

## SLICKLINE SERVICES

# MaxFire™ SL electronic firing system

Integrated cased hole through-tubing services

## 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

## 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

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.



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

**MAXFIRE™ SL ELECTRONIC FIRING SYSTEM****102211503**

<b>Diameter</b>	1.69 in. (4.3 cm)
<b>Length</b>	7.43 ft (2.26 m)
<b>Pressure Rating</b>	20,000 psi (137,895Kpa)
<b>Temperature Rating</b>	350°F (177°C)
<b>Top Connection</b>	15/16-10 UN Class 2A Thread (5/8-in. Sucker Rod)
<b>Bottom Connection</b>	GO-A Pin (1 3/16-12 UN-2A)
<b>Memory</b>	16 MB ( supports 6 days of operation)
<b>Sample Rate</b>	Normal Mode – 1 sample/second Trigger Mode – 10 samples/second for 2 minutes and 1 sample/second after 2 minutes
<b>Batteries</b>	4 x 'CC' Cell Li Battery, 14 V recommended, 8V/16V Minimum/Maximum, Current – 8 mA Typical
<b>Pressure Accuracy</b>	14 to 20,000 psi ± 0.5 % of Full Scale
<b>Temperature Accuracy</b>	0 to 350°F ± 2% of Full Scale
<b>Trigger Output Voltage</b>	300 V to 350 V
<b>Pressure Switch Opening Pressure</b>	500 to 1,100 psi ± 100 psi
<b>Temperature Switch Opening Temperature</b>	60°C ± 3°C (140°F ± 9°F)
<b>Temperature Switch Closing Temperature</b>	57°C ± 3°C (135°F ± 9°F)
<b>Trigger Delay Time</b>	5 minutes up to 6 days
<b>EXPLOSIVES</b>	
<b>RED Top Fire Detonator</b>	101272595
<b>RED Igniter</b>	101320910

Battery Section

Electronics Section

Dual Safety Switch

Top Fire Red Detonator



For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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