



3 3/8" Product Line

Micro Spherical Focused Laterolog / Microlog

The Micro Spherical Focused Laterolog/Microlog instrument measures the resistivity of the flushed zone of the borehole. A caliper measurement of the borehole is also provided. The electrodes of the MSFL are mounted on a caliper arm, minimizing borehole effects and ensuring a high vertical resolution. The tool is complemented by an additional Microlog, which measures the resistivity of the flushed zone with high vertical resolution whilst reducing the influence of the mud cake and the borehole rugosity. A high-conductive mud is the preferred fluid in the hole for a MSFL.

Specifications

Diameter:	86/101 mm (3.39/3.98")	Sensors:	
Length:	3460 mm (136.2")	Resistivity:	Pad mounted Electrode Array
Weight:	93 kg (205 lbs)	Caliper:	Magneto-Resistive Sensors
Max. Temp:	175°C (350°F)	Measure Points (from bottom)	
Max. Pressure:	140 MPa (20 000 psi)	Min. Hole	661 mm (26")
Telemetry required:	yes	Max. Hole	719 mm (28.3")
Top Connector:	yes		
Bottom Connector:	yes		

Measuring Parameters

<u>Measuring Range:</u>		<u>Accuracy:</u>	
MSFL	0.2 to 2000 Ohmm	MSFL	±0.05 Ohmm + 5% of measured value
Caliper	150 to 500 mm (6 to 20")	Caliper:	±5 mm (0.2")
RNML	0.1 to 50 Ohmm	RNML, RLML	10%
RLML	0.1 to 50 Ohmm		

Logging Parameters

<u>Recommended</u>		<u>Recommended</u>	
Min. Hole Diameter:	200 mm (7.9")	Logging Speed:	6 -9 m/min (1180-1770 ft/hr)
Max. Hole Diameter:	506 mm (19.9")	Sample Rate:	selectable

Displayed Standard Curves

RMSFL in Ohmm	Microspherical Resistivity
Caliper in mm or inch	Borehole Diameter
RNML in Ohmm	Resitivity Microlog Normal
RLML in Ohmm	Resitivity Microlog Lateral

Combinability

With all other 3 3/8" instruments

