



## EVOLUTION

A new generation of eco-friendly lead free cables, consisting of a unique three layered structure that guarantees excellent chemical and mechanical resistance required for refinery, petrochemical and gas-treatment industries.

# EVOLUTION ... ECO-FRIENDLY

# ALTERNATIVE FOR TRADITIONAL LEAD CABLES

Our commitment to the protection of environment has resulted in the development of an environmentally friendly solution to lead sheathed cables.

New construction consists of a unique three layered design that guarantees excellent chemical and mechanical resistance required for the refining and petrochemical industries.

## CHARACTERISTICS

- » Eco-friendly and safe product
- » Approximately 10% lower price in comparison to traditional lead sheathed cables
- » Approximately 30% less weight resulting in lower transport, handling, storage and installation fees
- » Easier installation process
- » Termination time reduced by up to 50%
- » Comparable service life to lead sheathed cables
- » Ability to withstand harsh environments

## OPTIMISED DESIGN

Each of the three optimised material layers offer an impermeable barrier, equivalent to traditional lead sheathed cables:

1. Layer of aluminum tape with copolymer PE (AIPE), a barrier to moisture and water, also provides electro-magnetic (EMI) screening.



2. Layer of high density polyethylene (HDPE). Impermeable to inorganic compounds - acids and solvents

3. Polyamide layer (PA). Protection from organic compounds - hydrocarbons.

Excellent adhesion between the three layers ensures extended service life in difficult climatic conditions where oils, aromatic and inorganic chemical compounds are present.

To comply with customer specific flame propagation or low smoke installation requirements the cable is available with PVC or LSOH sheathing options.

Depending on customer needs the cable can be additionally modified in terms of fire resistance, which constitutes significant threat in refining and petrochemical environment.

## APPLICATION

Used for power, control and instrumentation applications in moist areas, underground where aliphatic and aromatic hydrocarbons may be present and mechanical protections is necessary.



## ALUMINUM TAPE WITH COPOLYMER PE (AIPE)

Provides a radial seal against harmful effects of moisture and water. Aluminum tape layer also offers excellent electro-magnetic interference (EMI) screening.

## HIGH DENSITY POLYETHYLENE (HDPE)

Provides resistance to inorganic compounds/chemicals used in chemical industry.

## POLYAMIDE LAYER (PA)

Provides resistance to organic compounds/chemicals used in refining and petrochemical industry.



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