Cartridge Heaters Stranded Wire

(3) (20) **MCHZ** (No Flange) Terminal -(10) N (No Crimp Terminal) (35) With Round Crimp Terminal) (5) (5) Heating Element (L-10) 105+5 (With Crimp Spade) +2 F +20 (Shape A) (Shape B) (3) MCHZA 15 15 Spot Welding Flange Shape (Flange Shape A) **MCHZB** Material 7 7 (Flange Shape B) 5 Heater SUS304 ć 5 8 8 Lead Wire : See Below (5) Heating Element (L-8.5) (5) Ø4.3 Terminal : Copper (Tin Plating) (R2.5) L+2 1.5 Flange : Stainless Steel Maximum Operating Temperature: 600°C RoHS10 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. Stranded Wire Part Number L V (Voltage) W (Electric Power) F (Lead Wire Length) Terminal Electrical Power Density (W/cm²) D 1mm Increment Selection 10W Increment Lead Wire Type 10mm Increment Type 50~ 600 100 8 50~400 200 50~1200 $2 \le W/cm^2 \le 15$ 100 50~ 600 в **MCHZ** 10 Ν ⑦W/cm²=W/{Dπ(L-10)*/100} 200 50~1200 G 100~1000 MCHZA Μ * For Flanged Type (L-8.5) 50~ 800 100 т Calculate with the electrical power density of MCHZB 12 50~600 v 200 50~1600 Μ heat-generating part, not with the overall length. 100 50~ 800 *14 * D:14 is for MCHZ only 200 100~1600 Type of Lead Wire Type of Terminal Type of Terminal Symbol Selection Heat istance Temperab Features Symbol Nominal Screw В Tin Plated Annealed Copper Fiber Glass Braided Wire 180°C General Use Ν No Crimp Terminal Crimp Terminal - Round Silicon Rubber + Tin Plated Annealed Copper Wire Μ G 180°C For chemical and water resistant items M4 Teflon + Nickel Plated Anneaed Copper Wire Crimp Terminal - Y-Shaped т 260°C For chemical, water and weather resistant items Y M4 Μ Mica Polyimide-Wound Silica + Nickel Coated Copper Wire 400°C For heat resistant items F Lead Wire Ordering Part L ν w Terminal Example Number Lead Wire Type Length MCHZ12 170 -V200 -W200 R 1000 M

Be sure to refer to "Precautions for Use" in the Cartridge Heater Overview on P1605.

Part Number		Heater Body Price						Flanged Type Additional Price (Body Price +)		Additional Lead Wire Price (Body Price +)				Additional Terminal Price (Body Price +)		
Туре	D	L50~100	L101~200	L201~300	L301~400	L401~500	L501~600	Shape A	Shape B	B	G	Т	Μ	N	Μ	Υ
MCHZ MCHZA MCHZB * D:14 is for MCHZ only	8					-	-									
	10															
	12															
	14															

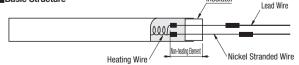
Features of the Cartridge Heater - Stranded Wire

The wires are less prone to breakage.

• The cartridge heater (break resistant internal connection type) employs a connection with heat-generating wire and

nickel stranded wire in the sheath and a connection with nickel stranded wire and lead wire outside the sheath · As the nickel pins are not exposed, the heater is more resistant against bending.

Basic Structure Insulator



Precautions for Use

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. Do not repeatedly bend the connection part between the nickel stranded wire and the lead wire. (Do not bend repeatedly.)

Do not pull the connection part between the nickel stranded wire and the lead wire. (Forcibly pulling on it could result in breakage.)

Keep the temperature around the lead wire exit at 130°C or less

Keep the temperature as
Do not bend repeatedly.

When bending the wire, be careful not to expose the stranded wire. Do not apply any load to the insulator.

