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MODERN DESIGN OF MEDIUM-VOLTAGE THREE CORE XLPE CABLES

ABSTRACT

In order to obtain good XLPE insulated middle voltage three core cables, improvements in the design, materials and production process have been made continuously over the past 35 years in Sweden. It is therefore possible today to design cables that are easy to manufacture, lay, strip and install, combined with long service life. The most important criteria in the work on development of the three core medium voltage cables is obtaining WTRC (Water Three Retardant Cable) cable execution. This development direction has made possible new design of universal cables EXCEL and AXCES and the newest design of ground and water cable AXAL-TT which are described in this paper.

Keywords: Three core cables, modern cable design, ground cables, water cables.