

# BIRNS Introduces New 1V and 1B Coax Connectivity Solutions



BIRNS, a leader in the design and manufacturing of high-performance connectors, cable assemblies and lighting systems, has introduced new RF subsea connector contacts that offer groundbreaking performance attributes. Coax subsea connectors had in the past been challenged in a range of design requirements, in many cases resulting in poor impedance, high losses, and inability to provide open face pressure resistance. However, BIRNS launched proprietary RF technology with contacts capable of open face pressure ratings to 1,433m, UHF insertion loss of  $\leq 0.7\text{dB}$  at signal frequencies to 3GHz and maximum UHF voltage standing wave ratio (VSWR) of 1.7:1.

The newest product introductions with these features include the [BIRNS 1V](#) series, featuring a compact coax contact that offers 75 $\Omega$  impedance in the same footprint of a 50 $\Omega$  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.

BIRNS also launched its 1B series: new ultra-low-loss RF pressure-rated connectors for use to SHF band Ku (18GHz). The company recently developed these pressure-rated low-loss RF connectors exclusively for the US military for use to SHF band Ku.

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