



75Ω Impedance in a 50Ω Footprint with Losses of Just -.212dB.

You won't believe your eyes! The new BIRNS 1V series features a unique, compact coax contact that offers 75Ω impedance in the same footprint of a 50Ω contact. The new 1V line is ideal for HD/SD video with signal frequencies to 3GHz. All coax pin configurations in the 6km-rated [BIRNS Millennium™ series](#) are now offered with this new extremely compact coax contact.

These revolutionary new contacts offer groundbreaking performance attributes, with the latest third party testing yielding impressive results for these open face pressure resistant, deep submergence RF connectors. The most recent results, at GPS frequencies of 3GHz, include excellent 1.83:1 Voltage Standing Wave Ratio (VSWR), and incredibly low insertion losses of just -.212dB.

We've also recently launched the new 1B series: new ultra-low-loss RF pressure-rated connectors for use to SHF band Ku (18 GHz). We developed these pressure-rated low-loss RF connectors exclusively for the US Military for use to SHF band Ku.

This new RF technology was featured as the cover story in the latest edition of [International Ocean Systems](#).

Pictured above the 75Ω 1V (left) and a 50Ω 1C (right).

New Material Options

Does your subsea system require ALL titanium connector components? We've got you covered—the BIRNS Millennium series now has options of all titanium parts, from the coupling ring and shell to the snap rings. The series also offers selections that combine titanium and Delrin, as well as stainless steel and phosphor bronze.

