



The **most** innovative and  
fastest **growing** supplier  
of Cable **Protection** Systems

**AHMTEC**  
cable protection systems

# The Company

## Markets and Services

AHMTEC is a trading division of Siem Offshore Contractors GmbH and is specialising in cable protection products from subsea to surface. We have developed our expertise and experience with major international organisations in the submarine cable, oil and gas industries and the off shore renewable energy sector. With many years of experience in protecting cables, umbilicals and pipelines, we offer our customers an extensive range of products, engineering and consultancy services on a world-wide basis. Complementing our head office, which is located in Leer/Germany, AHMTEC also has marketing representatives in the Middle East and North America.



By offering our clients a personal, dedicated and timely technical service, meeting our clients expectations of delivering products within budget and on time, we aim to become the supplier of first choice within the market. AHMTEC is committed to continuous improvement through scientifically sound and practical solutions.

# The AHM-Pipe

## Protection for cables, umbilicals and pipelines

The AHM-Pipe Cable Protection System has been designed as a simple and cost effective protection system for areas where conventional burial or trenching methods prove to be uneconomical and/or not achievable due to seabed conditions. The AHM-Pipe Cable Protection System is manufactured of ductile iron, a highly flexible and corrosion resistant material, and in accordance with the latest ISO, EN and DIN standards. It can also be supplied hot-dip galvanised or powder coated.



The AHM-Pipe submarine cable protectors are formed out of two identical half-shells, which form a self-locking articulated pipe. For a quick installation the AHM-Pipe Cable Protection System can be installed boltless. During installation the AHM-Pipe can either be fitted directly to the submarine product and floated-out or can alternatively be installed by divers once the submarine product has already been laid. Due to its design, the AHM-Pipe also acts as a natural bend limiter.

# The Accessories

## A complete product portfolio

For use with the AHM-Pipe Cable Protection System there is a wide variety of accessories available. These accessories allow, amongst others, the reversal of application direction and interfacing with flanged pipes or even concrete structures.



## The AHM-Pipe product range includes the following:

- the **AHM-Pipe** is available in three different length sizes and in fourteen different diameter sizes.
- the **AHM-Pipe Female Adapter** allows the connection between opposite strings of AHM-Pipe Cable Protection.
- the **AHM-Pipe Male Adapter** allows the assembly of AHM-Pipe Cable Protection in two directions.
- The **AHM-Pipe Flange Adapter** allows the seamless interface to flanges and concrete structures, such as beach manholes.
- the **AHM-Pipe Saddle Clamp** is used to mount the AHM-Pipe to the underlying surface for extra stability.







## Renewable Energy Sector

The development and installation of offshore wind farms as well as wave and tidal energy projects is growing at a tremendous rate to meet the increasing demand for renewable energy. Situated in remote locations and exposed to the harsh conditions of the environment, developers have to overcome installation engineering and operational reliability challenges to secure their investments in the power source of our future.

For approaches and subsea crossings in these relatively shallow waters, the AHM-Pipe Cable Protection System offers a mechanical protection and additional seabed stability for submarine products vulnerable to impact forces, scour and strong current conditions.



## Shore Approach and Landfall Installations

Landing points are usually carefully chosen to minimise the risk of submarine products being damaged. Though it is endeavoured to select locations with gentle seabed slopes and limited environmental exposure to current, wind and waves, shore end landing points also include areas with extreme natural conditions and features, such as areas with rock formations, coral reefs and coastlines which are subject to severe erosion.

Whether a submarine product is being trenched or surface laid, the AHM-Pipe Cable Protection System offers an additional mechanical protection, and seamless interfacing to beach manholes with use of the AHM-Pipe Flange Adapter.



## Offshore Oil and Gas Industry

Offshore oil and gas production facilities are becoming more and more important for today's energy supply. Besides conventional offshore structures in relatively shallow water, deep-water developments with remotely controlled infrastructure are installed. Hereby the reliability of submarine cables for shore-to-platform and inter-platform as well as individual umbilical connections have proven to be of critical importance.

The AHM-Pipe Cable Protection System offers a mechanical protection with resistance to high impact loads and also offers additional seabed stability for submarine cables and umbilical connections in difficult areas of installation and operation.



# Assembly Instruction

The AHM-Pipe Cable Protection System is easy to fit - whether simultaneously during the installation onboard a vessel/ barge or during a post-lay activity subsea/onshore. The identical, self-locking half-shells are assembled into a flexible, abrasion and impact protective pipe cover to the required length, whereby each pipe segment is simply secured to the next.

- 1** Place the first half-shell under the product.



- 2** Place the second half-shell directly over the bottom half-shell, then lower and engage to the bottom half-shell.



- 3** Lift up the center assembly and position the next bottom half-shell ensuring that the stub-end (male) is securely located in the clamp ball-end (female).



- 4** Repeat steps two and three until the required length of articulated pipe has been reached.



**Note: Even though the assembled pipe cover is self-locking, we recommend that the free-supplied nuts and bolts are applied to secure both the first and the last pipe segments as well as in 10m intervals along the length of the pipe cover.**

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