

AMERICAN SOCIETY FOR TESTING AND MATERIALS

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Standard Specifications for COMMUNICATION AND SIGNAL PIN-TYPE LIME-GLASS INSULATORS¹



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This Standard of the American Society for Testing and Materials is issued under the fixed designation D 879; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

NOTE.—Editorial changes in Table I and Fig. 1 were made in March, 1964.

Scope

1. These specifications cover pin-type lime-glass insulators for use in supporting conductors on open-wire communication and signal lines.

Material

2. The insulators shall be of lime glass of the grade generally accepted for communication and signal line work, of good quality and homogeneity. The glass used shall be transparent, and if not colorless shall be only slightly tinted. Insulators shall be manufactured and processed in a careful and workmanlike manner, in accordance with good design and commercial practice.

Thermal Shock

3. The glass insulators shall be capable of standing, without cracking, checking

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the ASTM Committee D-9 on Electrical Insulating Materials.

² Prior to adoption as standard, these specifications were published as Emergency Specifications ES-41 from 1944 to 1946, being revised and issued as tentative in 1946. They were published as tentative from 1946 to 1949.

or chipping, hot-to-cold and cold-to-hot thermal shock tests as described in Section 11.

Electrical Characteristics

4. The electrical characteristics of the material when measured at 1000 cps in accordance with Section 13 shall be such that the dielectric constant will be not more than 7.9, and the product of the dissipation factor and the dielectric constant will be not more than 0.28.

Dimensions and Permissible Variations

5. (a) *Design and Construction.*—Pin-type lime-glass insulators shall conform to the requirements for physical dimensions in accordance with the applicable style shown in Fig. 1, and shall give evidence of satisfactory workmanship in accordance with the requirements prescribed in the following Paragraphs (b) to (e).

(b) *Screw Threads.*—The insulators shall have the standard screw threads to fit the wooden-pin gage or the CSC gage, as applicable. The dimensions and construction of these gages shall be as described in Figs. 2 and 3. The thread shall