



ANSI/NEMA C29.18-2003

American National
Standard for Insulators
- Composite -
Distribution Line Post
Type



National Electrical Manufacturers Association
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ANSI C29.18-2003

American National Standard

for Insulators Composite—

Distribution Line Post Type



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Distribution Line Post Type**

Secretariat:

National Electrical Manufacturers Association

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Foreword (This Foreword is not part of American National Standard C29.18-2003.)

This first edition of this standard was based on a NEMA proposed standards publication for composite distribution line post type insulators used on overhead distribution lines. It was developed at the request of the American National Standards Committee on Insulators for Electric Power Lines, ASC C-29.

This standard was processed and approved for submittal to ANSI by ASC C-29. Committee approval of the standard does not necessarily imply that all committee members voted for approval. At the time it approved this standard, the ASC C-29 Committee had the following members:

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For Insulators Composite— Distribution Line Post Type

1 Scope

This standard covers composite distribution line post insulators made of a fiberglass-reinforced resin matrix core, elastomeric material weathersheds, and metal end fittings designed for use on overhead lines for electric power systems, 69 kV and below. Mechanical and electrical performance levels specified herein are requirements for new insulators.

2 Definitions

See Section 3 of American National Standard for Composite Insulators – Test Methods, ANSI C29.11; Section 3 of American National Standard for Insulators-Composites- Line Post Type, ANSI C29.17; and Section 2 of American National Standard Test Methods for Electrical Power Insulators, ANSI C29.1, for definition of terms.

3 General

Insulators shall conform in all respects to the requirements of this standard. The text and figures supplement each other and shall be considered part of this standard.

3.1 Drawings

Manufacturer's drawings, if furnished, shall show the outline of the insulators, together with all pertinent electrical characteristics, mechanical characteristics, leakage distance, and dimensions as specified herein.

4 Materials

4.1 Core

The core of the insulator shall consist of a fiberglass-reinforced resin matrix. The core shall be sound and free of defects that might adversely affect the mechanical or electrical properties of the insulators.

4.2 Weathersheds

The weathersheds shall be made of elastomeric materials such as ethylene propylene or silicone elastomers. They may contain inorganic fillers and organic compounding agents.

4.3 Metal parts

Metal parts shall be made of a good commercial grade of malleable iron, ductile iron, steel, or aluminum. Ferrous parts, other than stainless steel, shall be galvanized in accordance with ASTM A153.