

LKH-262 RELEASE LINK - SubSeaSonics (FOR USE WITH AR-60-E Acoustic Release)

(Nov. 30, 2012) (file=LKH-262_DATA_SHEET.doc)

Description: Release link for use with AR-60-E acoustic release. Heavy load release link. Release hoops made with stainless steel wire alloy 316L. More robust than the LKH-162, but uses more battery energy and takes longer to release. See next paragraph on crevice corrosion.

Crevice Corrosion: A recent hoop failure has been identified as a result of 'crevice corrosion'. It caused one of the two hoops to release early. Accordingly consider deployment of all stainless steel release links with a single line passed through both hoops so that if one hoop releases early the other will most likely hold.

Alternatively, for the utmost corrosion resistance, use one of the high nickel content links such as the LKH-202-NI or the new LKH-172-NI. The down side on the LKH-202-NI is that it takes longer to release. The down side on the LKH-172-NI is that its load rating is less.

Load limit: 200 lb (91 kg) plus 100 lb (45 kg) surges. Load should be on-axis if surging.

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

Wire metal: Stainless steel alloy 316L.

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

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

Hoop construction wire diameter (excluding paint): 0.045 inch (1.14 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 ALL SCRAPED OFF - WORST CASE (Lithium batteries)	HOOP PAINT INTACT (Lithium batteries)
9 minute @ 21°C (70°F)	3 minute @ 21°C (70°F)
13 minute @ 5°C (41°F)	4 minute @ 5°C (41°F)
16 minute @ 0°C (32°F)	5 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: 240 mA-Hr. One set of 12 lithium batteries should give 1.0 year including 4 releases or 0.5 year including 8 releases.

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