FBL

Self-regulating heating cable for low to medium temperature process flow control

Use

Freeze protection for water pipeline.
Temperature maintenance for petrochemical and gas plant use in hazardous location.
Use in hazardous and non-hazardous location.

Specification

Max. maintain temperature (Power-on) 65°C (150°F)
Max. withstand temperature (Power-off) 85°C (185°F)
Min. installation temperature : -60°C
Temperature classification (T- rating) : T6 (85°C)
Rated voltage : 100 ~ 120 Vac, 200 ~ 277 Vac
Rated power output : 10, 16, 24 and 30 watt/m@10°C
Dimension(nom.)
FBL10x, 16x, 24x 11.6mm x 5.6mm
FBL30x 13.6mm x 5.6mm
Parallel conductors - ASTM B355 Class 2 NPC AWG16 (1.5mm^2)
Outer jacket
FR polyolefin (CP) : Exposure to aqueous inorganic chemicals
Fluoropolymer (CF) : Exposure to organic chemicals or corrosives

Features

It will not burn out or overheat when overlapped.
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 saving as well as longer service life.
Easy termination for powering and splicing.

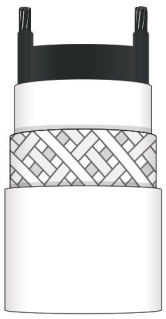
Selection Code

FBL	16	2	-	C	P
ⓐ	ⓑ	ⓒ			ⓓ

ⓐ	Model
ⓑ	Rated output 10, 16, 24 and 30 watt/m@10°C
ⓒ	Rated voltage 1 : 100 ~ 120 Vac, 2 : 200 ~ 277 Vac
ⓓ	Outer jacket P : FR Polyolefin F : Fluoropolymer

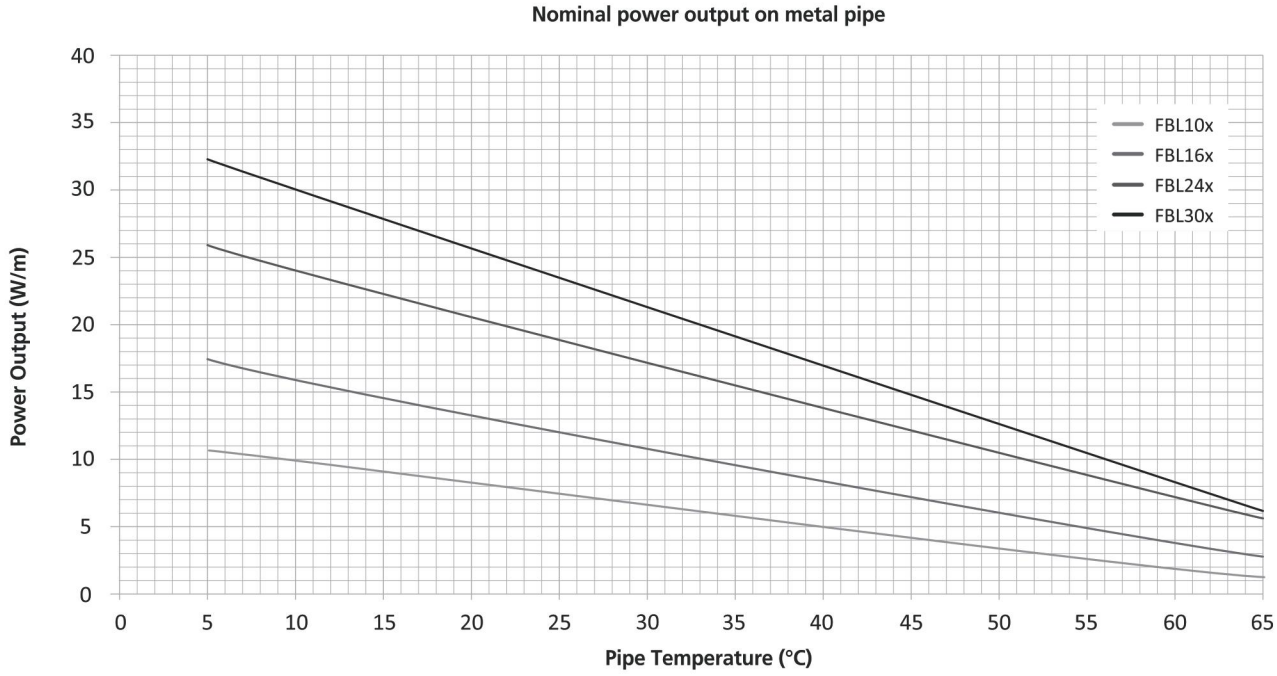
Certification

Product drawing



Parallel conductors	Nickel plated copper wire
Polymeric heating element	PE + C/B
Primary insulation	Flame-retardant polyolefin
Earthing	Braided tin plated copper wire
Outer jacket	FR polyolefin or fluoropolymer

Power output graph



Circuit design guide

Breaker size(A) / Product code	Start-up Temp. -20°C						Start-up Temp. 0°C						Start-up Temp. 10°C					
	10A	16A	20A	25A	32A	40A	10A	16A	20A	25A	32A	40A	10A	16A	20A	25A	32A	40A
FBL102-CP(F)	84	134	155	155	155	155	101	162	169	169	169	169	131	193	193	193	193	193
FBL162-CP(F)	59	94	118	129	129	129	71	113	141	142	142	142	92	147	162	162	162	162
FBL242-CP(F)	42	67	84	104	111	111	49	79	99	122	122	122	66	105	131	137	137	137
FBL302-CP(F)	32	51	64	80	101	101	32	51	64	80	102	113	41	66	82	102	124	124

Max. circuit length(m) at 230Vac based on starting temp. (°C) and typical Type C circuit breaker size (Amps).