

DOI: <https://doi.org/10.15407/techned2016.04.005>

INCREASING THE EFFICIENCY OF CONTOUR SHIELDING OF THE MAGNETIC FIELD OF HIGH-VOLTAGE CABLE LINES

Journal	Tekhnichna elektrodynamika
Publisher	Institute of Electrodynamics National Academy of Science of Ukraine
ISSN	1607-7970 (print), 2218-1903 (online)
Issue	№ 4, 2016 (July/August)
Pages	5 – 7

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Abstract

Proposed a method for increasing the efficiency of the screening of the magnetic field of cable lines in the area of two-point bonding of single-core cable screens, based on an increase of inductance of the closed screen circuits by using of additional ferromagnetic cores covering the cables. Presented results of theoretical and experimental studies, confirming the 2-4-fold increase in shielding effectiveness using the method. The recommendations on the choice of the value of the inductance introduced depending on the desired rate of screening, cable parameters and the length of the shielded area. References 5, figures 5.

Key words: cable line, magnetic field, shielding circuit, ferromagnetic core.

Received: 10.02.2016

Accepted: 07.04.2016

Published: 21.06.2016

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