SOLCO. PYROELEC™





Parallel | Cable | 65°C ON 85°C OFF Temperature | PTC

Self-Regulating Heating Cable for Industrial Process Flow Control
Freeze Protection and Temperature Maintenance

FBL Heating Cable



Features

- No overheating or burn even it ovelap each other
- It self-regulates thermal performance in response to temperature
- It can be cut to any length to suit any installation condition
- Independent heat output control along the length
- Soft power switching for energy save and for longer service life
- Easy termination for power connection and splicing

Use

- Freeze protection for water pipepline
- Temperature maintenance for petrochemical and gas plant
- Hazardous location Ex e IIC Gb T6, IECEx Certified

Specification

- Temperature maintenance up to 65 °C (150°F) Power-On
- Continuous exposure temperature up to 85°C (185°F) Power-Off
- Temperature Class (T- rating) : T6 (85 °C)
- Rated voltage 200 ~ 277 Vac
- Available in 16, 24 and 30 watts/m
- approx. dimension FBL102 ~ FBL242 11.2mm x 5.6mm
  FBL302 13.5mm x 5.6mm
- Bus Wire - ASTM B355 Class 2 NPC 16 AWG
- Outer Jacket (Optional)
  CP - FR polyolefin : Exposure to aqueous inorganic chemicals
  CF - Fluoropolymer : Exposure to organic chemicals or corrosives

Approvals

IECEx

FM, IECEx accredited US authority approved Solco Pyroelec FBL and relevant accessories for hazardous locations according to IEC standards 60079-0. -7, and -30-1
Ex e IIC T6 Gb Cert No. IECEx FMG14.0011X

PYROEX™



Selection Code

FBL 16 2 – C P

Model	Rated Output	Rated voltage	Outer Jacket(Optional)
	10, 16, 24, 30 watt/m@10℃	2 : 200 ~ 277Vac	P : FR Polyolefin F : Fluoropolymer

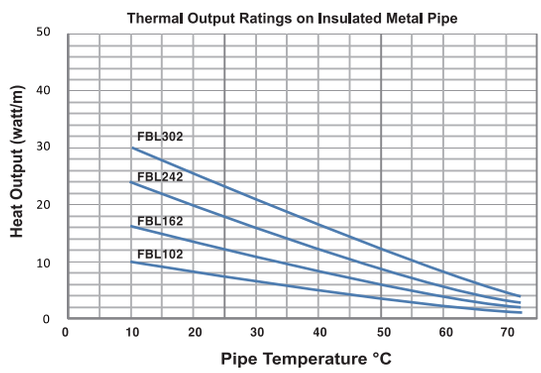
Circuit Breaker Selection

Max. circuit length (m) based on starting temp. (°C) and breaker size (Amps)

Product Code	Breaker Size (A)	Start-Up Temp. 10°C					Start-Up Temp. -20°C				
		10A	15A	20A	25A	30A	10A	15A	20A	25A	30A
FBL102		152	173	173	173	173	80	122	136	136	136
FBL162		80	120	141	141	141	43	64	85	107	109
FBL242		40	60	80	100	120	23	34	46	57	69
FBL302		27	40	53	67	80	20	30	40	50	60

* Based on Type C MCCB, 220Vac

Thermal Output Graph



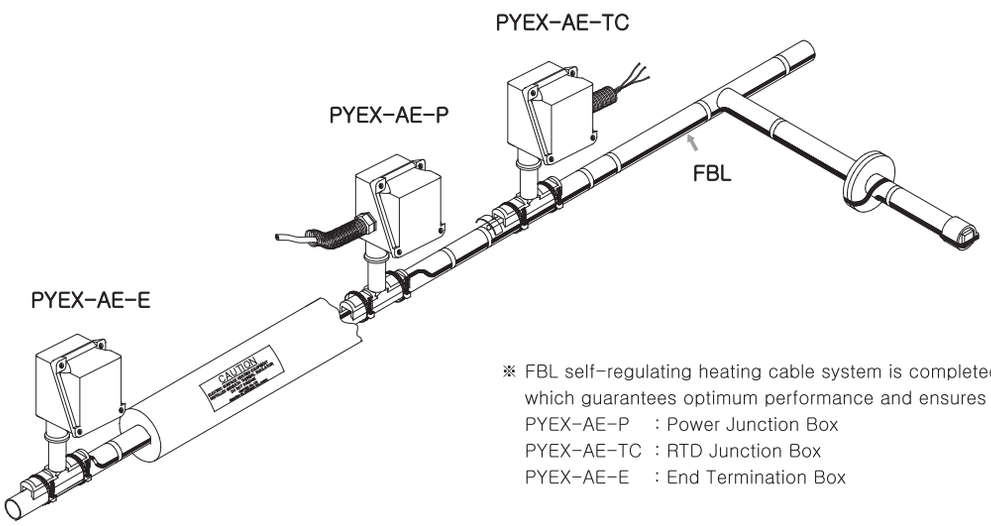
FBL Self-regulating heating cable complies to the below listed international standards

IEC 60079-0 :2011
Part 0 : General Requirements

IEC 60079-30-1 : 2007 Electrical Resistance Trace Heating
Part 30-1 : General and testing requirements

IEC 60079-7 : 2006
Part 7 : Equipment protection by increased safety “e”

Typical Installation



※ FBL self-regulating heating cable system is completed with the following components, which guarantees optimum performance and ensures explosion protection.
PYEX-AE-P : Power Junction Box
PYEX-AE-TC : RTD Junction Box
PYEX-AE-E : End Termination Box