SMFT™ Multiconductor Jar

Deploys in extreme applications to prevent stuck toolstrings and expensive fishing during wireline logging

Applications

- Open hole
- Wireline logging

Features and Benefits

- Purely mechanical wireline jar—shorter and lighter than the hydraulic equivalent
- Weight-forward design ensuring self-relatching
- Repeatable, instant, and unlimited continual firing downhole
- No need for redressing after each run, even when activated
- Adjustable firing setting while still in the string

Tool Description

The Weatherford SMFT multiconductor jar is a multiconductor openhole wireline jar for use in extreme applications that helps prevent stuck toolstrings and expensive fishing operations.

Ultrareliable and unaffected by temperature or pressure, the SMFT jar provides instant and unlimited activations, with no potentially critical time delays. The jar activates as soon as wireline tension exceeds the predetermined setting and applies a powerful impulse to the stuck toolstring. The simple operation of the patented design enables the operator to reset the jar under its own weight for additional, unlimited activations.

The internal electrical and mechanical components of the SMFT jar are sealed and protected from wellbore fluids with an oil-filled pressure and temperature compensation system. The system compensates for changes in internal-fluid volume due to pressure-induced compression and temperature-induced expansion. Isolation of internal components from wellbore fluids allows for extended run time with minimal preventative maintenance and decreased frequency of full-service maintenance to reduce operating costs.

Weatherford®

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Proprietary jar-setting software models downhole dynamics and enables the operator to dial in the jar settings for each well's unique conditions. Impact ratios and activation forces can be optimized to suit job requirements and the jar adjusted accordingly.

On long-term rental, Weatherford can train customer personnel on best practices for running and maintaining the tools, making prolonged use more economical.

Specifications

	Standard	HPHT
Number of conductors	19	19
Outside diameter	3.375 in. (85.73 mm)	
Thread connection	3.125 in. (79.38 mm) 8 Stub Acme	
Maximum temperature	400°F (200°C)	500°F (260°C)
Maximum pressure	25,000 psi (172.4 MPa)	30,000 psi (206.8 MPa)
Length (closed)	111 in. (2.82 m)	
Length (open)	117 in. (2.97 m)	
Weight	210 lb (95.25 kg)	
Power stroke	5.10 in. (129.5 mm)	
Voltage rating	1,000 V	
Minimum setting	1,000 lb (453 kg)	
Maximum setting	10,000 lb (4,535 kg)	
Maximum tensile pull	120,000 lb (54,431 kg)	