

MaxFire® SL Electronic Firing System

The Halliburton MaxFire® SL Electronic Firing system has numerous built-in safety features, which enable explosive tools to be deployed and initiated on slickline, coil tubing, or jointed pipe. The tool uses temperature, pressure, tool motion, and time parameters, which must all match programmed values before the tool can function.

As more challenging and complex wells are explored, the Halliburton MaxFire system provides the flexibility needed for downhole, firing solution. The Halliburton MaxFire system is safe, precise, adaptable, and can be used for perforating, cutting, back-off, and setting plugs or packers.

The MaxFire SL system deploys the RED® detonator or igniter, featuring improved safety characteristics over conventional resistorized devices. With RF-safe and stray voltage characteristics, this enables wellsite activities to continue uninterrupted while perforating.

Benefits

- Radio-safe system enables normal operations to continue uninterrupted when perforating
- Field programmable
- Customizable programming provides flexibility
- Initial safeguards are mechanical pressure switch and temperature safety switch
- System records firing event for confirmation
- Provides a pressure and temperature memory log with every run

Features

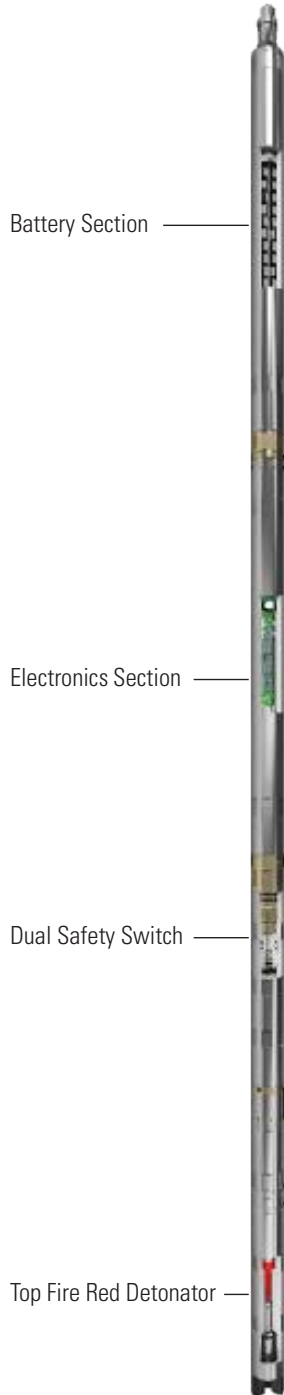
- Can be deployed on slickline, coil tubing, or jointed pipe
- Designed for use with Halliburton Rig Environment Detonator (RED®) or igniter
- Customizable programming parameters
- Programmable up to a 6-day run time
- Firing sequence can be reset or halted at any time with motion



HAL39378

Applications

- Perforating guns
- Explosive jet cutters
- Chemical cutters
- Setting tools
- Ultra-deep water or high-pressure targets
- Complex underbalanced jobs where lighter gas is used to evacuate tubing
- Extended delay completions



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Diameter	1.69 in. (4.3 cm)
Length	7.43 ft (2.26 m)
Pressure Rating	20,000 psi (137,895Kpa)
Temperature Rating	350°F (177°C)
Top Connection	15/16-10 UN Class 2A Thread (5/8-in. Sucker Rod)
Bottom Connection	GO-A Pin (1 3/16-12 UN-2A)
Memory	16 MB (supports 6 days of operation)
Sample Rate	Normal Mode – 1 sample/second Trigger Mode – 10 samples/second for 2 minutes and 1 sample/second after 2 minutes
Batteries	4 x 'CC' Cell Li Battery, 14 V recommended, 8V/16V Minimum/Maximum, Current – 8 mA Typical
Pressure Accuracy	14 to 20,000 psi ± 0.5 % of Full Scale
Temperature Accuracy	0 to 350°F ± 2% of Full Scale
Trigger Output Voltage	300 V to 350 V
Pressure Switch Opening Pressure	500 to 1,100 psi ± 100 psi
Temperature Switch Opening Temperature	60°C ± 3°C (140°F ± 9°F)
Temperature Switch Closing Temperature	57°C ± 3°C (135°F ± 9°F)
Trigger Delay Time	5 minutes up to 6 days



Providing safe options in conveyance, for your operational needs.

For more information, contact your Halliburton representative.

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Wireline & Perforating