













Fig. 12 Variation of the max. termination temperature with the variation of the thickness of the outer jacket at a constant loading current (240A) and a constant ambient temperature (22°C)

## VII. CONCLUSIONS

Also, the suggested electro-thermal analytical analysis has been applied to a termination of 15 kV, 240 mm<sup>2</sup> single core distribution cable. A comparison of the simulated temperature rises with actual measurements as well as with the finite element method results reveals a good agreement.

The present method can be applied for high voltage terminations with including the dielectric losses but possessing the same general features.

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