

Tentative Specifications for
**INSULATED WIRE AND CABLE: CLASS AO, 30 PER CENT
HEVEA RUBBER COMPOUND¹**



A.S.T.M. Designation: D 27 - 46 T

ISSUED, 1946; REVISED, 1946.²

These Tentative Specifications have been approved by the sponsoring committee and accepted by the Society in accordance with established procedures, for use pending adoption as standard. Suggestions for revisions should be addressed to the Society at 1916 Race St., Philadelphia 3, Pa.

Scope

1. These specifications cover the conductors, insulation, cable tape, cotton braid, and lead sheaths of Class AO rubber insulated wire and cable. The design and factor of safety depend upon the service conditions and shall be at the option of the purchaser.

CONDUCTOR

Material

2. The conductor shall be soft annealed copper properly coated with tin, lead, or lead-alloy, and shall have the properties and characteristics specified in Sections 3 to 7. Coatings conducive to galvanic action at splices, such as zinc, are not recommended.

Strand

3. Each individual wire of a stranded

conductor shall be considered separately and shall be designated as a strand.

Shape

4. Each solid conductor and each strand shall be round and reasonably free from imperfections.

Stranding

5. The stranding shall conform to the Standard Specifications for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft (A.S.T.M. Designation: B 8) Table II, class B or, where specified, class C.³ If a more flexible stranding is specified in the order, it shall conform to the requirements prescribed in the Tentative Specifications for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members for Electrical Conductors (A.S.T.M. Designation: B 172),³ or for Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members for Electrical Conductors (A.S.T.M. Designation: B 173),³ or for Bunch-Stranded Copper Conductors for Electrical Conductors (A.S.T.M. Designation: B 174).²

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the A.S.T.M. Committee D-11 on Rubber and Rubber-Like Materials.

² Reverted to tentative by action of the Society at the Annual Meeting, June, 1946; revision accepted by the Administrative Committee on Standards, September 9, 1946.

Prior to their present publication as tentative, these specifications were published as tentative from 1916 to 1941, being revised in 1916, 1921, 1928, 1931, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, and 1941. They were adopted in 1941, published as standard from 1941 to 1946, when they were revised and republished as tentative.

³ 1946 Book of A.S.T.M. Standards, Part I-B.