

## SJ Motor Leads™

SJ motor leads are designed for integration with submersible pumps and motors from select manufacturers, providing a direct, uninterrupted electrical connection between the motor and the control system. It features **thermoplastic elastomer (TPE) insulation and a TPE jacket**, ensuring **maximum durability, flexibility, and resistance to water, oil, and chemicals**, with a **105°C** rating. The sleeve and jam nut are made of stainless steel. This design eliminates the need for field splicing.

Custom lead lengths are available, subject to National Electric Code (NEC) ampacity regulations for conductors in free air or submerged environments. In certain configurations, the ground conductor may need to be removed from the plug and externally connected via a ring terminal to the pump/motor studs or a dedicated grounding lug, if present on the motor.

For precise sizing and compatibility information, it is recommended to consult with sales or technical support.

### Materials & Construction

<b>AWG:</b>	#12, #10, #8
<b>Conductor:</b>	65 STR, 105 STR, 168 STR Copper
<b>Insulation:</b>	Thermoplastic Elastomer (TPE)
<b>Overall Jacket:</b>	Thermoplastic Elastomer (TPE)
<b>Sleeve:</b>	316 Stainless Steel
<b>Jam-nut:</b>	316 Stainless Steel (if applicable)
<b>Bushing:</b>	Viton or Nitrile
<b>Potting:</b>	Epoxy (chemically resistant)

### Applications

- ◆ Industrial
- ◆ Environmental
- ◆ Mining
- ◆ Dewatering
- ◆ Landfill / Leachate
- ◆ Construction
- ◆ Oil & Gas
- ◆ Agriculture
- ◆ Wastewater

### Options

- ◆ Artesian Adder
- ◆ Strip-back
- ◆ Ground out
- ◆ COS Splice



Ex: 1004SJ—100' 12/2 w/ ground Hilo Jacketed 4" Franklin

### Dimensions

AWG (+ ground)	# of Conductors	OD (in)	Weight lb/1000'	Temp °C
12	2 / 3	0.206"x0.518" /	95 / 127	-50 - 105 / 75 wet / 60 in oil ; 600V
10	2 / 3	0.231"x0.593" /	137 / 182	
8	3	0.316"x1.009"	281	

### Motor Compatibility

Franklin	Gould's	Grundfos	Faradyne	Hitachi
All 4", 6", 8" Encapsulated Motors	<ul style="list-style-type: none"> <li>◆ All 4" Motors</li> <li>◆ 6" M-Series Motors</li> </ul>	<ul style="list-style-type: none"> <li>◆ 4" MS402 &amp; MS4000 Motors</li> <li>◆ 3" MSE3 Motors (SQE/RF3)</li> </ul> <p>*not compatible with MS4000C Motors*</p>	<ul style="list-style-type: none"> <li>◆ 4" FM-Series</li> </ul>	6" Canned Type Motors