

Explosion-proof cables

HRADIL | German cable specialist Hradil Spezialkabel has introduced its newly developed Hradil SC44 cables for offshore platforms to the market. The cables comply with IEC 60079-14-9.3.1 regulations, certified by the first DEKRA report, the company said. IEC 60079-14-9 regulates the requirements of cables in explosive applications relating to mechanical damage as well as damage due to corrosion, chemical and thermic actions. However, the contractual obligation of IEC 60079-14-9.3.1 that a pumping action of explosive gases in a potentially

explosive environment be inhibited has been insufficiently met until now, mostly because a cable structure is not entirely compact, Hradil noted. Open spaces between cable wires and fillers may exist in which explosive gases flow and spread. Given this capillary structure, a zone entrainment cannot be excluded. The risk is even higher when the cable contains hygroscopic porous fillers like flow tissues and fibrous materials. Hradil has created a new production process to fulfil this particular contractual obligation for a wide range of cables.



The newly developed Hradil SC 44 cables fulfil the requirements of IEC 60079-14-9.3.1

It is a specially developed pressure-extrusion method, with which a flame-retardant, halogen and non-hygroscopic material mix is inserted. All cable cores and shieldings are embedded that all capillary

spaces within the wire are filled. There is no way a zone entrainment of combustible gases may occur. The SC 44 cables are available in different sizes and configurations.



The SubConn 21-pin connector

Underwater connector range extended

21 PINS | The MacArtney Group, a Denmark-based supplier of underwater technology, has launched the micro 21-pin connector. This latest addition to the series of wet mateable connectors in the SubConn® range has been designed for underwater technology projects requiring multiple sensor, signal and data connections along with power connections. In particular, the 21-pin SubConn® connector is ideal for applications requiring a large number of connections within a limited space, MacArtney notes.

This new SubConn® connector – with 21 pins for data and signal – is based on the existing B-size connector range, offering what the manufacturer says is the assured quality and reliability proven in decades of offshore use. Moreover, using the same dimensions as the standard B-size connector, the 21-pin connector is compatible with the same range of locking sleeves, nuts and other accessories. Having the largest pin count in the SubConn® B-size range, it is specially designed to suit

industry needs for a more compact multi-pin connector. SubConn® B-size connectors are used, for instance, for increasingly more compact underwater equipment solutions such as sensor packages and ROVs. The 21-pin series is available as a circular connector, in a bulk-head version with 5/8" thread and in an overmould version that can be moulded onto various cable types. The 21 signal pins are micro pin size and the range is rated to full ocean depth.

New power packs

HYDRAULIC GENERATORS | The Dutch company HydraulRent has announced that its hydraulic generator HydraPack 45E, with a capacity of 45 kW for industrial and offshore applications, is now available in three versions. In addition to the standard electrical power pack, an ATEX version for explosion-proof environments and a diesel-driven generator have been developed. Thanks to its modular design, the HydraPack 45E can be combined with other HydraPack 45E units when a higher output flow is required. To enable trouble-free start-up in any location, the electrically driven generators can be started one by one. All versions are built into equal-sized frames. Thus, they are easily combined with other units or hydraulic installations, such as filtration units. The series will soon be complemented by a water-glycol version, which will make use of a water-glycol mixture instead of hydraulic oil as medium, HydraulRent said.