

FLEXIBLE TUBULAR HEATING

hotflex[®]



hotflex[®] Ø 6,5 ROUND CROSS-SECTION

hotflex[®] Ø 8,5 ROUND CROSS-SECTION

hotflex[®] / Q 6x6 SQUARE CROSS-SECTION

hotflex[®] / Q 8x8 SQUARE CROSS-SECTION

CONNECTION VERSIONS





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HS – 050.48E

hotflex® FLEXIBLE TUBULAR HEATING

The model of Hotset hotflex ® is a flexible tubular connection resistance at both ends designed especially for motherboards hot runner molds.

Both models are manufactured in standard Ø 6.5, and 8.5 mm.

hotflex® resistors can also be used for applications in which due to its flexibility, its high specific charge and stability in alkaline media gaining the advantage in large part to conventional manufacturing.

hotflex® resistors are supplied straight, and conform easily manually, either by inserting them into a slot or directly. They are easy to assemble because they can adapt to the radii of curvature of the existing slots.

During the assembly can change the radius of curvature as many times as necessary.

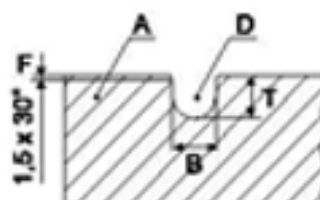
The time saving is considerable both in the first assembly, as possible replacements

STANDARD MODELS Ø 8,5 mm.

Lt mm.	W a 230 V	
300	650	
350	750	
400	900	
450	1050	
500	1150	700
550	1300	780
600	1450	860
650	1600	950
700	1750	1000
750	1900	1100
800	2050	1190
850	2200	1250
900	2350	1350
950	2500	1430
1000	2650	1500
1050	1800	1590
1100	2930	1650
1150	3060	1750
1200	3190	1830
1250	3320	1900
1300	3450	1990
1350	3580	2070
1400	3710	2150
1450	3840	2230
1500	3970	2300

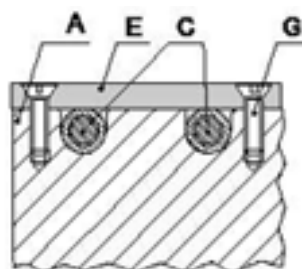
STANDARD MODELS Ø 6,5 mm.

Lt mm.	W a 230 V	
300	350	
350	400	
400	500	
450	600	
500	650	
550	700	
600	800	
650	850	
700	900	
750	1000	
800	1100	
850	1200	
900	1300	
950	1350	
1000	1400	
1050	1450	
1100	1500	
1150	1550	
1200	1600	
1250	1650	
1300	1700	
1350	1800	
1400	1900	
1450	2000	
1500	2100	

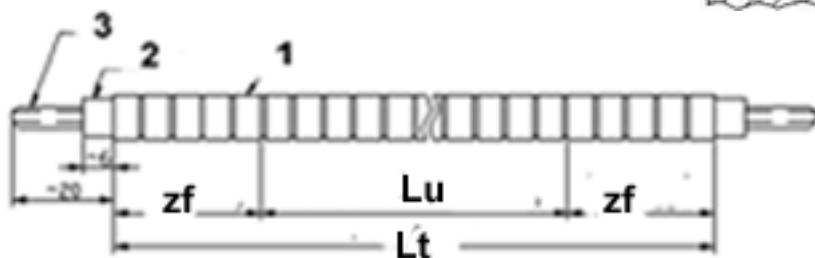


The **hotflex®** can directly be inserted, pressed or e. g. Put bay using a plastic hammer into a groove of a tool

A Manifold
D Groover
B = T = Ø **hotflex®** ± 0,1 mm.



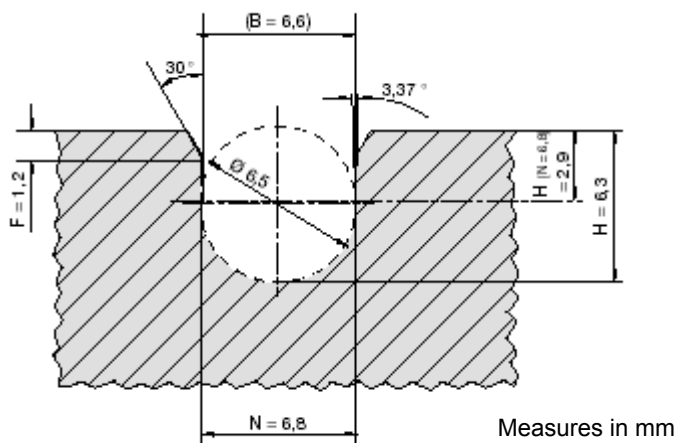
Finished plate
insulating material
A Manifold
C **hotflex®**
E Insulating plate
G Screws



- 1 Outer sheath stainless steel 1.4551
- 2 Ceramic insulator
- 3 Threaded pins M2,5 with set of nuts and washers of stainless steel

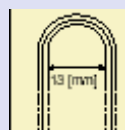
- Lt Total length
Lu Flexible heated length)
zf Unheated zone, not bendable (min 30mm)

hotflex® Ø 6,5



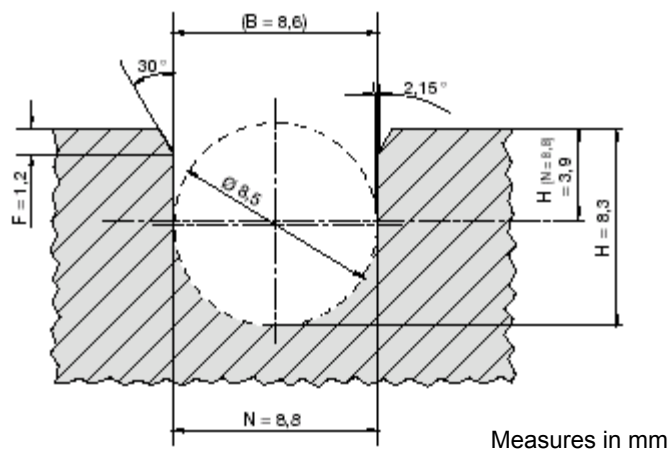
TECHNICAL DATA

- Diámetro , 6,5 ± 0,1 %
- Sheath material: Stainless Steel
- Sheath temperature of heating element: max. 700 °C.
- Voltage: max. 250 V, Standard: 230 V
- Power tolerance (cold): ± 10%
- High voltage strength (cold):: 1000 Vca
- Insulation resistance (cold): ≥ 5 MΩ at 500 V-DC.
- Leakage current (cold): ≤ 0.5 mA bei 253 V-AC
- max. total length straight 1500 mm.
- Length tolerance: ± 1,5%
- Extensión factors:
When determining the total length, please consider the length tolerance of ± 1,5%
Grove length (according to radius R)xExtension factor = Length L Hotflex
At radius R 6,5 mm. = 0,98
At radius R 10,0 mm. = 0,98
At radius R 12,5 mm. = 0,97
At radius R 15,0 mm. = 0,97
At radius R >15,0 mm. = 0,98
- Sheat surface load 10 W/cm² according to application
- Minimum bending radius R = 6,5 mm. (internal).



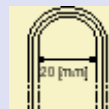
- Unheated zones min. 30 / 30mm
- Non bendable zones min. 30 / 30 mm mínimo 30 mm.
- Connection options, see page 4

hotflex® Ø 8,5



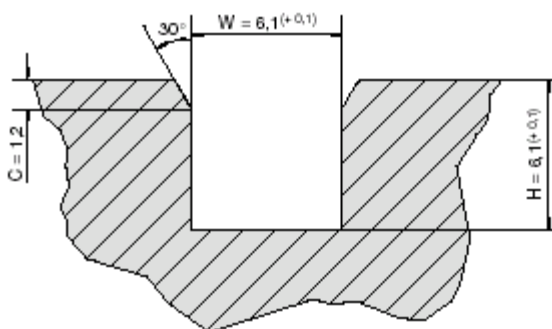
TECHNICAL DATA

- Diámetro , 8,5 ± 0,1 %
8,0 ± 0,1 %, 8,2 ± 0,1 % on option
- Sheath material: Stainless Steel
- Sheath temperature of heating element: max. 700 °C.
- Voltage: max. 250 V, Standard: 230 V
- Power tolerance (cold): ± 10%
- High voltage strength (cold):: 1000 Vca
- Insulation resistance (cold): ≥ 5 MΩ at 500 V-DC.
- Leakage current (cold): ≤ 0.5 mA bei 253 V-AC
- max. total length straight 1500 mm.
- Length tolerance: ± 1,5%
- Extensión factors:
When determining the total length, please consider the length tolerance of ± 1,5%
Grove length (according to radius R)xExtension factor = Length L Hotflex
Hotflex Ø 8,0 - 8,2 mm
At radius R 10,0 mm. = 0,92
At radius R 12,5 mm. = 0,93
At radius R 15,0 mm. = 0,94
At radius R >15,0 mm. = 0,96
Hotflex Ø 8,5 mm
At radius R 10,0 mm. = 0,94
At radius R 12,5 mm. = 0,95
At radius R 15,0 mm. = 0,95
At radius R >15,0 mm. = 0,96
- Sheat surface load 10 W/cm² according to application
- Minimum bending radius R = 6,5 mm. (internal).



- Unheated zones min. 30 / 30mm
- Non bendable zones min. 30 / 30 mm mínimo 30 mm.
- Connection options, see page 4

hotflex® / Q 6 x 6



Measures in mm

TECHNICAL DATA

- Profile 6 x 6 mm
- Sheath material: Stainless Steel
- Sheath temperature of heating element: max. 700 °C.
- Voltage: max. 250 V, Standard: 230 V
- Power tolerance (cold): $\pm 10\%$
- High voltage strength (cold): 1000 Vca
- Insulation resistance (cold): $\geq 5 \text{ M}\Omega$ at 500 V-DC.
- Leakage current (cold): $\leq 0,5 \text{ mA}$ bei 253 V-AC
- max. total length straight 1500 mm.
- Length tolerance: $\pm 1,5\%$
- Extension factors:

When determining the total length, please consider the length tolerance of $\pm 1,5\%$

Grove length (according to radius R) x Extension factor = Length L Hotflex

At radius R 6,5 mm. = 0,97

At radius R 10,0 mm. = 0,97

At radius R 12,5 mm. = 0,97

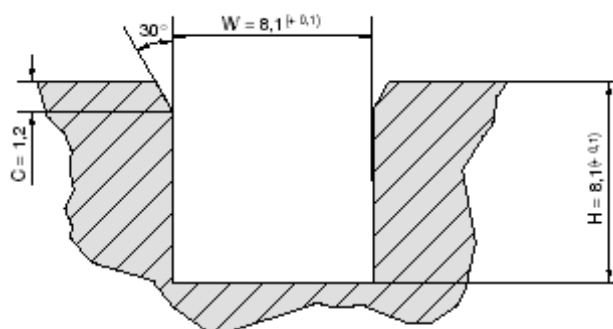
At radius R 15,0 mm. = 0,97

At radius R >15,0 mm. = 0,98

- Sheat surface load 10 W/cm² according to application
- Minimum bending radius R = 6,5 mm. (internal).

- Unheated zones min. 30 / 30mm
- Non bendable zones min. 30 / 30 mm mínimo 30 mm.
- Connection options, see page 4

hotflex® / Q 8 x 8



Measures in mm

TECHNICAL DATA

- Profile 8 x 8 mm
- Sheath material: Stainless Steel
- Sheath temperature of heating element: max. 700 °C.
- Voltage: max. 250 V, Standard: 230 V
- Power tolerance (cold): $\pm 10\%$
- High voltage strength (cold): 1000 Vca
- Insulation resistance (cold): $\geq 5 \text{ M}\Omega$ at 500 V-DC.
- Leakage current (cold): $\leq 0,5 \text{ mA}$ bei 253 V-AC
- max. total length straight 1500 mm.
- Length tolerance: $\pm 1,5\%$
- Extension factors:

When determining the total length, please consider the length tolerance of $\pm 1,5\%$

Grove length (according to radius R) x Extension factor = Length L Hotflex

At radius R 10,0 mm. = 0,95

At radius R 12,5 mm. = 0,95

At radius R 15,0 mm. = 0,96

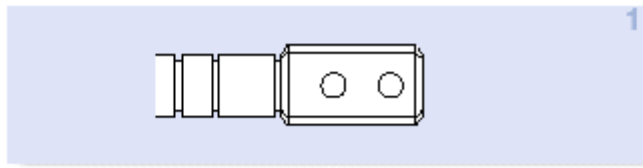
At radius R >15,0 mm. = 0,97

- Sheat surface load 10 W/cm² according to application
- Minimum bending radius R = 6,5 mm. (internal).



- Unheated zones min. 30 / 30mm
- Non bendable zones min. 30 / 30 mm mínimo 30 mm.
- Connection options, see page 4

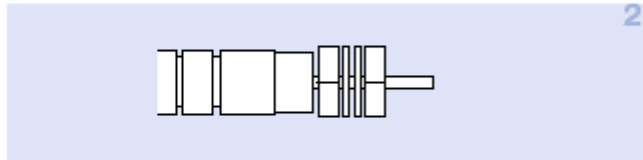
CONNECTION OPTIONS hotflex®



1

Ceramic terminal connector "plug'n heat"

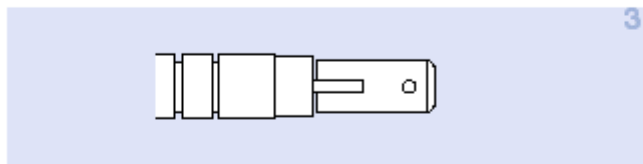
- B14 x H21 x T25 mm
- This ceramic terminal is ready for installation
- No additional insulation necessary
- Heat resistant up to 230 °C in continuous operation. (max. Up to 280 °C)



2

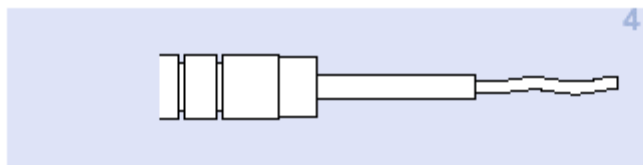
Threaded pins (Standard)

- M2,5 with set of nuts and washers of stainless steel.
- Optional M4 with set of nuts and washers of stainless steel (Only for Hotflex ø 8,5 - Hotflex Q 8 x 8)



3

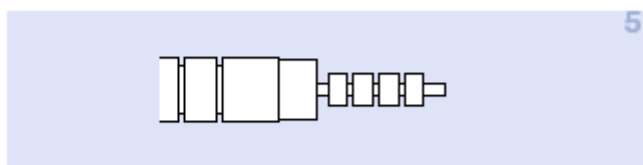
Flat plug (W = 6,3 mm)



4

External mounted leads

- Glass silk insulated Ni—leads, multiwire (also with cable socket for M2,5 and M4)
- PTFE insulated Ni-leads, multiwire
- High temperature mineral fibre insulated Ni-leads, multiwire
- Tube section casted with ceramic kit
Only for Hotflex ø 8,5 - Hotflex Q 8 x 8



5

Plain Ni.leads

- WIT ceramic vedas

