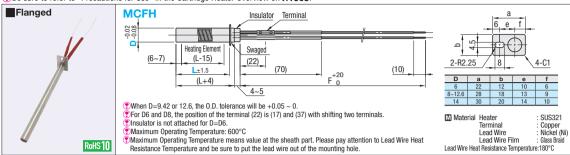
Cartridge Heaters

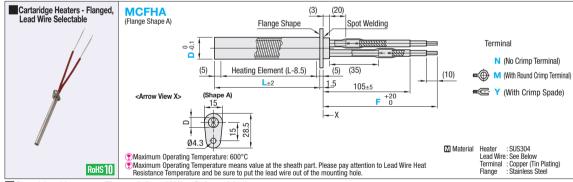
Flanged / Flanged, Lead Wire Selectable

PBe sure to refer to "Precautions for Use" in the Cartridge Heater Overview on P.1605.



Flanged Part Numbe 50~250 9.42 (3/8 inch) 2≤W/cm²≤15 • W/cm²= W/{Dπ(L-15)/100} Calculate with the electrical ower density of heat-generating part, not with the overall length 12 126 (1/2 inch)

Precautions for Use • Cartridge heater with a flange mounted on the end section. The heater can be easily secured with M4 bolts. Do not let the heaters run idle in the atmosphere. If the heater is used with some or the whole of the Prevent the Cartridge Heater from falling off from the device. heating element projected from the heated objects, the wire may break or ignite due to abnormal heating.



Į	Cartridge Heaters - Flanged, Lead Wire Selectable													
Part Number			L	V (Voltage)	W (Electric Power)	F (Lead W	ire Length)	Terminal	Electrical Power Density					
	Type	D	1mm Increment	Selection	10W Increment	Lead Wire Type	10mm Increment	Terminai	(W/cm²)					
		8	50~400	100	50~ 600			M						
MCFHA			30~400	200	50~1200	В			2≤W/cm²≤15					
	MCEHA			100	50~ 600	G	100~1000	I N	®W/cm²=W/{Dπ(L-8.5)/100}					
	10	50~600	200	50~1200	T	100~1000	I W	Calculate with the electrical power density						
			30~000	100	50~ 800	M		'	of heat-generating part, not with the overall length					

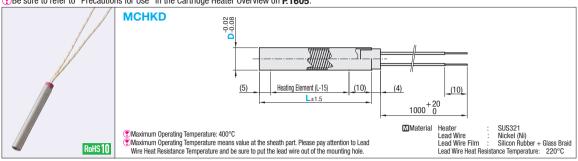
				50~60	no L	200	50~ 1200				l v	- 1	Calculate with the
			12	30~00	,,,	100	50~ 800		M		l '	l (of heat-generating part
			12			200	50~1600					,	
_ =		e of Lead Wire							Туре	of Terminal			
S	Symbol	Type of	Lead Wire		Heat Resistance Temperature		Features	S	Symbol	Type of Ter	minal	1	Nominal Screw
	В	Tin Plated Annealed Copper Fiber	Glass Braided	Nire	180°C	General Use			N	No Crimp Terminal			-
	G	Silicon Rubber + Tin Plated Anne	aled Copper Wir	e	180°C	For chemical a	and water resistant items		M	Crimp Terminal - Round			M4
	Т	Teflon + Nickel Plated Anneaed C	opper Wire		260°C	For chemical, v	vater and weather resistant iten	18	Υ	Crimp Terminal - Y-Shap	ed		M4
	М	Mica Polyimide-Wound Silica + N	lickel Coated Co	pper Wire	400°C	For heat resist	tant items						

	2	Heater Body Price											Additional Lead Wire Price (Body Price +) Additional Terminal Price (Body Price +)						lody Price +)
	D	L50~100	L10	01~20	0	L201~300			L301~400		L401~500	L501~600	В	G	T	M	N	M	Y
	8							П			-	-							
	10							П											
	12																		
13		mple Nu	Part mber FHA12	-	L 300] - [-	V V100	-	W W350	J	F Lead Wire Lead Wire Type M 10	egth - Terminal	Do not I element	projected from to temperature are	ne heated objects ound the flange at	the wire may bre	ak or ignite due t	me or the whole o o abnormal heatin	of the heating lg.

Cartridge Heaters

Flex-Resistant

Be sure to refer to "Precautions for Use" in the Cartridge Heater Overview on P.1605.



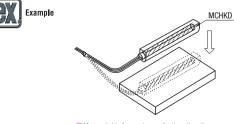
Elex Pecietoni

Part N	Part Number		V	w	Electrical Power	Unit Price
Туре	D	L	(Voltage)	(Electric Power)	Density (W/cm²)	Unit Price
			100	100	8.8	
		60	100	120	10.6	
		60	100 8.8			
	L		200	120	10.6	
	8	80	100	150	9.2	
	°	80	200	130	5.2	
		100	100	200	9.4	
		100	200	200	9.4	
	Γ	150	100	300	8.8	
		150	200	350	10.3	
		60	100	120	8.5	
		90	200	150	10.6	
		80	100	150	7.3	
	L	00	200	180	8.8	
	10	100	100	200	7.5	
MCHKD			200	250	9.4	
_		150	100	300	7.1	
		130	200	450	10.6	
			400	100	5.9	
		00	100	150	8.9	
		60		100	5.9	
			200	150	8.9	
		00	100	050	10.0	
	12	80	200	250	10.2	
	12	400	100	300	9.4	
		100	200	300	9.4	
			400	300	5.9	
		450	100	500	9.8	
		150		300	5.9	
	 		200	500	9.8	

Features

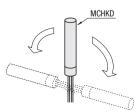
- Employs a connection between the heating element and lead wire in the sheath
- As the nickel pins are in the sheath, the heater is more resistant against moving and bending than the conventional heaters such as
- Do not let the heaters run idle in the atmosphere. If the heater is used with some or the whole of the heating element projected from the heated objects, the wire may break or ignite due to abnormal heating. Tkeep the temperature around the lead wire exit at 220°C or less.
- Do not pull or bend it forcibly.





- 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.