

MCX[®] Multiconductor Jar

Delivers reliable and cost-effective jarring to proactively free stuck tools during openhole wireline operations

Applications

- Openhole wireline

Features and Benefits

- Simple, reliable design helps prevent stuck or lost toolstrings by providing precise downhole impacts.
- Single tool design needs no additional tools to enhance the operation.
- Wide-adjustment range of activation force and impact ratio provides multiple run and activation capability.
- Built-in mechanical indicator verifies downhole activation.
- Immediately re-latchable under the jar's own weight by decreasing line tension.
- Remote calibration using the Weatherford portable calibration tester.
- Electrical pass-through to the logging company's wireline toolstring with multiple connection types available.

Tool Description

The Weatherford MCX multiconductor wireline jar is a field-proven, cost-effective way to help prevent stuck toolstrings and expensive fishing jobs during wireline logging operations.

Robust, reliable, and unaffected by temperature or pressure, the MCX 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 patented design simplifies operation so the operator can reset the MCX jar under its own weight for additional, unlimited activations. By changing fluid flow ports on the tool, the impact ratio between activation and impact forces can be changed, enabling use of the MCX jar in a wide range of well and toolstring scenarios.

A mechanical indicator provides visual verification at surface of jar activation, which is easily reset between runs.



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The proprietary jar-setting software models downhole dynamics so the operator can dial in jar settings for each well's unique conditions. The impact ratio and activation force can be optimized to suit particular job requirements and the jar adjusted accordingly.

The MCX multiconductor jar is available in both standard and high-pressure, high-temperature (HPHT) specification, and with field connections to suit all major wireline service providers' tools.

To maximize the value of the tool, Weatherford recommends a specialist technician accompany the tool on each run.

Specifications

	Standard					HPHT	
Number of conductors	10	15	17	19	26	10	19
Outside diameter	3.375 in. (85.73 mm)					3.688 in. (93.68 mm)	
Thread connecting	2.875 in. 10 UN	3.125 in. 8-stub Acme	3.125 in. 6-stub Acme	3.125 in. 8-stub Acme	2.875 in. 10 UN	2.875 in. 10 UN	3.125 in. 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)	150 in. (3.81 m)	156 in. (3.96 m)	159 in. (4.04 m)	156 in. (3.96 m)	150 in. (3.81 m)		133 in. (3.38 m)
Length (open)	156 in. (3.96 m)	163 in. (4.14 m)	165 in. (4.19 m)	163 in. (4.14 m)	156 in. (3.96 m)		139 in. (3.53 m)
Weight	262 lb (118.84 kg)	260 lb (117.93 kg)	265 lb (120.20 kg)	260 lb (117.93 kg)	156 in. (3.96 m)		300 lb (136.08 kg)
Power stroke	5.25 in. (133.35 mm)						
Voltage Rating	1,000 V						
Minimum setting	1,000 lb (453 kg)						
Maximum setting	10,000 lb (4,535 kg)						
Maximum tensile	210,000 lb (95,254 kg)						

