

FBZ

Self-regulating heating cable
for extremely high temperature process flow control



<p>Use</p>	<p>Freeze protection for various pipeline under steam purging process. Temperature maintenance for petrochemical and gas plant. Medium or heavy duty heat-up process ex) hopper heater. Use in hazardous and non-hazardous location.</p>								
<p>Specification</p>	<p>Max. maintain temperature(Power-on) 200°C (392°F) Max. withstand temperature(Power-off) 240°C (464°F) Min. installation temperature -60°C Temperature classification (T- rating) FBZ15x, 30x, 45x : T3 (200°C) FBZ60x : T2 (220°C) Rated voltage : 100 ~ 120 Vac, 200 ~ 277 Vac Rated power output : 15, 30, 45 and 60 watt/m@10°C Dimension(nom.) : 12.2mm x 4.8mm Parallel conductors - ASTM B355 Class 2 NPC AWG16 (1.5mm²) Outer jacket Fluoropolymer (CT) : Exposure to organic chemicals or corrosives</p>								
<p>Features</p>	<p>It will not burn out or overheat even 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 power connection and splicing.</p>								
<p>Selection Code</p>	<p>FBZ 60 2 - C T Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ</p> <table border="1"> <tr> <td>Ⓐ</td> <td>Model</td> </tr> <tr> <td>Ⓑ</td> <td>Rated output 15, 30, 45 and 60 watt/m@10°C</td> </tr> <tr> <td>Ⓒ</td> <td>Rated voltage 1 : 100 ~ 120 Vac, 2 : 200 ~ 277 Vac</td> </tr> <tr> <td>Ⓓ</td> <td>Outer jacket T : Fluoropolymer</td> </tr> </table>	Ⓐ	Model	Ⓑ	Rated output 15, 30, 45 and 60 watt/m@10°C	Ⓒ	Rated voltage 1 : 100 ~ 120 Vac, 2 : 200 ~ 277 Vac	Ⓓ	Outer jacket T : Fluoropolymer
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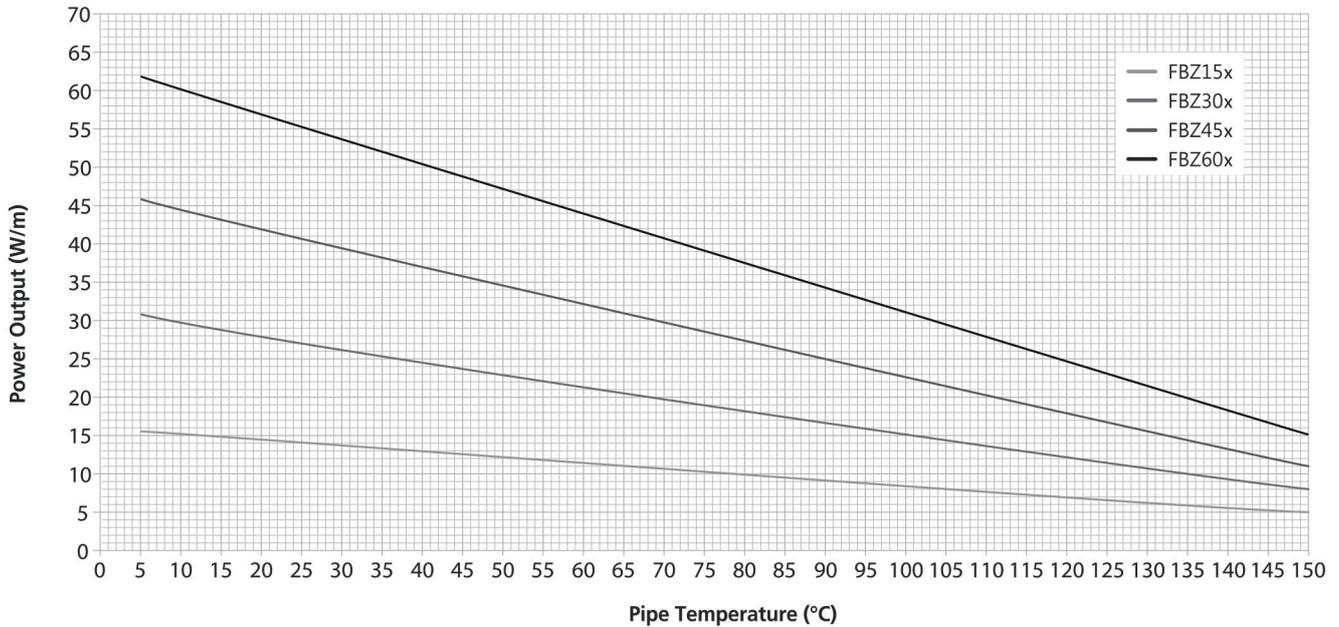
Product drawing



- Parallel conductors Nickel plated copper wire
- Polymeric heating element Fluoropolymer + C/B
- Primary insulation Fluoropolymer
- Earthing Braided nickel plated or 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
FBZ152-CT	51	82	103	121	121	121	60	96	120	130	130	130	62	98	123	132	132	132
FBZ302-CT	37	59	74	93	103	103	39	62	78	97	105	105	41	66	82	102	108	108
FBZ452-CT	28	44	56	69	89	89	29	47	58	73	91	91	31	49	61	77	93	93
FBZ602-CT	22	36	45	56	71	80	24	38	47	59	75	82	25	39	49	61	79	83

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