ESP Power Cable

The Feichun Cable product family offers a complete range of ESP power cables engineered to provide superior, reliable performance in a wide variety of well conditions

Applications

Oil, gas and water wells ranging from benign to harsh conditions including high temperature and corrosive wells

Features and Benefits

EPDM rubber insulation

- Special Feichun formula designed with high modulu s and low swell characteristics

High temperature cable

- Offers reliable operation in hot wells up to 450ºF (232ºC)

Nitrile jacket with option for EPDM

- Nitrile is very resistant to oil swelling and EPDM offers reliability in higher temperatures

Option for a continuous lead sheath extruded over the insulation

- Creates a barrier to protect the conductors against corrosive gas and shields the insulation from well fluids
- Standard galvanized armor in a wide range of thicknesses: 0.015'', 0.020", 0.025", and 0.034"
- Stainless steel armor: 0.015'' and 0.020'' thickness options
- MONEL armor: 0.015'', 0.020'', and 0.025'' thickness options
- Robust mechanical protection for insulated conductors

Solid copper conductor

- Eliminates gas migration associated with stranded and solid conductor design

A critical component of any ESP system is the electric power cable. The overall ESP system is strongly influenced by the quality and reliability of the power cable and is a contributing factor towards achieving the maximum ESP run life performance.

Feichun is one of few artificial lift equipment providers manufacturing the complete ESP system including power cable. The total facilities capacity is approximately 10,000 kilometers (over 6,200 miles) of power and motor lead extension (MLE) cables annually.

Feichun power cable provides a comprehensive range of surface and downhole cables for low temperature, benign well conditions to high temperature, high GOR applications.

With extensive application experience and unrivalled in-house capability, we can vary insulation, protection barriers, or armor to construct cable to meet any downhole condition or commercial challenge.

Our state-of-the-art cable manufacturing facility is fully ISO 9001 certified. The 120+ employees are a highly-qualified group of specialists with expertise in all requisite areas of cable design, manufacturing and application.

The power cables are provided in both round and flat profiles. All are available in either 4 kV or 5 kV voltage rating.



Power Cables and MLE Specifications

	SL-212 (PN)		SL-285 (EN)		SL-450 (EE)		SL-450 (E-Lead)		MLE-450 (E-Lead)
	Flat	Round	Flat	Round	Flat	Round	Flat	Round	Flat
Max. operating temperature	212°F (100°C)		285°F (140°C)		400°F (204°C)		450°F (232°C)		450°F (232°C)
Conductors	• solid • stranded compacted		• solid • stranded compacted		• solid • stranded compacted		• solid • stranded compacted		• solid
Insulation	PP		EPDM		EPDM		EPDM		polyimide + EPDM
Sheath	-		-		-		lead		lead
Barrier tape	PTFE		PTFE		PTFE		-		-
Covering	PES		PES		PES		PES		PES
Jacket	NBR		NBR		EPDM		-	EPDM	-
Armor	- galvanized steel - stainless steel - MONEL		- galvanized steel - stainless steel - MONEL		- galvanized steel - stainless steel - MONEL		- galvanized steel - stainless steel - MONEL		- galvanized steel - stainless steel - MONEL

PP – polypropylene

EPDM – ethylene propylene diene monomer rubber

PTFE – polytetrafluoroethylene

PES – polyester

NBR – nitrile butadiene rubber

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