

Mounting accessories for flexible silicone heaters




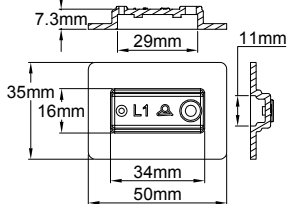


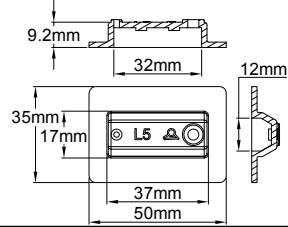


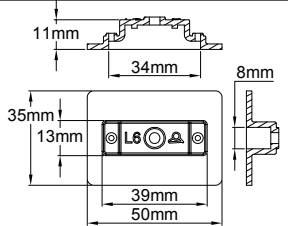


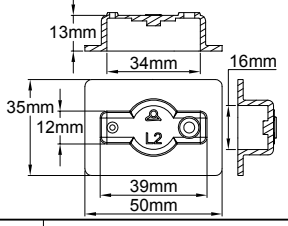


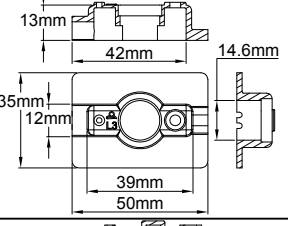


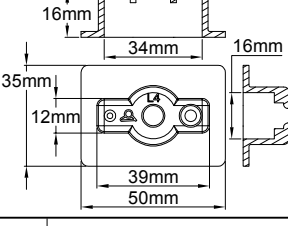


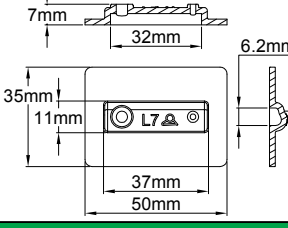



Silicone boots for mounting **fixed setting limiters or thermostats** on flexible silicone heaters. Assembly by bonding or vulcanization.

Type

9BFL

These boots comprise a degassing orifice and a «funnel» orifice for filling the silicone resin, which are cut after curing.

Type	Dimensions	Compatible devices	Features	Part number
		 UJW	Minimum band width: 35mm Connection: internal Silicone resin filling: yes	9BFL1
		 4A	Minimum band width: 35mm Connection: internal Silicone resin filling: yes	9BFL5
		 4T	Minimum band width: 35mm Connection: internal Silicone resin filling : no	9BFL6
		 4903	Minimum band width: 35mm Connection: internal Silicone resin filling: yes	9BFL2
		 4903	Minimum band width: 35mm Connection: external by 2 wires Silicone resin filling: yes	9BFL3
		 4505	Minimum band width: 35mm Connection: internal Silicone resin filling: partial	9BFL4
		 5MA3	Minimum band width: 35mm Connection: internal Silicone resin filling: yes	9BFL7

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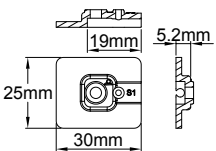

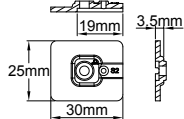

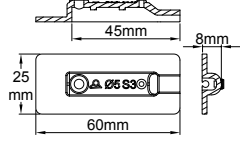

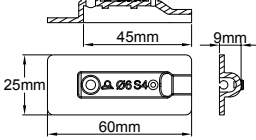

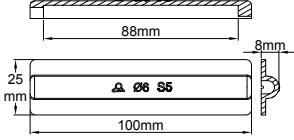

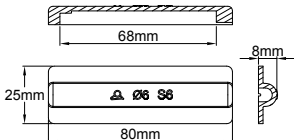

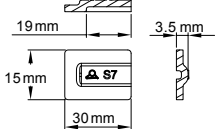
Cat25-2-9-3

Silicone boots for mounting of **temperature sensors and thermostats bulbs** on flexible silicone heaters surface. Assembly by bonding or vulcanization.

Type

9BFS

Some of these boots comprise a degassing orifice and a «funnel» orifice for filling the silicone resin, which are cut after curing.

Type	Dimensions	Compatible devices	Features	Part number
		Flat RTD	Minimum band width: 25mm Connection: external sensor cable Silicone resin filling: yes	9BFS1
		Naked welding thermocouple or glass bead thermistor	Minimum band width: 25mm Connection: external sensor cable Silicone resin filling: yes	9BFS2
		Temperature sensor dia. 5mm, 30mm maximum length	Minimum band width: 25mm Connection: external sensor cable Silicone resin filling: yes	9BFS3
		Temperature sensor dia. 6mm, 30mm maximum length	Minimum band width: 25mm Connection: external sensor cable Silicone resin filling: yes	9BFS4
		Temperature sensor dia. 6mm or thermostat bulb dia. 6mm, maximum length 88mm	Minimum band width: 25mm Connection: external sensor cable or capillary Silicone resin filling: possible	9BFS5
		Temperature sensor dia. 6mm or thermostat bulb dia. 6mm, maximum length 68mm	Minimum band width: 25mm Connection: external sensor cable or capillary Silicone resin filling: possible	9BFS6
		Naked welding thermocouple or glass bead thermistor	Minimum band width: 15mm Connection: external sensor cable or capillary Silicone resin filling: possible	9BFS7

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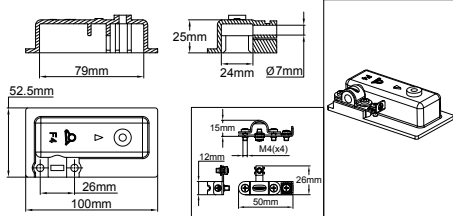


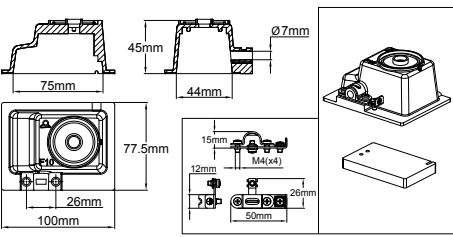


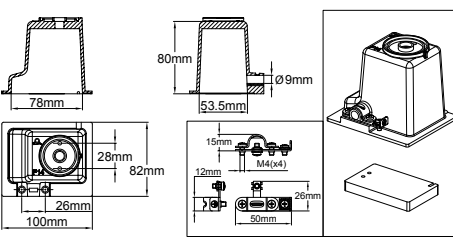



Silicone enclosures for mounting of **adjustable thermostats** on flexible silicone heaters surface. Assembly by bonding or vulcanization.

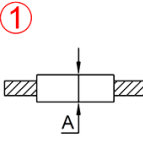
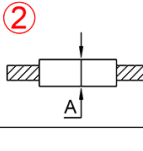
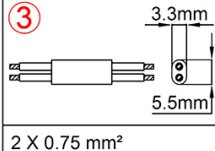
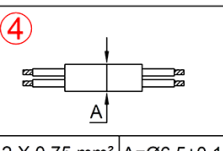
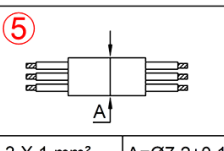
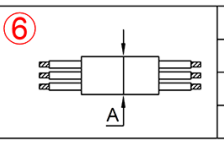
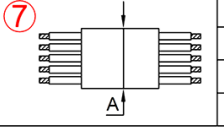
Type

9BFF

These enclosures include a stainless-steel removable locking device for the power cable and an internal and external grounding terminal. Some models also include a thick insulating silicone foam pad to thermally insulate the thermostat body from the temperature of the heater. The models for bulb and capillary thermostat have a lateral outlet for the capillary. The flexibility of the silicone makes it possible to use cables with a diameter slightly greater (up to 15%) than that of the passage opening.

Type	Dimensions	Compatible devices	Features	Part number
		 IB	Minimum band width: 100mm Connection: external cable Silicone resin filling: no	9BFF4
		 8G	Minimum band width: 100mm Connection: external cable and external bulb and capillary Silicone resin filling: no	9BFF10
		 8C	Minimum band width: 100mm Connection: external cable and external bulb and capillary Silicone resin filling: no	9BFF14

Indicative table of cable and wire diameters

	<table border="1"> <tr><td>AWG22</td><td>A=Ø1.4±0.1</td></tr> <tr><td>AWG20</td><td>A=Ø1.6±0.1</td></tr> <tr><td>AWG18</td><td>A=Ø1.9±0.1</td></tr> <tr><td>AWG16</td><td>A=Ø2.2±0.1</td></tr> <tr><td>AWG15</td><td>A=Ø2.3±0.1</td></tr> </table>	AWG22	A=Ø1.4±0.1	AWG20	A=Ø1.6±0.1	AWG18	A=Ø1.9±0.1	AWG16	A=Ø2.2±0.1	AWG15	A=Ø2.3±0.1		<table border="1"> <tr><td>0.5 mm²</td><td>A=Ø1.5±0.1</td></tr> <tr><td>0.75 mm²</td><td>A=Ø1.8±0.1</td></tr> <tr><td>1 mm²</td><td>A=Ø1.9±0.1</td></tr> <tr><td>1.5 mm²</td><td>A=Ø2.2±0.1</td></tr> </table>	0.5 mm ²	A=Ø1.5±0.1	0.75 mm ²	A=Ø1.8±0.1	1 mm ²	A=Ø1.9±0.1	1.5 mm ²	A=Ø2.2±0.1		<table border="1"> <tr><td>2 X 0.75 mm²</td><td>A=Ø3.3±0.1</td></tr> <tr><td></td><td>A=Ø5.5±0.1</td></tr> </table>	2 X 0.75 mm ²	A=Ø3.3±0.1		A=Ø5.5±0.1
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2 X 0.75 mm ²	A=Ø3.3±0.1																										
	A=Ø5.5±0.1																										
	<table border="1"> <tr><td>2 X 0.75 mm²</td><td>A=Ø6.5±0.1</td></tr> <tr><td>2 X 1 mm²</td><td>A=Ø6.8±0.1</td></tr> </table>	2 X 0.75 mm ²	A=Ø6.5±0.1	2 X 1 mm ²	A=Ø6.8±0.1		<table border="1"> <tr><td>3 X 1 mm²</td><td>A=Ø7.2±0.1</td></tr> <tr><td>3 X 1.5 mm²</td><td>A=Ø8.4±0.1</td></tr> </table>	3 X 1 mm ²	A=Ø7.2±0.1	3 X 1.5 mm ²	A=Ø8.4±0.1		<table border="1"> <tr><td>3 X 1.5 mm²</td><td>A=Ø9.1±0.2</td></tr> <tr><td>3 X 1 mm²</td><td>A=Ø7.4±0.2</td></tr> <tr><td>3 X AWG18</td><td>A=Ø7.8±0.2</td></tr> <tr><td>3 X AWG16</td><td>A=Ø8.4±0.2</td></tr> </table>	3 X 1.5 mm ²	A=Ø9.1±0.2	3 X 1 mm ²	A=Ø7.4±0.2	3 X AWG18	A=Ø7.8±0.2	3 X AWG16	A=Ø8.4±0.2						
2 X 0.75 mm ²	A=Ø6.5±0.1																										
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3 X AWG18	A=Ø7.8±0.2																										
3 X AWG16	A=Ø8.4±0.2																										
	<table border="1"> <tr><td>5 X 1.5 mm²</td><td>A=Ø11.1±0.2</td></tr> <tr><td>5 X 1 mm²</td><td>A=Ø9.0±0.2</td></tr> <tr><td>5 X AWG18</td><td>A=Ø9.3±0.2</td></tr> <tr><td>5 X AWG16</td><td>A=Ø10.1±0.2</td></tr> </table>	5 X 1.5 mm ²	A=Ø11.1±0.2	5 X 1 mm ²	A=Ø9.0±0.2	5 X AWG18	A=Ø9.3±0.2	5 X AWG16	A=Ø10.1±0.2																		
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5 X 1 mm ²	A=Ø9.0±0.2																										
5 X AWG18	A=Ø9.3±0.2																										
5 X AWG16	A=Ø10.1±0.2																										

1: Round wires FEP insulation, 300V, dimensions USA;
 2: Round wires FEP insulation, 300V, European dimensions;
 3: Flat cable PVC insulation, 300V, European dimensions;
 4: Round cables 2 conductors PVC insulation, 300V, European dimensions;
 5: Round cables 3 conductors PVC insulation, 300V, European dimensions;
 6: Round cables 3 conductors rubber insulation 300V, European and USA dimensions.
 7: Round cables 5 conductors rubber insulation 300V, European and USA dimensions.

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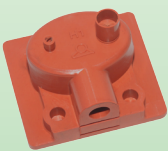
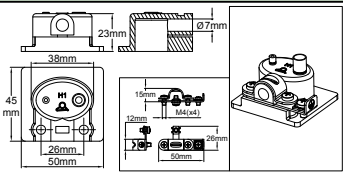

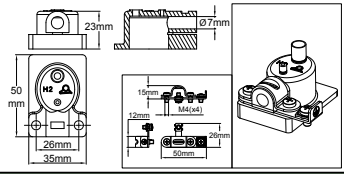
Cat25-2-9-5

Silicone boots for **cable outputs** on flexible silicone heaters surface. Assembly by bonding or vulcanization.

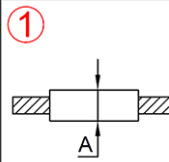
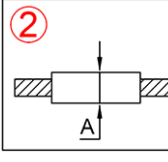
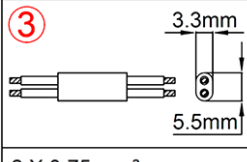
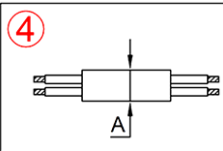
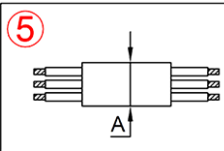
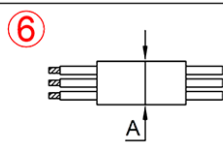
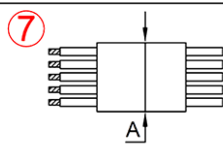
Type

9BFH

These enclosures include a stainless-steel removable locking device for the power cable and an internal and external grounding terminal. The flexibility of the silicone makes it possible to use cables with a diameter slightly greater (up to 15%) than that of the passage opening.

Type	Dimensions	Compatible devices	Features	Part number
		Band heaters with 50mm minimum width	Minimum band width: 50mm Connection: external cable Silicone resin filling: yes	9BFH1
		Band heaters with 35mm minimum width	Minimum band width: 35mm Connection: external cable Silicone resin filling: no	9BFH2

Indicative table of cable and wire diameters

	AWG22	A=Ø1.4±0.1		0.5 mm ²	A=Ø1.5±0.1				
	AWG20	A=Ø1.6±0.1		0.75 mm ²	A=Ø1.8±0.1				
	AWG18	A=Ø1.9±0.1		1 mm ²	A=Ø1.9±0.1				
	AWG16	A=Ø2.2±0.1		1.5 mm ²	A=Ø2.2±0.1				
	AWG15	A=Ø2.3±0.1		2 X 0.75 mm ²					
	2 X 0.75 mm ²	A=Ø6.5±0.1				3 X 1.5 mm ² A=Ø9.1±0.2 3 X 1 mm ² A=Ø7.4±0.2 3 X AWG18 A=Ø7.8±0.2 3 X AWG16 A=Ø8.4±0.2			
	2 X 1 mm ²	A=Ø6.8±0.1					3 X 1 mm ²	A=Ø7.2±0.1	
			3 X 1.5 mm ²	A=Ø8.4±0.1			5 X 1.5 mm ² A=Ø11.1±0.2 5 X 1 mm ² A=Ø9.0±0.2 5 X AWG18 A=Ø9.3±0.2 5 X AWG16 A=Ø10.1±0.2		
<p> 1: Round wires FEP insulation, 300V, dimensions USA; 2: Round wires FEP insulation, 300V, European dimensions; 3: Flat cable PVC insulation, 300V, European dimensions; 4: Round cables 2 conductors PVC insulation, 300V, European dimensions; 5: Round cables 3 conductors PVC insulation, 300V, European dimensions; 6: Round cables 3 conductors rubber insulation 300V, European and USA dimensions. 7: Round cables 5 conductors rubber insulation 300V, European and USA dimensions. </p>									

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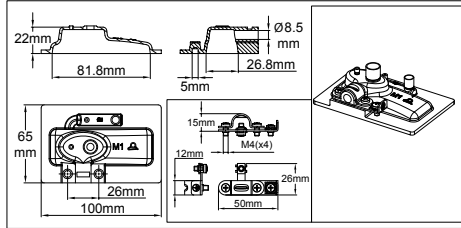

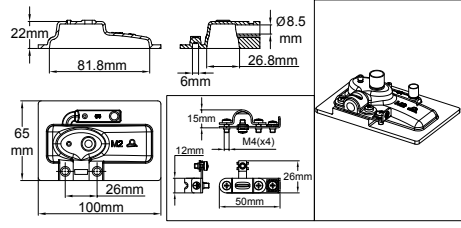

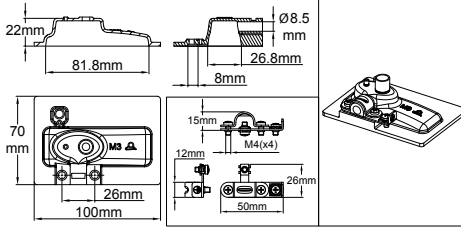


Silicone boots for **cable outputs and temperature sensor** on flexible silicone heaters surface. Assembly by bonding or vulcanization.

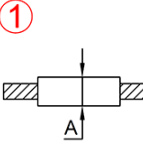
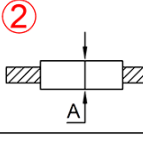
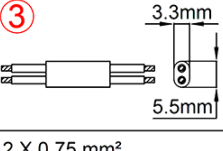
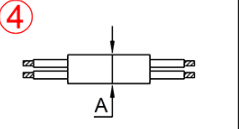
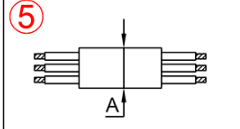
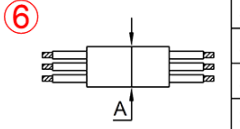
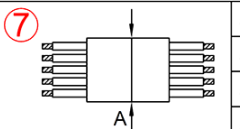
Type

9BFM

These enclosures include a stainless-steel removable locking device for the power cable and an internal and external grounding terminal. The flexibility of the silicone makes it possible to use cables with a diameter slightly greater (up to 15%) than that of the passage opening. They also comprise a degassing orifice and a «funnel» orifice for filling the silicone resin, which are cut after curing.

Type	Dimensions	Compatible devices	Features	Part number
		Dia 5mm temperature sensors with 30mm maximum probe length	Minimum band width: 100mm Connection: 5 conductor external cable Silicone resin filling: yes	9BFM1
		Dia. 6mm temperature sensors with 30mm maximum probe length	Minimum band width: 100mm Connection: 5 conductor external cable Silicone resin filling: yes	9BFM2
		Naked welding thermocouples, glass bead NTC, flat chip Pt100	Minimum band width: 100mm Connection: 5 conductor external cable Silicone resin filling: yes	9BFM3

Indicative table of cable and wire diameters

	AWG22	A=Ø1.4±0.1		0.5 mm ²	A=Ø1.5±0.1	
	AWG20	A=Ø1.6±0.1		0.75 mm ²	A=Ø1.8±0.1	
	AWG18	A=Ø1.9±0.1		1 mm ²	A=Ø1.9±0.1	
	AWG16	A=Ø2.2±0.1		1.5 mm ²	A=Ø2.2±0.1	
	AWG15	A=Ø2.3±0.1		2 X 0.75 mm ²		
	2 X 0.75 mm ²	A=Ø6.5±0.1			3 X 1.5 mm ²	A=Ø9.1±0.2
	2 X 1 mm ²	A=Ø6.8±0.1			3 X 1 mm ²	A=Ø7.2±0.1
			3 X 1.5 mm ²	A=Ø8.4±0.1	3 X AWG18	A=Ø7.8±0.2
					3 X AWG16	A=Ø8.4±0.2
	5 X 1.5 mm ²	A=Ø11.1±0.2		5 X 1.5 mm ²	A=Ø11.1±0.2	
	5 X 1 mm ²	A=Ø9.0±0.2		5 X 1 mm ²	A=Ø9.0±0.2	
	5 X AWG18	A=Ø9.3±0.2		5 X AWG18	A=Ø9.3±0.2	
	5 X AWG16	A=Ø10.1±0.2		5 X AWG16	A=Ø10.1±0.2	

1: Round wires FEP insulation, 300V, dimensions USA;
2: Round wires FEP insulation, 300V, European dimensions;
3: Flat cable PVC insulation, 300V, European dimensions;
4: Round cables 2 conductors PVC insulation, 300V, European dimensions;
5: Round cables 3 conductors PVC insulation, 300V, European dimensions;
6: Round cables 3 conductors rubber insulation 300V, European and USA dimensions.
7: Round cables 5 conductors rubber insulation 300V, European and USA dimensions.

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice





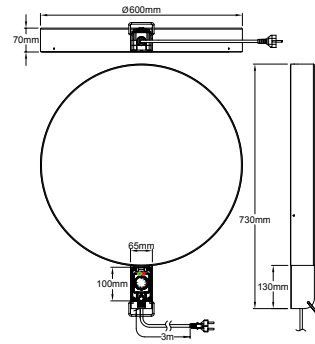
Various accessories for flexible silicone heaters





Base heater for 55 gallons metal drum

Heating surface	Power	Enclosure	Ingress protection	Temperature control	Type
Dia. 560mm	1000W	304 Stainless steel	IP69K	10-150°C thermostat	9V4



Main Features

These heaters are used to heat the 200-220 liters (55 US gallons, 45 Imperial Gallons) drums and their lower size versions. Completely made of 304 stainless steel, 1.2 and 2mm thick, resistant to high pressure hot water jet washing, **they can withstand industrial environment, food and chemical applications**. They are not usable in explosive areas. The drum simply needs to be put on these pedestals. The surface load of the heating element is limited to a safe value of 0.5W/cm² and the surface temperature is limited to 150°C. They can be used alone in reheating, with or without insulating jacket, or in addition to jacket heaters or heating belts, and in the latter case, they greatly reduce the heating time. As for all heaters for containers and tanks, it is mandatory to keep a connection to atmospheric pressure to avoid an internal overpressure which could burst the barrel. They come standard with 3 x 1mm² rubber insulated cable, for industrial applications.

Heating surface: 3.5mm thick silicone flat element vulcanized under the upper surface and covering the entire 600mm diameter surface. This technique provides a uniform temperature.

Base: 304 stainless steel, 600mm diameter, height 70mm, TIG welded.

Control box: 56 mm x 63 mm, height 100 mm in PA66 reinforced fiberglass, with waterproof and sealable window. This control box is protected from violent shocks by a stainless-steel envelope. It has a handle for easy handling.

Ingress protection class: IP69K

Temperature control: By bulb and capillary thermostat with 10-150°C adjustment range. Other temperature ranges 4-40°C, (39-104°F) 30-90°C (86-,194°F) 30-110°C (86-230°F) are available in option. Access to the thermostat setting is possible opening the window.

Cable gland: M20 in PA66.

Connection cable: Rubber insulated, for industrial environments, 3 x 1mm², length 3m, with Euro plug or UL plug.

Surface load: 0.5 W/cm²

Supply voltage: 230V (110V on request)

Standard equipment: Green and red pilot lights, indicating power on and operation of the heater

Accessories: Insulating Jackets

Standards: Built in accordance with applicable European standards (CE marking)



Instructions for use: Observe the instruction manual enclosed with the device.

Main part numbers (°C printed knob) *

With 10-150°C (50-300°F), thermostat with 3 meters cord with Euro plug	With 10-150°C (50-300°F), thermostat with 3 meters cord with UL plug
9V46004A0088C3E	9V46004A0088C3U

* °F printed knob: replace C by F in the part number.



Type	Features	Part number
	<p>Room Temperature Vulcanizing Silicone. Very fluid, fills the boots well and without bubbles. Also allows to bond flexible silicone heaters on metal walls. Comes with a special nozzle that directs the liquid silicone in the desired location without spilling. To be used on clean and degreased surfaces with isopropyl alcohol or methanol</p> <p>Color: Iron oxide red Packaging: 45 ml tube. Temperature resistance when fully vulcanized: 280°C. Vulcanization time at room temperature: 24 to 48 hours depending on thickness. Don't energize when the silicone is not completely vulcanized. Vulcanized hardness: 35 Shore A Volume resistivity: 4*10¹⁵ ohms/cm. Elongation: 150%. Breakdown voltage: 16KV/mm. Life in closed tube: 3 months. Keep in cold and dry place.</p>	<p>6YTMC2</p>
	<p>Grounding cable, 1.5m long, 1.5mm², FEP insulation, equipped with a 4mm diameter grommet for connection to the ground terminals of the silicone flexible elements, and an alligator clip at the other end, for connection to heated metal parts.</p>	<p>9A66GT1</p>

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