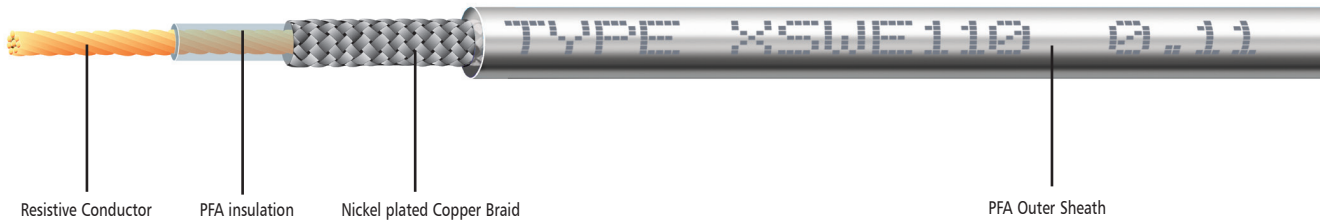


## XSWE and XSWH

### Single wire, Fixed resistance, PFA insulated Heating Cable



#### Electrical trace-heating for frost protection and temperature maintenance.

Cross XSWE and XSWH heating cable combine the simplicity of a single wire with the high performance of PFA insulation.

XSWE and XSWH heating cables are fixed resistance, constant wattage heating cables for metal, plastic pipe and vessels.

XSWE and XSWH heating cables can be designed for non-standard heating applications using any voltage from 6 to 415 volts.

Having high flexibility for ease of installation and a fixed resistance core enabling the circuit resistance to be tested periodically regardless of ambient or process temperatures.

XSWE and XSWH cables can be used for temperature applications up to 230°C. For safe area applications only.

#### Applications

##### TEMPERATURE MAINTENANCE

- Process pipework and vessels up to 120°C

#### Specifications

Maximum Operating Temperature	230°C (energised)
Maximum Exposure Temperature	260°C (de-energised)
Minimum Installation Temperature	-50°C
Minimum Bending Radius	27mm
Supply Voltage	6 Volt - 415 Volt
Cable Diameter	4.75mm nominal

#### Applications

Temperature maintenance of process pipework

Pumps, Valves, Tanks and Vessels

Road and Ramp heating, Roof and Gutter protection, Emergency Fire Exits, Footpaths and Disabled Ramps.



**CROSS ELECTRICAL (NOTTINGHAM) LTD**  
 Trace Works, Debdale Lane, Keyworth, Nottingham, NG12 5HN  
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 E-mail: [heat@cross-electrical.co.uk](mailto:heat@cross-electrical.co.uk) Website: [www.cross-electrical.co.uk](http://www.cross-electrical.co.uk)



# XSWE and XSWH

Design Parameters	XSWE	XSWH
Process Temperature	Max Output (Watts per metre)	
230°C	6	-
220°C	8	-
200°C	12	5
180°C	17	10
160°C	27	15
140°C	33	20
120°C	40	25

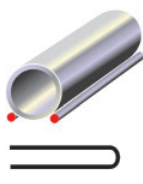
## Properties of Insulation and Sheath Material

Chemical Identification	Perfluoroalkoxy polymeric
Symbol	PFA
Decomposition Temp.	305°C
Chemical Resistance	Excellent resistance to corrosive chemicals
General properties	High UV and Radiation resistance (105 rad)
Oxygen index	95
Flame Retardance	self-extinguishing. Complies with flame retardency requirements of IEC 332 part 1.

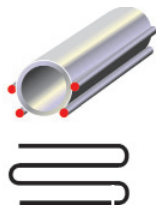
## Operational Features

- Suitable for heating circuits up to 1000 metres in length.
- Any voltage up to 440 volts possible.
- Compatible with numerous temperature applications up to 230°C.
- Excellent resistance to corrosive chemicals.
- Flexible and easy to install.
- Simple user friendly terminations.
- Can replace or supplement steam heating installations.
- Robust and reliable with unchanging characteristics.
- XSWE cables have a fixed resistance, therefore the power output can be checked at any time, regardless of ambient or process temperature.

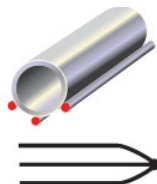
2 runs



4 runs



3 runs (3 phase)



TYPE XSWH 100 0.1  
0.1 Ohms/metre **XSWH 100**

TYPE XSWH 150 0.15  
0.15 Ohms/metre **XSWH 150**

TYPE XSWH 200 0.2  
0.2 Ohms/metre **XSWH 200**

TYPE XSWH 360 0.36  
0.36 Ohms/metre **XSWH 360**

TYPE XSWH 480 0.48  
0.48 Ohms/metre **XSWH 480**

TYPE XSWH 650 0.65  
0.65 Ohms/metre **XSWH 650**

TYPE XSWH 800 0.8  
0.8 Ohms/metre **XSWH 800**

TYPE XSWH 1000 1.0  
1.0 Ohms/metre **XSWH 1000**

TYPE XSWE110 0.11  
0.11 Ohms/metre **XSWE 110**

TYPE XSWE150 0.15  
0.15 Ohms/metre **XSWE 150**

TYPE XSWE220 0.22  
0.22 Ohms/metre **XSWE 220**

TYPE XSWE360 0.36  
0.36 Ohms/metre **XSWE 360**

TYPE XSWE630 0.63  
0.63 Ohms/metre **XSWE 630**

TYPE XSWE800 0.8  
0.8 Ohms/metre **XSWE 800**

TYPE XSWE1000 1.0  
1.0 Ohms/metre **XSWE 1000**



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