

Cartridge Heaters

Flanged / Flanged, Lead Wire Selectable

Be sure to refer to "Precautions for Use" in the Cartridge Heater Overview on P.1491.

Flanged

MCFH

Material: Heater : 321 Stainless Steel
Terminal : Copper
Lead Wire : Nickel (Ni)
Lead Wire Film: Glass Braid
Lead Wire Heat Resistance Temperature: 180°C

When D=9.42 or 12.6, the O.D. tolerance will be +0.05~0.
For D6 and D8, the position of the terminal (22) is 17 and 37 with shifting two terminals.
D=Insulator is not attached for D6.
Maximum Operating Temperature: 600°C
Maximum Operating Temperature means value at the sheath part. Please pay attention to Lead Wire Heat Resistance Temperature and be sure to put the lead wire out of the mounting hole.

Part Number	Type	D	L 1mm Increment	V (Voltage)	W (Electric Power) 10W Increment	F (Lead Wire Length)	Electrical Power Density (W/cm ²)	Unit Price					
								L50-100	L101-200	L201-300	L301-400	L401-500	L501-600
MCFH	6	50-250	100	50-500	100	1000	2 ≤ W/cm ² ≤ 15 W/(Dπ(L-15)/100) Calculate with the electrical power density of heat-generating part, not with the overall length.						
			110	50-500									
			200	60-600									
			220	80-600									
			100	50-600									
			110	50-600									
	8	50-400	200	50-1200									
			220	70-1200									
			100	50-600									
			110	50-600									
			200	50-1200									
			220	70-1200									
	9.42 (3/8 inch)	50-400	100	50-600									
			110	50-600									
			200	50-1200									
			220	70-1200									
			100	50-600									
			110	50-600									
	10	50-600	200	50-1200									
			220	70-1200									
			100	50-800									
			110	50-800									
			200	50-1600									
			220	70-1600									
12.6 (1/2 inch)	50-600	100	50-800										
		110	50-800										
		200	50-1600										
		220	70-1600										
		100	50-800										
		110	50-800										
14	50-600	200	50-1600										
		220	80-1600										

- Feature**
- Cartridge heater with a flange mounted on the end section. The heater can be easily secured with M4 bolts.
 - Prevent the Cartridge Heater from falling off from the device.
- Precautions for Use**
- Do not let the heaters run idle in the atmosphere. If the heat generating part of the heater is operated out of the heated objects, the wire may break or ignite due to abnormal heating.

Cartridge Heaters - Flanged, Lead Wire Selectable

MCFHA
(Flange Shape A)

Material: Heater : 304 Stainless Steel
Lead Wire: See Below
Terminal: Copper (Tin Plating)
Flange: Stainless Steel

Maximum Operating Temperature: 600°C
Maximum Operating Temperature means value at the sheath part. Please pay attention to Lead Wire Heat Resistance Temperature and be sure to put the lead wire out of the mounting hole.

Cartridge Heaters - Flanged, Lead Wire Selectable

Part Number	Type	D	L 1mm Increment	V (Voltage)	W (Electric Power) 10W Increment	F (Lead Wire Length) Lead Wire Type 10mm Increment	Terminal	Electrical Power Density (W/cm ²)
MCFHA	8	50-400	100	50-600	B	100-1000	N M Y	2 ≤ W/cm ² ≤ 15 W/(Dπ(L-8.5)/100) Calculate with the electrical power density of heat-generating part, not with the overall length.
			200	50-1200	G			
			220	50-1200	T			
	10	50-600	100	50-800	M			
			110	50-800				
			200	50-1600				
12	50-600	100	50-800					
		110	50-800					
		200	50-1600					

Lead Wire Type				Type of Terminal		
Symbol	Lead Wire Type	Heat Resistance Temperature	Features	Symbol	Type of Terminal	Nominal Screw
B	Tin Plated Annealed Copper Fiber Glass Braided Wire	180°C	General Use	N	No Crimp Terminal	M4
G	Silicon Rubber + Tin Plated Annealed Copper Wire	180°C	For chemical and water resistant items	M	Crimp Terminal - Round	M4
T	Teflon + Nickel Plated Annealed Copper Wire	260°C	For chemical, water and weather resistant items	Y	Crimp Terminal - Y-Shaped	M4
M	Mica Polyimide-Wound Silica + Nickel Coated Copper Wire	400°C	For heat resistant items			

Price [Configure Online](#) Days to Ship [Configure Online](#)

D	Heater Body Price						Additional Lead Wire Price (Body Price +)				Additional Terminal Price (Body Price +)		
	L50-100	L101-200	L201-300	L301-400	L401-500	L501-600	B	G	T	M	N	M	Y
8													
10													
12													

Ordering Example: **Part Number** - L - V - W - F Lead Wire - Terminal
MCFHA12 - 300 - V100 - W350 - M 1000 - Y

Precautions for Use

- Do not let the heaters run idle in the atmosphere. If the heat generating part of the heater is operated out of the heated objects, the wire may break or ignite due to abnormal heating.
- Keep the temperature around the flange at 180°C or below.
- Keep the temperature around the lead wire exit at 130°C or less.

Cartridge Heaters

Flex-Resistant

Be sure to refer to "Precautions for Use" in the Cartridge Heater Overview on P.1491.

Flex-Resistant

MCHKD

Material: Heater : 321 Stainless Steel
Lead Wire : Nickel (Ni)
Lead Wire Film : Silicon Rubber + Glass Braid
Lead Wire Heat Resistance Temperature: 220°C

Maximum Operating Temperature: 400°C
Maximum Operating Temperature means value at the sheath part. Please pay attention to Lead Wire Heat Resistance Temperature and be sure to put the lead wire out of the mounting hole.

Part Number	Type	D	L	V (Voltage)	W (Electric Power)	Electrical Power Density (W/cm ²)	Unit Price
MCHKD	8	60	60	100	100	8.8	
				120	10.6		
				100	8.8		
				120	10.6		
			80	100	150	9.2	
				200	150	9.2	
				100	200	9.4	
				200	200	9.4	
			100	100	300	8.8	
				200	350	10.3	
				100	120	8.5	
				200	150	10.6	
	10	60	100	150	7.3		
			200	180	8.8		
			100	200	7.5		
		80	100	250	9.4		
			200	300	10.6		
			100	450	5.9		
	12	60	100	150	8.9		
			200	100	5.9		
			150	150	8.9		
		80	100	300	9.4		
			200	300	9.4		
			100	500	5.9		
100	100	300	9.4				
	200	300	5.9				
	150	500	9.8				

- Feature**
- Employs a connection with heat-generating wire and lead wire in the sheath.
 - As the nickel pins are in the sheath, the heater is more resistant against moving and bending than the conventional heaters such as MCHK.
 - Do not let the heaters run idle in the atmosphere. If the heat generating part of the heater is operated out of the heated objects, the wire may break or ignite due to abnormal heating.
 - Keep the temperature around the lead wire exit at 220°C or less.
 - Do not pull or bend it forcibly.
- Ordering Example: **Part Number** - L - V - W
MCHKD8 - 60 - V100 - W100
- Days to Ship [Configure Online](#)
- Price [Configure Online](#)

Example

More suitable for moving applications than the conventional heaters such as MCHK.
Do not pull it forcibly.

More resistant against bending and less prone to breakage than the conventional heaters such as MCHK.
Avoid repeatedly and forcibly pulling on it although it is resistant against bending.