

HIGH PERFORMANCE NEWS

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Elite Naval Approval For BIRNS' Polyurethane Molding Facility



We're thrilled to announce that our world-class molding facility is now NAVSEA S9320-AM-PRO-020 certified! The US Navy's Submarine Maintenance Engineering, Planning and Procurement (SUBMEPP) department recently awarded the certification to BIRNS for Molding and Inspection Procedures for Fabricating Connector Plugs for Submarine Outboard Cables. We're very proud to receive the coveted Navy qualification-making us one of only seven such commercial organizations in the country. As a result, our company is now

Need A Little Fiber in Your System?

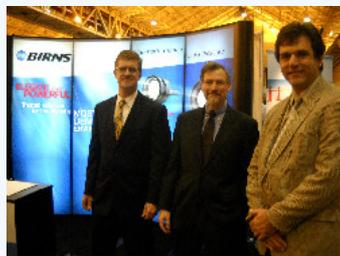


BIRNS has launched a new line of innovative fiber optic penetrators that blends massive data capabilities with extreme durability. The versatile design is tailored for the rigors of the subsea environment and can be adapted to a wide range of different cables.

These high performance optic penetrators come standard with pressure rating of 70 bar (1,000 PSI/2,300 FSW), but can be specified to higher rating, depending on the application, from ROV and AUV use, to defense submersibles and sonar arrays. They are meticulously engineered to enable reliable fiber transmission through a bulkhead and are extremely durable-constructed of AISI 316 stainless steel that's passivated per ASTM A967-05. They are rated for use up to 80°C (176°F) when fabricated with neoprene (polychloroprene) cable jackets, or up to 95°C (203°F) with optional CSPE cable jackets.

The line has extremely low insertion loss (<0.1 dB per channel), and conversely high return loss (>65 dB per channel.) Like all BIRNS penetrators, they meet or exceed ABS and DNV requirements when fabricated with Low Smoke Zero Halogen (LSZH) cables inboard, and are each individually serialized, certified and tested in accordance with BIRNS' ABS-approved test procedure ETP-6510-101.

Conventional Wisdom



The BIRNS engineering and sales teams made another huge splash at the Underwater Intervention show recently in New Orleans, LA. We had vigorous traffic at the booth, and

our new product launches were met with great interest. Our Optical/Photonics Engineer, Steve Bell, presented a well-received technical paper: *Considerations for Successful Optical Fiber Connectivity in Subsea Applications* at the show, which covered in detail the complexities of implementing fiber optic technology in a wide range of marine systems. [Click here for a link to his abstract and bio.](#) Contact us at service@birms.com if you are interested in a copy.

At the show, our team introduced the newest version of the BIRNS Aurora—a new high intensity Light Emitting Plasma (LEP) deep submergence light that provides dazzling, electronically dimmable, 14,000 lumen brilliance. The 6km-rated BIRNS Aurora, when unveiled in its preliminary stages at UI '11, had its electronics in a separate system from the housing. The final version, launched at UI '12, now includes

our company is now an approved vendor to fabricate, mold and inspect outboard cable assemblies and components for the Navy. This certification was granted after an extensive audit by Naval Sea Systems Command (NAVSEA) personnel, during which the BIRNS cable assembly, termination and quality assurance teams demonstrated absolute adherence to the exacting procedure of the NAVSEA Technical Manual.

"We are very proud that the BIRNS molding facility received PRO-020 status," says Eric Birns, President and CEO. "We've been serving the US Navy for more than 50 consecutive years with subsea lighting solutions and extreme depth connectors and cable assemblies, and this certification is a key component of our continued, growing military partnerships."



the electronic driver in the pressure housing with the lamp as a final all inclusive system.

Also new for 2012 is the seamless electronic dimming software (operable on any PC) which permits easy and continuous (i.e. step-free) slide-bar dimming down to 20% with no



reduction in color temperature or CRI (color rendering index) performance. The software also has pre-set 10% dimming increments (at 90%, 80%, 70%, etc.) enabling the BIRNS Aurora to be dimmed with a single mouse click. The luminaire also has a hot-restrike feature which immediately brings the lamp to full brightness from any dimmed setting.

BIRNS Awards Deborah K. Geist Memorial Scholarship

At a recent ceremony BIRNS, Inc. awarded Miss Lindsey Footitt of Moorpark High School the first annual Deborah K. Geist Memorial Scholarship award to be used toward her collegiate studies.

The late Deborah Geist was our Purchasing Agent for many years, before her sudden and tragic passing last year. Subsequently, the company launched an annual college scholarship in her memory to encourage and recognize local high school students in Ventura County with exceptional leadership potential, committed to the pursuit of excellence in a business career.



Lindsey Footitt of Moorpark High School Receives Scholarship from President and CEO Eric Birns

"I'm delighted that we found such an excellent scholar for this award's inception who exemplifies leadership and academic excellence," says Eric Birns, President and CEO of BIRNS. "Miss Footitt is a driven, hard working, well rounded student who is going to go on to be a huge professional success, and our entire team is very proud to award her this scholarship."



L to R: Carol Footitt, Lindsey Footitt, Mark Footitt and Eric Birns President and CEO of BIRNS, Inc.



ISO 9001:2008 Certified by DNV
NRC 10CFR50, App. B Compliant

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