

LKH-172-NI RELEASE LINK - SubSeaSonics (FOR USE WITH AR-60-E Acoustic Release)

(Nov. 30, 2012) (file=LKH-172-NI_DATA_SHEET.doc)

Description: Highly corrosion resistant release link for use with AR-60-E acoustic release. Release hoops made with high nickel content metal wire. More robust than the LKH-162 but uses more battery energy and takes longer to release (see table below).

Load limit: 170 lb (77 kg) plus 80 lb (36 kg) surges. Load should be on-axis if surging.

Hoop size: Large enough to pass a 1/8 inch diameter line.

Wire metal: Proprietary, highly corrosion resistant.

Use: Replaceable release link for use with AR-60-E acoustic release.

Method of release: Electrolytic erosion of metal at exposed points.

Hoop construction wire diameter (excluding paint): 0.035 inch (0.89 mm)

The following table gives approximate release erosion times with 12 Energizer L91 lithium AA batteries installed internal to the AR-60-E in the special BH-60L battery holder provided:

HOOP PAINT REMOVED - WORST CASE (Lithium batteries)	HOOP PAINT INTACT (Lithium batteries)
6 minute @ 21°C (70°F) 10 minute @ 5°C (41°F) 15 minute @ 0°C (32°F)	3 minute @ 21°C (70°F) 5 minute @ 5°C (41°F) 7 minute @ 0°C (32°F)

Note: Bio fouling can extend these times by restricting the water path for ion flow.

Release erosion time with 12 **alkaline** AA batteries in place of lithium's: Up to three times as long.

Battery "energy" used in one release for worst case of all paint scraped off: 170 mA-Hr. One set of 12 lithium batteries should give 1.0 year including 6 releases or 0.5 year including 12 releases.

Reference Information: Lithium battery capacity = 3000 mA-Hr. Maximum battery current while ON and listening for a command equals 0.220 mA.