

American National Standard

separable insulated connectors for
power distribution systems
above 600V

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ANSI
C119.2-1974

IEEE
Std 386-1974

An American National Standard

**IEEE Standard for
Separable Insulated Connectors for
Power Distribution Systems
Above 600 V**

Sponsor

**Transmission and Distribution Committee of the
IEEE Power Engineering Society**

Approved June 22, 1972

IEEE Standards Committee

Secretariat

**National Electrical Manufacturers Association
Edison Electric Institute
Institute of Electrical and Electronics Engineers**

Approved March 5, 1974

American National Standards Institute

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Foreword

(This foreword is not part of American National Standard for Separable Insulated Connectors for Power Distribution Systems Above 600 V, ANSI C119.2-1974, IEEE Std 386-1974.)

This standard was developed in response to a need created by the rapid expansion of underground distribution systems. A key element which allowed this expansion to become a reality is the separable insulated connector. This device provides for simple and inexpensive connection and switching to transformers and other equipment used in underground distribution.

When separable insulated connectors became available, the Institute of Electrical and Electronics Engineers and the National Electrical Manufacturers Association worked cooperatively to develop a document that would define the interfaces, ratings, and test conditions for the device. The success of that cooperative effort is apparent by observing both the vast number of these devices now in interchangeable use in the field and their enviable safety record.

This proposal was developed by an IEEE-NEMA Working Group sponsored by the Underground Distribution Subcommittee of the Transmission and Distribution Committee of the IEEE Power Engineering Society and the Primary Working Group of the Electrical Connector Section of NEMA. To the extent available, data used in this standard were gathered from pertinent existing industry standards for power cable, distribution transformers, and electrical apparatus.

One of the primary objectives of this standard is to provide a basis for interchangeability at the operating interface between connector elements supplied by different manufacturers. However, in order to avoid exclusion of any connector design, a multiplicity of interfaces which are not interchangeable with each other is included. Hence a purchaser must select a design for his particular need. Manufacturers are encouraged to use the designs presented and to submit new designs that future development may warrant.

Because the technology within the field of underground distribution is under constant development, with accompanying new products and distribution schemes, it is necessary to provide for constant review of these connector requirements and to make participation in this ongoing activity available to all concerned organizations. To accomplish this purpose and provide a mechanism for development of additional related standards, American National Standards Committee C119 was organized under the joint Secretariat of the Edison Electric Institute, the Institute of Electrical and Electronics Engineers, and the National Electrical Manufacturers Association, with a balanced representation of users', manufacturers', and general interest expertise. It is the hope and the expectation of C119 that those who have comments and additions may assist in the revision activity by forwarding their comments to C119, American National Standards Institute, 1430 Broadway, New York, N.Y. 10018.

The present document serves as the basis for a revision activity that is already under way. Present membership of C119 consists of the following organizations:

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Contents

SECTION	PAGE
1. Scope	7
2. Definitions	7
3. Service Conditions	7
3.1 Usual Service Conditions	7
3.2 Unusual Service Conditions	8
4. Ratings and Characteristics	8
4.1 Voltage Ratings	8
4.2 Continuous Current Ratings	8
4.3 Switching Current Ratings	8
4.4 Fault-closure Current Ratings	8
4.5 Short-time Current Ratings	9
5. Construction	9
5.1 Identification	9
5.2 Operating Means	9
5.3 Shielding	9
5.4 Interchangeability	9
5.5 Test Point	9
5.6 External Clamping Means	9
6. Testing	9
6.1 Production Tests	9
6.2 Design Tests	9
6.3 Test Conditions	16
6.4 Corona Voltage Level	16
6.5 Dielectric Tests	16
6.6 Short-time Current Test	17
6.7 Switching Current Test	17
6.8 Fault-closure Current Test	17
6.9 Temperature Rise Test	17
6.10 Current Cycling Test	18
6.11 Cable Pull-out Test	18
6.12 Operating Force Test	18
6.13 Operating Eye Test	18
6.14 Water Submersion Test	18
6.15 Test Point Tests	18
TABLES	
Table 1 Voltage Ratings and Characteristics	8
Table 2 Current Ratings	8
FIGURES	
Fig 1 200 A Bushing Well Interface, 8.3 and 15.2 kV	10
Fig 2 200 A Nonload-break Interface Number 1, 8.3 and 15.2 kV	10
Fig 3 200 A Nonload-break Interface Number 2, 8.3 kV	11
Fig 4 200 A Load-break Interface Number 1, 8.3 kV	11
Fig 5 200 A Load-break Interface Number 2, 8.3 kV	12
Fig 6 600 A Nonload-break Interface Number 1, 8.3 and 15.2 kV	12
Fig 7 600 A Nonload-break Interface Number 2, 8.3 kV	13
Fig 8 600 A Nonload-break Interface Number 3, 8.3 and 15.2 kV	13