

Coiled Tubing ESP Cable

For the REDA Coil coiled-tubing-deployed ESP system

APPLICATIONS

- REDA Coil* coiled-tubing-deployed ESP system

BENEFITS

- Enables ESP system deployment using standard coiled tubing equipment
- Maintains isolation from well fluid chemical attacks and pressure cycles
- Eliminates use of cable protectors or bands on the tubing string
- Enables control of completion accessories with option to include additional 1/4-in or 3/8-in capillary lines, hydraulic lines, or both, within the coiled tubing

FEATURES

- 2 3/8-in HS80 or HS90 coiled tubing
- 0.175-in, 0.190-in, and 0.204-in coiled tubing wall thickness selection
- Wide range of ESP cables with various power requirements

The REDA Coil system's coiled tubing ESP cable consists of a length of coiled tubing in which an ESP power cable has been preinstalled. The cable is supported inside the coiled tubing by friction. A patented slack-management technique is used to install the cable.

Preinstalling the power cable in the coiled tubing enables the ESP system to be deployed with standard CT equipment, eliminates the need for cable protectors or bands on the tubing string, and isolates the cable from well fluid chemical attacks and pressure cycles.

The power cable and coiled tubing are connected to the top of the ESP string by the REDA Coil system's lower connector. At the surface, the coiled tubing is made up to a coiled tubing hanger that is landed in the wellhead. The ESP cable is terminated to a wellhead penetrator for connection to a surface cable.

The coiled tubing commonly used with the #2 REDA MAX* ESP electrical power cable is 2 3/8 in; other sizes of both the coiled tubing and the ESP cable are possible.

Additional hydraulic lines can be run with the ESP cable inside the coiled tubing to control other downhole completion equipment, including deepset safety valves and chemical injection valves.



REDA Coil system string with coiled tubing ESP cable.