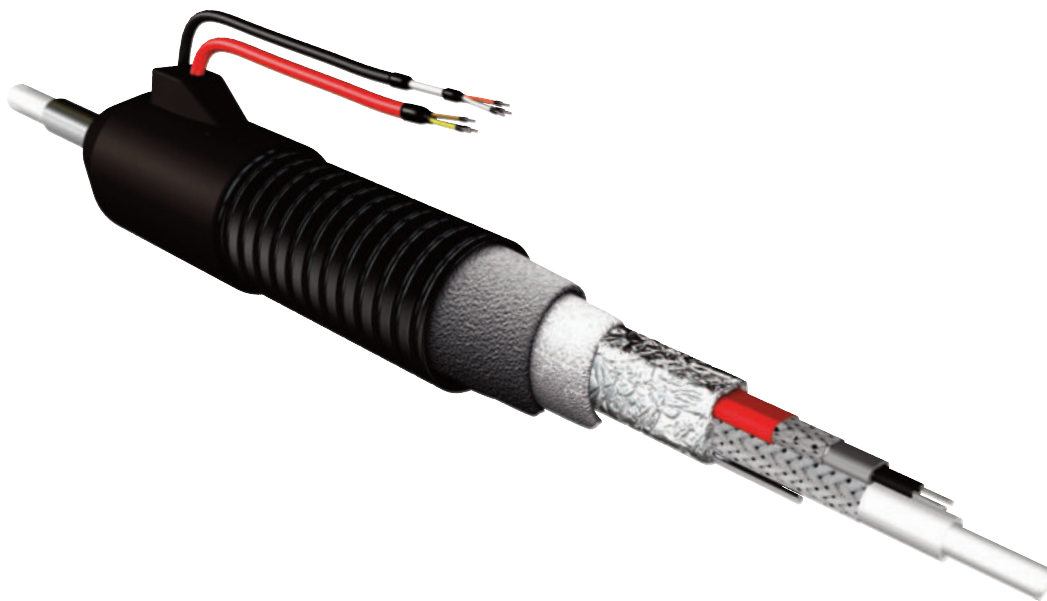


JH3BE

Heated Sample Line self-regulating cut-to-length



Gas Sampling
Probes

Heated Sample Lines

Sample Gas
Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

APPLICATION

- Extractive gas analysis
- Emission and process monitoring
- Transport of sample gas from sample point to analysis system
- Remains steadily/safely above acid dew point or for frost protection
- To prevent measurement faults
- Indoor and outdoor use

BENEFITS

- No condensate formation, no freezing
- Resilient external protection
- Excellent insulation
- Optimal heat deployment
- Available for "cut-to-length on-site" in rolls up to 150 m with additional termination kits
- Available as "ready-to-use" heated sample line with termination from factory

FEATURES

- Operating temperature up to 120 °C
- External jacket of corrugated polyamide PA12
- Heat insulation with thermo fleece
- Sample gas core: PTFE, PFA or SS316, DN 4 to DN 10 mm
- Delivered with end caps mounted from factory or open end(s) for on site termination
- Second core for e.g. calibration gas as option

TECHNICAL DATA

Model

JH3BE

Description	self-regulated heated sample line "cut-to-length on-site" or "pre-assembled" from factory
External jacket	corrugated polyamide 12 jacket, black option: with silicone layer
Sample gas core	fixed; interchangeable on request
Area of application	fixed installation indoor and outdoor

Operation Data

Operating temperature	self-regulating 30 °C / 100 °C / 120 °C (optional 5 °C / 50 °C / 80 °C) at -20 °C ambient temperature
Operating pressure (max. at 150 °C)	atmospheric option pressure hose: - PTFE / PFA core: DN 4/6 mm 6 bara; DN 6/8 mm 4 bara; DN 8/10 mm 3 bara, 1/4" OD 7 bara, 3/8" OD 5 bara - SS316 core, all diameters: 10 bara
Ambient temperature	-20 °C to +60 °C

Construction

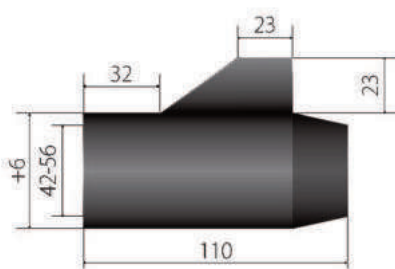
Material sample gas core	PTFE, PFA, SS316
Heating Element	heating cable
Thermal insulation	multi-layered thermal fleece
End configuration	silicone caps (mounted ex-works or on-site termination kit)
Maximum length of finished sample line	see table "rated output" / column "maximum length of heating circuit" page 4
Outer diameter heated sample line (without end caps)	for operating temperatures up to 100 °C: 43 mm for operating temperature 120 °C: 55 mm
Dimensions silicone end caps	heated sample line diameter plus 6 mm
Minimum bending radius	DN 4/6 and DN 6/8 mm: 230 mm DN 8/10 and DN 10/12mm: 280 mm with interchangeable inner core: DN 4/6 and DN 6/8 mm: 280 mm
Weight	1000 g/m
Maximum production length	max. 150 m
Protection class	IP54 (EN60529)
Approvals / Sign	CE

Electrics

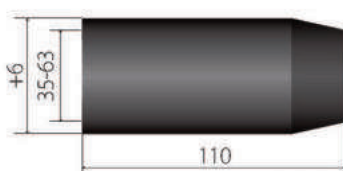
Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz
Power consumption	see table "power consumption" page 4
Temperature sensor	without; optional 2-wire PT100; others on request
Power supply cable (if terminated from factory)	1.5 m cable with open leads, depending on power consumption: up to 16 A = 3 x 1.5 mm ² cables up to 25 A = 3 x 2.5 mm ² cables up to 32 A = 3 x 6 mm ² cables with modified end cap

* At voltages below 230 VAC the power density is reduced and at ambient temperatures below 0 °C the max. temperature is reduced. For further information please contact our **JCT** sales team.

Dimensions of end caps



end cap for self termination, included in set



end cap side 2



end cap for factory termination type "L"

Dimensions in mm

ORDER CODE

JH3BE



Maintain temperature max. 30 °C at -20 °C	1			
Maintain temperature max. 100 °C at -20 °C	2			
Maintain temperature max. 120 °C at -20 °C	3			
Jacket made of corrugated PA 11/12		4		
Core 500 mm protruded			0	
Line length without protrusion in dm (e.g.: 10 m = 0100; 4,5 m = 0045)			-XXXX-	
Diameter DN 4/6 mm				4
Diameter DN 6/8 mm				6
Diameter DN 8/10 mm				8
Diameter DN 1/4"				5
Diameter DN 3/8"				7
PTFE core				PTFE
PFA core				PFA
SS316 core				SS
Power supply 230 VAC / 50/60 Hz				2
Power supply 115 VAC / 50/60 Hz				1
Without calibration gas core				0
Calibration gas core DN 4/6 mm, PTFE				4
End configuration side 2 (without electr. connection): open (for self-termination)				0
End configuration side 2 (without elect. connection): silicon cap				H
End configuration side 1 (with electrical connection): open (for self termination)				L
End configuration side 1 (with electrical connection): silicone cap				L
Without temperature sensor				T0
With 2-wire PT100 (built in from factory, only with end configuration "L")				T1
Customized version (detailed description needed)				XY

Order code

4	0	-	-									XY
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Accessories

Part Number

	Universal mounting clamp for mounting at gas sample probes series JES for line diameters 35 to 50 mm	35.00980
	Universal mounting clamp for mounting at gas sample probes series JES for line diameters 50 to 61 mm	35.00981
	2 x silicone cap connection, 1,5 m connection cable (silicone, 3 x 1,5 mm²), for self assembly, holding temp. 5 °C to 30 °C	68.00100
	2 x silicone cap connection, 1,5 m connection cable (silicone, 3 x 1,5 mm²), for self assembly, holding temp. 50 °C to 100 °C	68.00110
	2 x silicone cap connection, 1,5 m connection cable (silicone, 3 x 1,5 mm²), for self assembly, holding temp. 120 °C	68.00120
	Additional material is required for each set. Sufficient for 5 connections and terminations	68.00130
Temperature sensor	PT100 / 2-wire RTD	68.00150

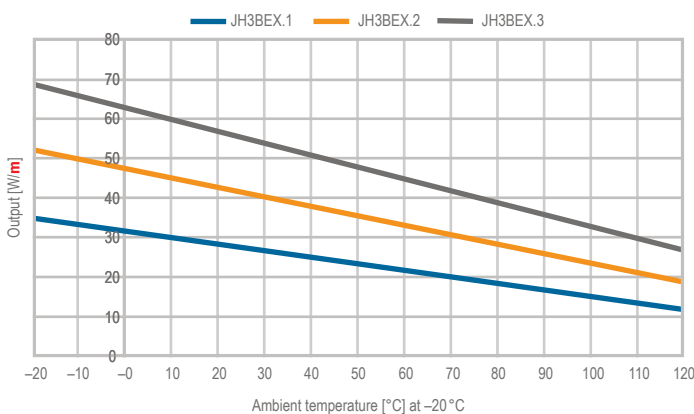
RATED OUTPUT

230 VAC				
Start-up temperature	Fuse circuit breaker (A)	max. length of heating circuit (m)		
		JH3BEX.1	JH3BEX.2	JH3BEX.3
10 °C	16	80,0	53,0	39,0
	20	100,0	66,0	49,0
	25	109,0	83,0	62,0
	32	109,0	89,0	77,0
0 °C	16	75,0	50,0	37,0
	20	95,0	63,0	47,0
	25	106,0	79,0	59,0
	32	106,0	86,5	75,0
-10 °C	16	71,0	48,0	35,0
	20	90,0	60,0	44,0
	25	103,5	75,0	56,0
	32	103,5	84,5	68,0
-20 °C	16	68,0	45,0	34,0
	20	85,0	57,0	42,0
	25	101,0	72,0	54,0
	32	101,0	82,5	65,0

115 VAC				
Start-up temperature	Fuse circuit breaker (A)	max. length of heating circuit (m)		
		JH3BEX.1	JH3BEX.2	JH3BEX.3
10 °C	15	49,5	31,0	22,0
	20	66,5	42,0	30,0
	25	84,0	53,0	38,0
	30	101,0	64,0	46,0
0 °C	15	47,0	29,5	21,0
	20	64,0	40,0	28,0
	25	80,0	51,0	36,0
	30	69,0	62,0	44,0
-10 °C	15	45,5	29,0	20,0
	20	61,0	39,0	27,0
	25	77,0	49,0	34,0
	30	93,0	59,0	41,5
-30 °C	15	68,0	26,5	18,0
	20	57,0	36,0	24,5
	25	72,0	46,0	31,0
	30	86,0	55,0	37,5

POWER CONSUMPTION

230 VAC note: consumption (metric) [W/m]



120 VAC note: consumption (imperial) [W/ft]

