

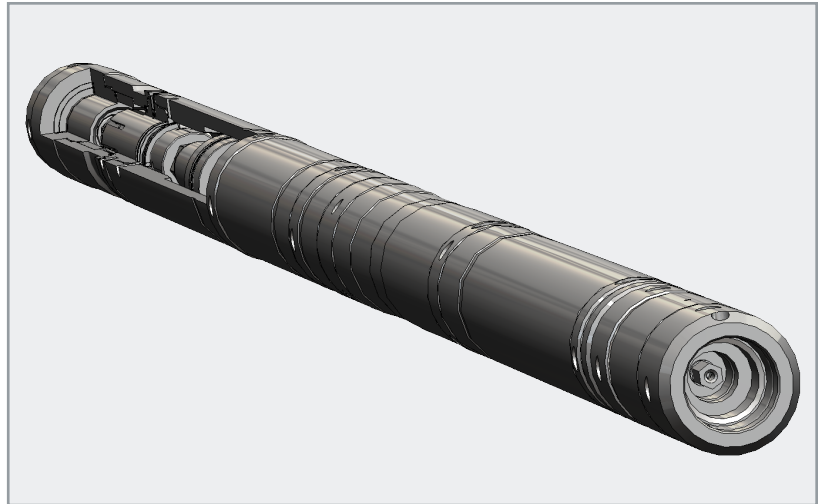
Cable Safe-Release Tool

Halliburton's Cable Safe-Release tool (CSR) provides a safe and effective way to release electric wireline from a stuck logging or perforating string without the need to conduct risky cutting operations. Because the CSR is a more reliable downhole release system, it reduces nonproductive time (NPT).

The CSR is typically placed just below the cablehead, and the tool string is run downhole in the usual manner. Under various conditions, the tool string can become stuck and must be fished. Before fishing operations can take place, the electric wireline ideally would be removed from the wellbore.

The CSR addresses challenges associated with electric wireline removal by providing a release method that is not dependent on weak-point values or the availability of electric contact for telemetry control of a release operation. In a controlled and safe manner, the CSR decouples from the stuck tool string simply by placing the sub in tension at a predetermined load for a specified period of time. The release process uses proven hydraulic time-delay technology in conjunction with electric wireline tension to cause mechanical release of the cable from the stuck tool string.

Inherent in the CSR is a preset lock that prevents the tool from beginning a release process until a specified tension load is placed on it. The lock setting is adjustable on-site and is based on the planned runs, pre-job deployment simulation modeling, anticipated stuck points, and available cablehead tension.



Benefits

- Safely releases electric wireline from a stuck tool string without the need for telemetry, wire-cutting operations, or weak-point breaking
- Can be positioned in the tool string to enable retrieval of expensive logging tools that are located above the stuck point
- Reduces risk of tool string pumpoff during pump-down operations by enabling an increase in the weak-point breaking value
- Facilitates increased cable pull at shallow depths in deep wells by enabling an increase in weak-point breaking value

Features

- Release activation can be managed or stopped during time delay by changing tension placed on the cablehead
- Uses proven hydraulic time-delay and mechanical-release technology from LockJar products to facilitate safe decoupling of electric wireline under various conditions
- After decoupling, a standard fishing neck remains looking up to facilitate fishing operations
- Available in 1.69-in. and 2.75-in. OD versions, and can be used in HP/HT applications up to 400°F (204°C) and 25,000 psi (172 MPa)

Before the CSR releases, the conductive path disengages, providing an indication on surface that the CSR release mechanism is functioning and progressing to a releasing operation. If the decision is made not to release, then the CSR can be returned to its original position by slacking off on cable tension to increase delay before release or restart the release process. After decoupling, the cable can be recovered and a standard fishing neck remains looking up.

The CSR also enables the service company to rehead with a stronger weak point in deep wells so that increased pull can be exerted on the tool string at shallow depths. The CSR can be

placed down the tool string to retrieve costly logging tools located above the CSR and the stuck point. Additionally, multiple CSR tools can be configured within a tool string for staged multiple release points.

Available in 1.69-in. and 2.75-in. outside diameters, the CSR can be used in logging and perforating applications up to 400°F (204°C) and 25,000 psi (172 MPa). For additional risk reduction, the Halliburton LockJar hydraulic logging jar can be run in conjunction with the CSR, enabling downhole tool retrieval without needing to release the electric wireline.



Cable Safe Release Tool (CSR) Specifications

Maximum OD	Pressure Rating	Temperature Rating	Length	Lock & Release Setting	Combinability
1.69 in.	25,000 psi (172 Mpa)	400°F (204°C)	6.94 ft (2.12 m)	750 to 1,500 lb (340 to 680 kg)	Go Type A
2.75 in.	25,000 psi (172 Mpa)	400°F (204°C)	7.08 ft (2.16 m)	1,500 to 2,500 lb (680 to 1,134 kg)	Go Type A or B

For more information, contact your local Halliburton representative.

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