

cable selection, performance and evaluation



Examples of services

- Cable rating calculations and advice on cable selection
- Cross-talk calculations on umbilical cables
- Cable upgrading investigations for Utility companies
- Advice on submarine cable selection to Utility companies
- Testing for future editions on IEE Wiring Regulations (BS 7671)
- Thermal performance testing of equipment cabinets

ERA can advise on all aspects of cable selection performance and evaluation

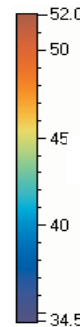
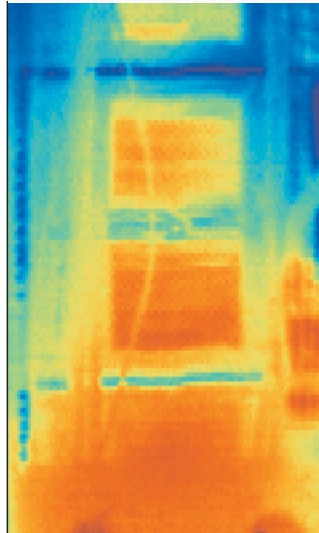
ERA has made extensive contributions to international current rating standards (eg IEC 60287, IEC 60853 and IEC 60364) as well as to BS 7671, IEE Wiring Regulations. We publish Current Rating Standards for cables in common use in the UK which are accepted internationally. Ratings for buried cables, cables in ducts and cables in air can be assessed on an individual basis when 'standard' current ratings are not appropriate. ERA staff have the experience and facilities to investigate either by testing or by calculation a wide range of problems involving heat transfer by conduction, radiation or natural convection.



We are also experts in the calculation and measurement of cable characteristics such as voltage drop, induced voltage, fault current withstand and cross-talk.

We devise specialised thermal test programmes to suit customer requirements and carry out design suitability assessments, commenting on the materials, construction and manufacturing techniques used.

We evaluate cable installation conditions and techniques, carrying out on-site soil thermal property measurements.



These evaluations are either carried out prior to selection of the cable size or on circuits that have been in operation for sometime and the true installed capacity has to be reassessed.

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ERA Technology

ERA Technology works at the leading edge of many advanced technologies. The business was founded in 1920 and today provides specialist, high value-added, technology-based services including design and development, testing, assessment and expert advice.

ERA's services reduce technical and commercial risk, improve the operational performance of engineering infrastructure assets, and enhance the competitiveness of products and systems.

ERA Technology is part of Cobham plc.

ERA Technology Ltd
Cleeve Road
Leatherhead
Surrey KT22 7SA
UK

Tel: +44 (0) 1372 367007
Fax: +44 (0) 1372 367009
E-mail: info@era.co.uk
www.era.co.uk



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