



Capability Document 2024





● An Introduction to Solco Pyroelec in the UK

Solco Pyroelec UK Ltd. was established in the UK in 2014 with the brief to expand the use of the Solco Pyroelec manufacturing brand in Europe, Middle East & Africa (EMEA) Region.

Since 2014, the company developed a Quality Management System which complies with the requirements of ISO 9001:2015 for ***"The supply and distribution of industrial, commercial and residential heat tracing products, heating jackets, temperature control and monitoring devices and leak detection systems"*** under BSI certificate no: FS 639745.

Our expertise includes thermal, electrical and control systems design related to electrical heat tracing systems for many different market sectors and individual applications including the Building Services/Commercial and Industrial/ATEX market sectors.



Solco Pyroelec UK Products and Services

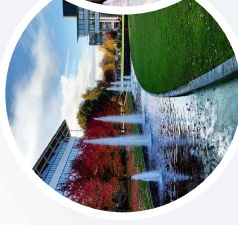
Solco Pyroelec UK has extensive skills and experience to provide a wide range of technical solutions for electrical trace heating applications from basic frost protection of water pipework in safe areas to maintaining process temperatures for viscosity control up to +200°C in hazardous/ATEX certified environments. A key summary of our capabilities from our UK office is...

-  **Bulk product stock** holding in our Bolton HQ and warehouse, typically despatched on a next working day basis.
-  **Highly experienced** engineering staff with literally decades of involvement with the electrical trace heating industry.
-  **Knowledgeable** across a wide range of applications and market sectors including ATEX certified hazardous areas.
-  **UK-developed specialist** electronic controllers to address specific requirements of different market sectors.
-  **Experts in providing** application help and advice in potentially explosive atmospheres to BS EN60079.
-  **Full design, supply** and installation service available via Solco Pyroelec accredited installer partners.
-  **Solco Pyroelec** accredited installer partners undertake a comprehensive theory and practical training programme.
-  **Extended 10 year** product warranty on FBL, FBH, FBX and FBZ including all PYEX-EP series components.

Building Services/Commercial market sector, including:

Care & nursing homes, corporate office HQs, data centres, holiday parks, hospitals, hotels, leisure facilities, public buildings, railway stations, research labs, retail centres, schools, sports stadia, student accommodation, supermarkets, universities, warehouses as well as low voltage (12V & 24V DC) applications in the automotive market.

Typical Applications: Frost protection of cold water pipework including automated fire water sprinkler systems, temperature maintenance on hot water pipework systems and a variety of anti-icing duties of concrete ramps, emergency stairs, main access steps, roof gutters and downpipes as well as snow melting on roofs. We also can enhance battery output during low ambient temperatures with 12V & 24V DC heating tape solutions.



● Summary of Solco Pyroelec
Trace Heating Tapes

Building Services/Commercial

1 HSRxxx-CP	= 65/85°C	Power ON/OFF	General frost protection solution for cold water pipework
2 IPSR132-CP	= 50/85°C	Power ON/OFF	General frost protection (smaller geometry)
3 SSR102-CP	= 50°C	Power ON	Frost protection of automated fire water sprinkler pipework
4 HWS-R/P	= 80/100°C	Power ON/OFF	Hot water temperature maintenance 50 to 60°C typ.
5 MSRxxx-CP	= 80/100°C	Power ON/OFF	Frost protection & temperature maintenance – LTHW etc.
6 VSRxxx-CX	= 110/135°C	Power ON/OFF	Frost protection & temperature maintenance – MTHW etc.
7 lCSR(e)xxx-CP	= 80/100°C	Power ON/OFF	Snow melting roofs, gutters & drainpipes
8 SmSR1002-CX	= 80/135°C	Power ON/OFF	Anti-icing of concrete ramps, access steps etc.



Industrial market sector (general industrial non-hazardous and ATEX certified hazardous areas), including:

Adhesives, battery, biodiesel, biomass, chemicals, displays, food & beverages, fuel oils, LNG storage & tanks, lubricants, marine, onshore and offshore oil, nuclear enrichment, nuclear power, paints, petrochemicals, pharmaceuticals, power generation, pulp & paper, semi-conductors, shipbuilding and water & wastewater.

Typical Applications: Frost protection of cold water pipework including emergency safety shower systems as well as a wide variety of process temperature maintenance applications on pipework and vessels up to +600°C but with the bulk of applications being up to +200°C. The primary reason for process temperature maintenance is to control the viscosity of the many and varied pipe contents to ensure that energy efficient pumping can take place.



● **Summary of Solco Pyroelec
Trace Heating Tapes**

Industrial/ATEX

1 FBLxxx-CF	= 65/85°C	Power ON/OFF	Frost protection and low temperature maintenance (T6)
2 FBHxxx-CT	= 110/135°C	Power ON/OFF	Medium temperature maintenance (T4)
3 FBXxxx-CT	= 150/200°C	Power ON/OFF	Higher temperature maintenance/steam cleaning (T3/T2)
4 FBZxxx-CT	= 200/240°C	Power ON/OFF	Higher temperature maintenance/steam cleaning (T3/T2)



● **Manufacturing expertise and R&D Centre
support from Solco Pyroelec HQ**

Solco Pyroelec are a high quality manufacturer of conductive polymer self-regulating heat tracing tapes, components and controls. The highly automated manufacturing plant, with a 2,300m² footprint with a maximum production capacity of 6,000,000 metres per year, was built on a site of 10,000m² and opened in 2007 in Anseong-si, South Korea and produces the following:

- Self-regulating trace heating tapes ▶ over 30,000,000 metres manufactured to date**
 - Non-PTC heating cables
- Ex certified enclosures and components ▶ over 40,000 units manufactured to date**
- Flexible electrical heating jackets ▶ over 3,000 units manufactured to date**
- Local trace heating control panels ▶ over 200 units manufactured to date**

Our manufacturing plant maintains QAN/QAR quality management systems according to ISO 9001:2015 covering:

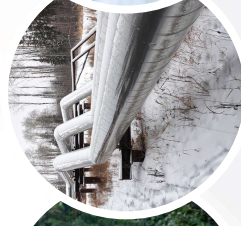
- 1** Design, development and manufacture of heating cables, component parts, heating jackets and electricity supply and control devices.
- 2** Engineering services.



We also fully comply with IEC 80079-34:2018 standards under third party quality audit. Solco Pyroelec has also maintained test facilities and procedures which are kept up to date under the OD-024 agreement and their test laboratory continues to be recognised by multiple Ex certification bodies.

All heat tracing cable and terminating components are designed and manufactured in full conformity with the latest editions of IEC 62395 (building services/commercial & non-hazardous areas) and IEC 60079 (industrial and Ex hazardous areas) series International standards.

This high quality manufacturing plant has been able to assist Solco Pyroelec UK Ltd. to grow substantially year on year since its formation in 2014 and we have found a high degree of acceptance of our high quality products throughout the EMEA Region.



● International Accreditations

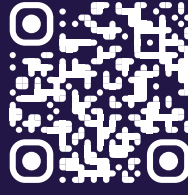
- DNV-GL EU recognised organisation (EU RO) mutual recognition type approval certificate – FBL, FBH, FBX & FBZ approval for IECEx type self-regulating heating cable system, anti-icing system and de-icing system onboard ships and offshore vessels.
- IECEx BAS 17.0009X – certificate of conformity for PYEX-EP Trace Heating System incorporating PYEX-EP enclosures for use with FBL, FBH, FBX & FBZ in accordance with Ex 60079-30-1 – Increased Safety, Electrical Resistance – Trace Heating.
- SGS Baseefa 17ATEX0016X Issue 2 (18th Nov 2021) – PYEX-EP Trace Heating System incorporating PYEX-EP enclosures for use with FBL, FBH, FBX and FBZ trace heating cables.

As well as the above accreditations Solco Pyroelec maintains product approvals with a wide range of global organisations including CCC, EAC, KCs and RMRS – please contact us for any specific details.



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