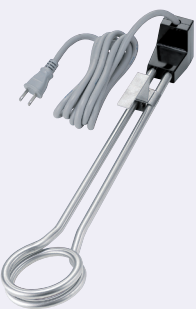
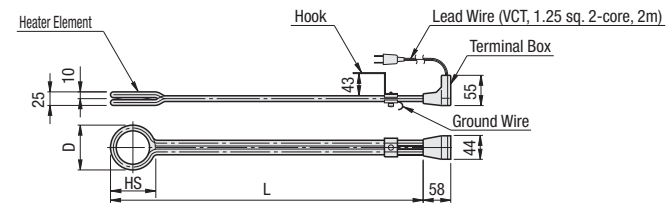


# Cord Heaters for Liquid Heating


CAD Data Folder Name: Heaters



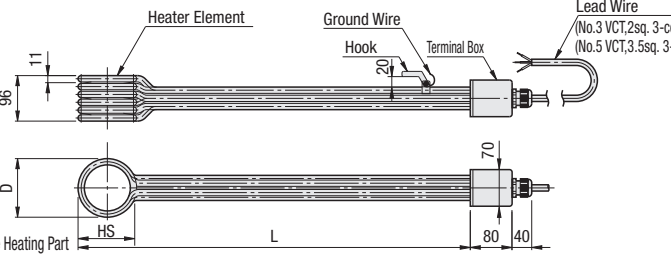
**MSHNN**  
(No.1) Single-Phase



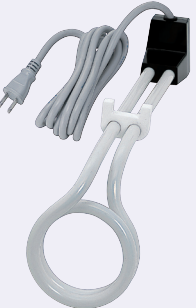
Heater Element, Hook, Lead Wire (VCT, 1.25 sq. 2-core, 2m), Terminal Box, Ground Wire, HS, L, D, 25, 10, 43, 53, 44, 58



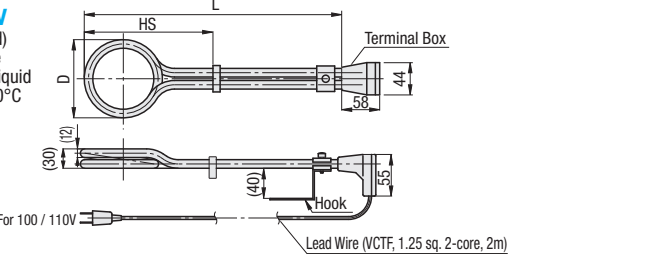
**MSHNTW**  
(Teflon Coated) Single-Phase  
Max. Operating Liquid Temperature: 80°C



Heater Element, Ground Wire, Hook, Terminal Box, Lead Wire (No.3 VCT, 2sq. 3-core, 2m) (No.5 VCT, 3.5sq. 3-core, 2m), HS, L, D, 11, 0.6, 70, 80, 40



**MSHNTL**  
(Teflon Coated) Single-Phase  
Max. Operating Liquid Temperature: 80°C



Heater Element, Hook, Terminal Box, Lead Wire (VCTF, 1.25 sq. 2-core, 2m), HS, L, D, 12, 30, 40, 58, 44

Type	Element	Support	Hook	Terminal Box
MSHNN	Copper	SUS304	SUS304	Phenol Resin
MSHNTW	(Nickel Plating)	Fluoro Resin (PTFE)	SUS304	ABS Resin
MSHNTL	(Nickel Plating)	Fluoro Resin (PTFE)	SUS304	ABS Resin

Part Number Type	No.	V (Voltage)	L	W (Electric Power)	HS	D	Unit Price
MSHNN	1	100	600	1000	86	85	9,000
	3	200	600	3000	87	87	25,840
	5	200	750	5000	112	112	28,160
MSHNTW	0.5	†100/110	280	420/500	140	85	32,800
	1	†100/110	340	830/1000	220	145	32,800
MSHNTL	0.5	†100/110	290	420/500	80	85	38,500
	1	†100/110	340	830/1000	100	145	38,500

† Those † marked can be used for 100V and 110V.

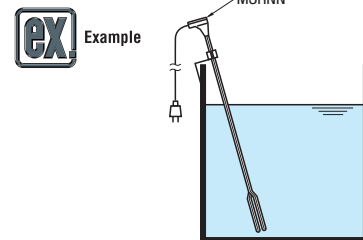
**Order Example** Part Number: **MSHNN3** / **MSHNTL0.5**

**Days to Ship** 5 Days Express B ¥500/piece P.92

**Volume Discount Rate** (Round down to the nearest one yen.) P.91

Quantity Rate	1 Price List	2~4 5%
1	Price List	5%

For orders larger than indicated values, please request for quotation.

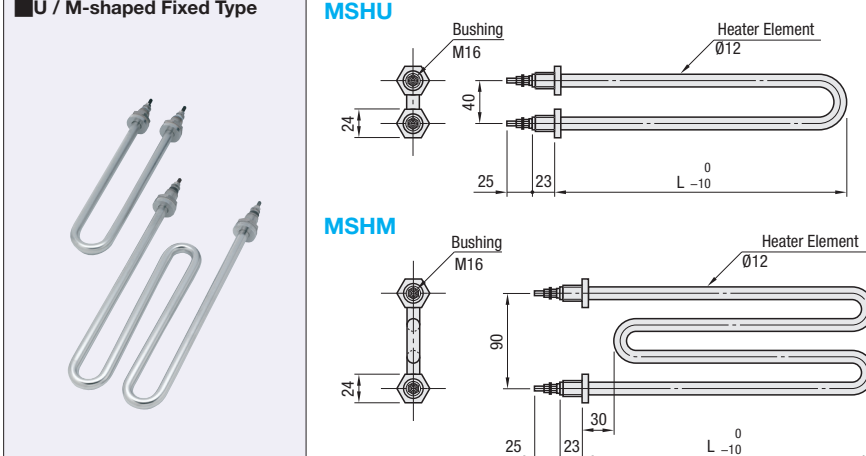


# Sheathed Heaters for Liquid Heating

-U, M-shaped Fixed Type / Straight One Terminal Type-

CAD Data Folder Name: Heaters

**U / M-shaped Fixed Type**



**MSHU**  
Bushing M16, Heater Element Ø12, L, W, 24, 40, 25, 23, 0, L-10

**MSHM**  
Bushing M16, Heater Element Ø12, L, W, 24, 90, 25, 23, 30, 0, L-10

Element : SUS316L  
Bushings : SUS304  
Packing Flat Washers : SUS304  
Nut : SUS304

Part Number Type	No.	V (Voltage) Selection	L	W (Electric Power)	Electric Power Density (W/cm <sup>2</sup> )	Unit Price
MSHU	0.5	100	150	500	5.5	4,450
	1	200	200	1000	8.0	4,450
	1.5	200	300	1500	7.5	4,450
	2	200	400	2000	7.0	4,730
MSHM	0.5	100	100	500	5.0	4,590
	1	200	150	1000	5.5	5,260
	1.5	200	200	1500	6.0	5,260
	2	200	250	2000	6.0	5,260
	2	200	250	2000	6.0	5,260

**Order Example** Part Number: **MSHU1.5** - **V200**

**Days to Ship** 5 Days Express B ¥500/piece P.92


A flat charge of ¥1,350 for 3 or more identical pieces.

**Price** Volume Discount Rate (Round down to the nearest one yen.) P.91

Quantity Rate	1 Price List	2~4 5%
1	Price List	5%

For orders larger than indicated values, please request for quotation.

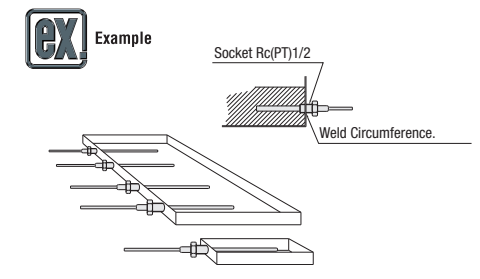
**Straight One Terminal Type**



**MSHSL** (Oil Heating)  
Welded in Argon Shield (Circumference)  
R(PT)1/2  
Width Across Flats 24  
Heat-Generating Part, L, 10, 30, 20, 7, (58), 1000<sup>+20</sup><sub>0</sub>

Element : SUS316L (For Water) / SUS321 (For Oil)  
Bushings : SUS304  
Lead Wire Protection Cap : Silicon Rubber (Heat Resistant Temperature: 180°C)  
Lead Wire : Glass Braid Silicon Coated Wire (Heat Resistance Temperature: 180°C)

Part Number Type	No.	V (Voltage) Selection	L	W (Electric Power)	Electric Power Density (W/cm <sup>2</sup> )	Unit Price Qty. 1~4
MSHSW (Water Heating)	0.5	100	230	500	7.0	11,000
	0.75	200				11,000
	1	200				12,000
MSHSL (Oil Heating)	0.35	100	410	350	2.5	12,800
	0.5	200				14,700
	0.5	200				11,000



**Order Example** Part Number: **MSHSW1.5** - **V200**

**Days to Ship** 8 Days Express C ¥500/piece P.92

A flat charge of ¥1,350 for 3 or more identical pieces.

**Price** Volume Discount Rate (Round down to the nearest one yen.) P.91

Quantity Rate	1~4 Price List	5~10 5%	11~20 10%
1~4	Price List	5%	10%

For orders larger than indicated values, please request for quotation.