

SOOW Motor Leads™

SOOW 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 **EPDM rubber insulation and a chlorinated polyethylene (CPE) jacket**, offering **heavy-duty flexibility, excellent resistance to oil, water, and UV exposure**, with a **90°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

AWG:	#12, #10, #8
Conductor:	65 STR, 104 STR, 133 STR Copper
Insulation:	Ethylene Propylene Diene Mono-
Overall Jacket:	Chlorinated Polyethylene (CPE)
Sleeve:	316 Stainless Steel
Jam-nut:	316 Stainless Steel (if applicable)
Bushing:	Viton or Nitrile
Potting:	Epoxy (chemically resistant)

Applications

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

Options

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



Ex: 5046-10—50' 10/3 w/ ground SOOW 6" Franklin

Dimensions

AWG (+ ground)	# of Conductors	OD (in)	Weight lb/1000'	Temp °C
12	3	0.600"	224	90 wet, dry, oil ; 600V
10	3	0.660"	299	
8	3	0.850"	485	

Motor Compatibility

Franklin	Gould's	Grundfos	Faradyne	Hitachi
All 4", 6", 8" Encapsulated Motors	<ul style="list-style-type: none"> ◆ All 4" Motors ◆ 6" M-Series Motors 	<ul style="list-style-type: none"> ◆ 4" MS402 & MS4000 Motors *not compatible with MS4000C Motors* 	<ul style="list-style-type: none"> ◆ 4" FM-Series 	6" Canned Type Motors