

Odeskabel uses NIEHOFF equipment for LAN cable production

Last August, Odeskabel PJSC, one of the leading manufacturers of cable and wiring products in Eastern Europe, opened a new production hall for the manufacture of modern LAN cables at its cable plant in Odessa, Ukraine. For this purpose, Odeskabel acquired new generation equipment from leading global suppliers, among them NIEHOFF.

According to the latest edition of the international standard for generic cabling for customer premises ISO/IEC 11801:2017 for office and business structures, the use of LAN cables category 6A or higher is mandatory. Odeskabel is now in a position to feed the growing demand for high-quality LAN cables of higher categories in the Ukrainian market and in the markets of Western Europe.

The new production capacities increase the production volume of Odeskabel by 70 % or 5000 km of finished cable per month, while assuring that the quality level meets the highest international standards.



D. Iorgachev
President of
Odeskabel PJSC

Bernd Lohmüller
Managing Director
of NIEHOFF GmbH

Lead-sheathed cables and the environment

Lead-sheathed high-voltage (HV) power cables do not cause environmental degradation and health problems. This is the response of the Indian Ministry of Power to the claim of the Confederation of Indian Industry CII to ban Indian power and transmission utilities from using high-voltage power cables containing lead and to adopt “green” alternatives. The authorities have released a statement that lead cannot and will not be banned from HV cable since there is no threat and using lead is the best technical solution.

HFSAB, a company of the NIEHOFF Group, and the internationally leading manufacturer of horizontal lead extruders, can assure that the application of lead-sheathed cables in general is associated with more than 100 years of experience, and the environmental safety is proven and documented.

Many cables types including HV, EHV and Submarine cables need a protection against penetrating moisture. A continuously formed metal barrier around the exterior of the cable is the only way to permanently prevent ingress of moisture or moisture vapour, in all its forms, i.e. salts, pollutants, hydrocarbons,

gases. The metal must also be able to maintain its physical characteristics for the expected life of the cable, should constitute part of the cable providing fault current path and provide a mechanical protection for the cable against insects, vermin, micro organisms and other limited mechanical damage. Finally, the metal barrier must allow for flexibility of the cable, both for installation and service operation such as thermal expansion. Lead is the most common sheath material as it provides a good balance of all these requirements including resistance against corrosion, gasses, acids, and hydrocarbons.

Lead is 95 % recyclable (source: International Lead Association www.ila-lead.org/home) and is used in our every day life from our vehicle battery, power back up for mobile phone masts, power storage from solar and wind farms and in our life saving hospitals within the X-ray and scanning departments.

Lead sheathing of HV and EHV cables, submarine cables, ESP pump cables and cables used in the petrochemical industry, is easily and safely produced in a modern lead extruder; the sheath behaves like a homogenous and ductile metal



Corroded aluminium sheathed cable from the Middle East

tube allowing good cable flexibility. There is no need to apply lead thickly because “creep” grain growth can be controlled by production techniques. Compared with other moisture barrier materials, lead is heavy, and compared with aluminium, lead is a relatively expensive material. But cost considerations regarding cables should include not only

the material costs, but the total life costs of an installed cable. Compared with cable-sheaths made from aluminium, lead-sheaths last more than 6 times longer. An analysis of the rate of corrosion failure for 1985–2007 has revealed that the failure rate is more than 6.3 times larger for extruded aluminium-sheathed cable than for lead-sheathed cables (V.M.

Barinov: Corrosion protection of 6-10-35-110-220-kV Cable Lines in St. Petersburg. in: *Elektrotechnika* 2009, N. 3, pp 64–67). If lead is used correctly and in specific applications, as a solid material, it does not pollute the environment. Today all lead sheathed cables are covered in a plastic outer sheath. Therefore, any contamination into the soil etc is very unlikely.

Events

57th Intercable General Meeting
27–31 May 2019
Como, Italy

13th CRU Wire and Cable
Conference 2019
11–12 June 2019
Brussels, Belgium

wire Southeast Asia 2019
18–20 September 2019
Bangkok, Thailand

wire South America 2019
1–3 October 2019
São Paulo, Brazil

Wire & Cable Verona 2019
21–22 October 2019
Verona, Italy

HFSAB
H. FOLKE SANDELIN AB

H. Folke Sandelin AB
Dynamovägen 7
Box 4086
SE-591 04 Motala, Sweden
Tel: +46 (0) 141 20 36 30
Fax: +46 (0) 141 20 36 39
E-mail: hfsab@hfsab.com
<http://www.hfsab.com>