

FBH

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



Use	<p>Freeze protection for water, fuel, chemical pipeline. Temperature maintenance for petrochemical and gas plant. Use in hazardous and non-hazardous location.</p>								
Specification	<p>Max. maintain temperature (Power-on) 110°C (230°F) Max. withstand temperature (Power-off) 135°C (275°F) Min. installation temperature -60°C Temperature classification (T- rating) : T4 (135°C) Rated voltage : 100 ~ 120 Vac, 200 ~ 277 Vac Rated power output : 15, 30, 45 and 60 watt/m@10°C Dimension(nom.) FBH 15x, 30x, 45x 12.9mm x 5.2mm FBH 60x 14.8mm x 5.6mm Parallel conductors FBH15x, 30x, 45x ASTM B355 Class 2 NPC AWG16 (1.5mm²) FBH60x ASTM B355 Class 2 NPC AWG14 (2.5mm²) Outer jacket Fluoropolymer (CT) : Exposure to organic chemicals or corrosives Flame - retardant XLEVA (CX) : Exposure to aqueous inorganic chemicals</p>								
Features	<p>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.</p>								
Selection Code	<p>FBH 30 2 - C T ① ② ③ ④ ⑤</p> <table border="1" data-bbox="528 1727 1158 1868"> <tr> <td>①</td> <td>Model</td> </tr> <tr> <td>②</td> <td>Rated output 15, 30, 45 and 60 watt/m@10°C</td> </tr> <tr> <td>③</td> <td>Rated voltage 1 : 100 ~ 120 Vac, 2 : 200 ~ 277 Vac</td> </tr> <tr> <td>④</td> <td>Outer jacket T : Fluoropolymer, X : FR XLEVA</td> </tr> </table>	①	Model	②	Rated output 15, 30, 45 and 60 watt/m@10°C	③	Rated voltage 1 : 100 ~ 120 Vac, 2 : 200 ~ 277 Vac	④	Outer jacket T : Fluoropolymer, X : FR XLEVA
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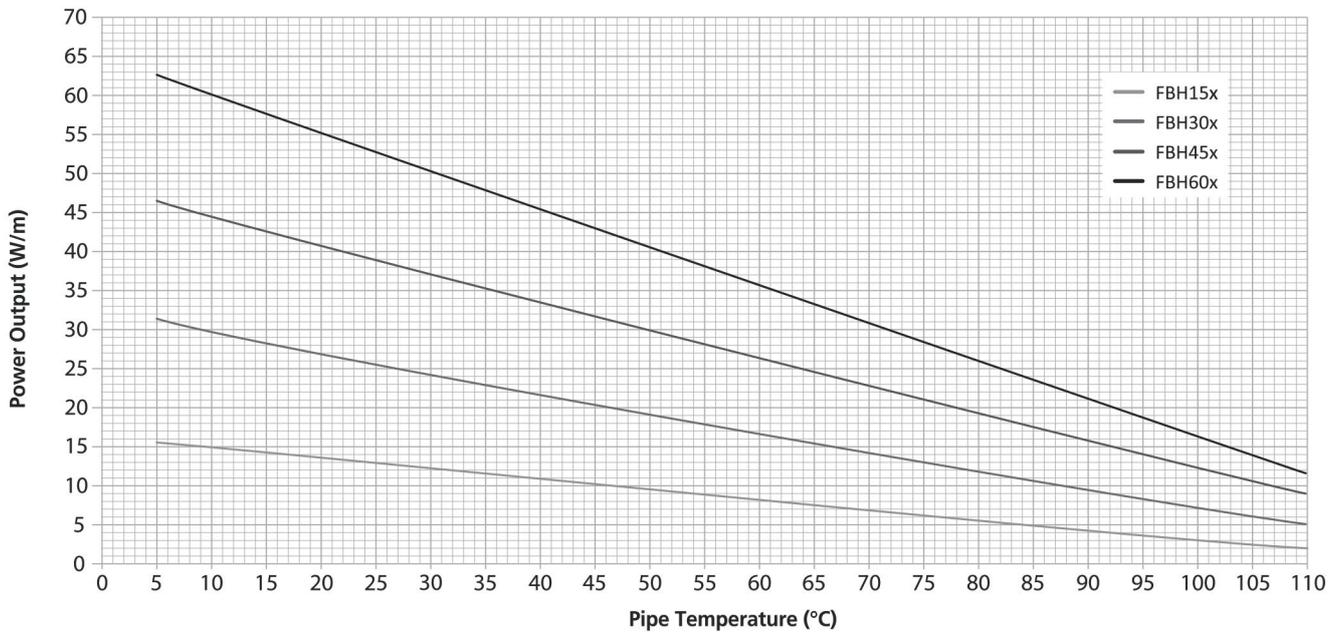
Product drawing



- Parallel conductors: Nickel plated copper wire
- Polymeric heating element: Fluoropolymer + C/B
- Primary insulation: Flame-retardant XLEVA
- Earthing: Braided tin plated copper wire
- Outer jacket: Fluoropolymer

Power output graph

Nominal power output on metal pipe



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
FBH152-CT	65	104	130	136	136	136	78	125	149	149	149	149	80	128	151	151	151	151
FBH302-CT	39	63	79	99	106	106	47	75	94	116	116	116	48	77	97	117	117	117
FBH452-CT	28	45	57	71	90	90	33	53	66	82	97	97	35	56	69	87	99	99
FBH602-CT	23	37	46	57	73	85	25	40	50	63	80	88	27	43	54	68	87	92

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