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*American National Standard for
Electrical Rigid Steel Conduit (ERSC)*

Secretariat:

National Electrical Manufacturers Association

Approved: December 29, 2020

American National Standards Institute, Inc.

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Foreword (This foreword is not part of American National Standard C80.1-2020)

This Standard was developed by the Accredited Standards Committee on Raceways for Electrical Wiring Systems, C80. The objective of the committee is to produce a comprehensive specification that will establish uniform dimensions and Standard construction requirements for Electrical Rigid Steel Conduit, Steel Electrical Metallic Tubing, Electrical Intermediate Metal Conduit, and Electrical Aluminum Rigid Conduit raceway products and their associated components.

This Standard was originally approved in 1950 and revised in 1953, 1959, 1963, 1966, 1977, 1983, 1990, 1994, 2004, 2005, and 2015.

Suggestions for improvement of this Standard are welcome. They should be sent to:

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This Standard was processed and approved for submittal to ANSI by the Accredited Standards Committee (ASC C80), Raceways for Electrical Wiring Systems. Committee approval of the Standard does not necessarily imply that all committee Members voted for its approval. At the time it approved this Standard, the C80 Committee had the following Members:

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1 Scope

This Standard covers the requirements for an electrical rigid steel conduit for use as a raceway for wires or cables of an electrical system. Finished conduit is produced in standard 10 ft. (3.05 m) lengths, threaded on each end with one coupling attached. The production of lengths shorter or longer than the Standard length shall be allowed, whether threaded or unthreaded and with or without couplings. ERMC-S is protected on the exterior surface with a metallic zinc coating or alternate corrosion protection coating (as specified in clauses 5.3.3, 6.2.4, 7.8, and 7.9 in UL 6) and on the interior surface with zinc or organic coating.

This Standard also covers conduit couplings, elbows, and nipples.

Properly assembled systems of conduit, couplings, elbows, and nipples manufactured in accordance with this Standard and other identified fitting provide for the electrical continuity required of an equipment grounding conductor.