

TriPot Severe Service MLE

Extends ESP system run life in harsh environments

Applications

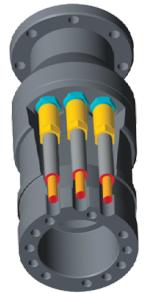
- High temperature wells
- Highly corrosive wells
- Gassy wells

Features & Benefits

- Maximizes ESP system run life
- Three plug-in potheads simplify and quicken connection at well site
- Three single-core conductors; plug-in MLE design
- Metal-to-metal seals for all connections
- All metal seals testable in the service center or well site
- Semi-con layer and conductive foil for increased insulation life
- TCM to manage the differential thermal expansion of the cable
- 6 1/4-in. (16 cm) motor head OD compatible with 7 5/8-in. (19 cm) and larger casings

To maximize ESP system reliability in extreme conditions, Borets offers the new TriPot* Severe Service Motor Lead Extension (MLE). It uses the unique design of three single-core conductors and metal-to-metal seals for all sealing connections to ensure performance in the most high-power-demand and run-life-critical applications.

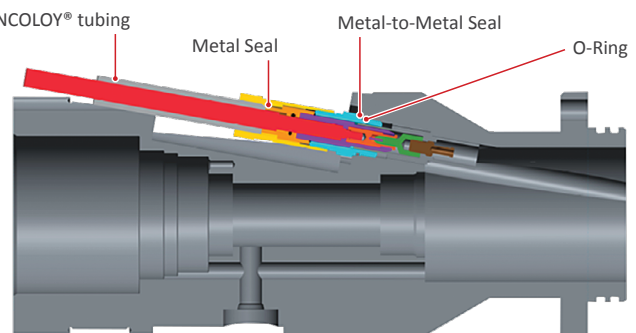
The TriPot* MLE has three individual plug-in bodies, which eliminate the possibility of a phase-to-phase short in the power cable and MLE. The only path for an electrical failure in the MLE is to ground. Each conductor has 1-inch minimum track path to ground to ensure enhanced reliability as seen with tape-in MLEs.



The MLE and power cable are well protected from gas migration. Each phase of the power cable is encased in an INCOLOY® alloy 825 tube. The INCOLOY® tube is sealed with Swagelok style ferrules to the Packer, the Thermal Compensation Module (TCM) and the MLE body. The MLE body is sealed to the motor head using Zero-Leak Gold style metal seal.

The MLE cable is manufactured with Semi-con layer and conductive foil for increased insulation life. The Semi-con and foil over the primary EPDM insulation is used to evenly distribute the electric field in the EPDM insulation and increase the life of the insulation.

The TCM is used below the packer to manage the differential thermal expansion of the cable to the INCOLOY® tubing. It allows up to 4 inches of cable expansion relative to the tubing. It also functions as a splice and can be pre-assembled to the packer and tested in the service center to reduce installation time at the well site.



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Conductor material	1 AWG solid copper or 4 AWG solid copper
Max. voltage	5,000 V
Temperature range	-40°F to 450°F (40°C to 232°C)