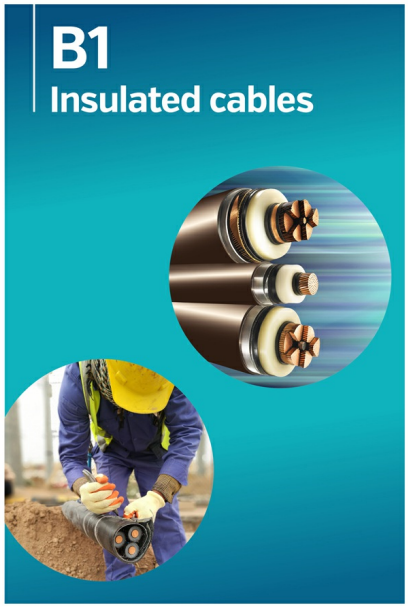
B1 - Insulated cables



Mission

To facilitate and promote the progress of engineering and the international exchange of information and knowledge in the field of insulated cables. To add value to this information and knowledge by means of synthesizing state-of-the-art practices and developing recommendations. To make Electric Power Industry (EPI) managers, decision-makers and regulators aware of the outcome of SC B1's work in the field of insulated cables.

Technological field of activity

- AC and DC insulated power cable systems for power transmission, distribution and generation connections on land and in submarine applications.
- Power cable systems associated with micro-grids and the integration of distributed resources.

Scope

Within its technical field of activity, **Study Committee B1** addresses topics throughout the asset management life-cycle phases; from conception, through research, development, design, production, deployment, operation, and end-of life.

Life cycle assessment techniques, risk management techniques, education and training are also important aspects.
Added focus on optimizing cable design for "unconventional" usage as part of the Energy Transition.

Within this framework additional specific areas of attention include:

- Theory, principles and concepts, functionality, technological development, design, performance and application of materials, efficiency;
- Manufacturing, testing, quality assurance, application guidance, planning, routing and location, construction, erection, installation;
- Reliability, availability, dependability, maintainability and maintenance, service, condition monitoring, diagnostics, restoration, repair, loading, upgrading, uprating;
- Refurbishment, re-use/re-deployment, deterioration, dismantling, disposal.

At all stages, technical, safety, economic, environmental and social aspects are addressed as well as interactions with, and integration into, the evolving power system and the environment.

Working groups

View a list of CIGRE's current working groups including for B1 here.

Publications

View all publications for Study Committee B1 on eCIGRE

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