

Subconn®



Introduction

The Subconn® underwater plugable electrical connector is an industry standard accepted worldwide as a reliable, affordable and available product. In early 1999, Subconn Inc. was established, as a joint venture, to serve the market in the Americas directly with the headquarters at the new manufacturing plant and a marketing organization based in Boston MA.



Subconn® Micro Series

Over recent years underwater instruments have reduced in size due to advances in electronic and software technology. The market demand for compact, reliable underwater mateable rubber moulded electrical connectors has increased. In order to meet these demands, the Subconn® range was extended to include the Micro series using proven contact technology. The series configuration extends from 2 to 16 contacts in standard in-line and bulkhead versions rated to full ocean depth. Micro low profile connectors are also available in 3, 7 and 9 pin.



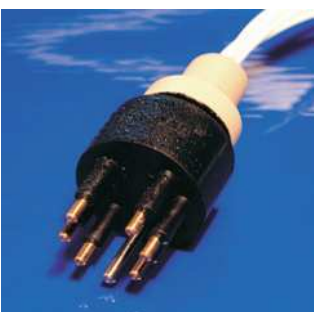
Subconn® Standard Circular Series

This was the first Subconn® series to be introduced to the market and today it still represents the bulk of sales. The connector is used extensively in diving, ROV, ocean science and underwater video applications with sales increasing in industrial and leisure markets. Standard products range from 2 to 16 contacts in 3 shell sizes rated at 15 Amp @ 600 V. Bulkhead and in-line connectors are standard and usually supplied with locking sleeves and pressure proof dummy plugs.



Subconn® Low Profile Series

Underwater electronic bottles usually require flush mounted connectors or penetrators to protect flying leads and to save space. The Subconn® Low Profile Series meets these requirements with up to 9 contacts (3, 7 & 9 pin with "Micro" contacts) in flush mounting bulkhead and in-line configurations, rated at 5 to 15 Amp @ 600 V. Snap on locking straps are also supplied. These rugged connectors are also full ocean depth rated.



Subconn® NM (non-metallic)

The new Subconn NM® series has been developed for harsh and aggressive environment and can be used with any type of metallic pressure vessels where cathodic corrosion may be an issue.

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Subconn® Metal Shell Series

The metal shell series comprises of metal shell flange mount and through bulkhead standard circular series connectors which mate with the corresponding standard circular in-line connectors, dummy plugs and locking sleeves. Designed for rugged applications, typically encountered in ROV and geophysical operations, the connectors interface with industry standard mounting configurations. The connectors are available in 2 to 10 contacts with similar specifications to the standard circular series.



Subconn® Power Connectors

The Subconn® range comprises of a variety of power connectors. The battery charging connector has 2 contacts rated at 30 Amp @ 600 V, and the single contact welding connector, with a cable size adapter, is rated 250 Amp @ 1.000 V. The two sizes of 4 contact power connectors, used extensively in underwater pump and hydraulic power pack supply, are rated respectively at 50 Amp @ 600 V and 65 Amp @ 2.500 V. These connectors are available in flange mount, bulkhead, in-line and overmould configurations.



Subconn® Aluminium Series

This series was specifically designed for the transition zone seismic telemetry market but has recently found use in military and ocean science applications. The standard connectors are available with 2, 6, 8 and 16 Subconn® contacts rated at 5 Amp @ 600 V with box mounted hard anodized aluminium male insert housings and mating inline or cable overmould female connectors. Waterproof protection caps, pressure dummy connectors and in-line locking sleeves are also supplied.



Customized Subconn® Designs

The Subconn® design concept has been used extensively to engineer "special" connectors and penetrators for individual applications. Products include the SplitConn, the AddConn for connecting hydrophones, lights etc. in series or parallel, the VentConn where electrical contacts are substituted with a vent pipe, magnetic Reed switches, hermaphroditic inserts, right angle bulkhead connectors, a complete range of penetrators and load bearing connectors.



Moulding of Subconn®

We offer certified and tested electrical, optical, hydraulic and pneumatic mechanical terminations together with a range of stockcables.

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