

An Improved formula for external thermal resistance of three buried single-core metal-sheathed touching cables in flat formation

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=121940&lokasi=lokal>

Abstrak

An improved formula for the assessment of the external thermal resistance of three buried single-core, metal-sheathed, touching cables, laid in a flat formation, is proposed. The formula arises from the analysis based on a coupled electric-thermal model, as well as on the stochastic optimization method based on differential evolution. The effect of the new formula on cable rating is illustrated in a numerical example.