
Continuity of Coating Testing for Electrical Conductors

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Foreword

This standard has been developed by the Polysulfide Task Force of the Aerospace Subcommittee (members as listed below) of the High Performance Wire and Cable Section of NEMA in close coordination between manufacturers, users, third party certifying agencies and others having specialized experience. The Aerospace Subcommittee of the High Performance Wire and Cable Section of NEMA periodically reviews this standard for any revisions necessary to keep it up to date. Proposed revisions or comments should be submitted to:

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Montrose/CDT—Auburn, MA
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Quirk Wire—W. Brookfield, MA
Radix Wire—Cleveland, OH
Raychem Corp.—Menlo Park, CA
Rockbestos-Surprenant Corp.—Clinton, MA
Tensolite Company—St. Augustine, FL
Section 1
GENERAL

1.1 SCOPE

This standards publication contains a review of the problems that have occurred when polysulfide testing has been improperly imposed on tin, silver and nickel coated copper and copper alloy stranded conductors or on tin, silver or nickel coated copper and copper alloy single or stranded conductors after insulating. The Sodium Polysulfide Test is a materials inspection test, not a finished wire or cable test, and should only be imposed on a single strand/conductor prior to stranding or insulating. A new test, called the "white card" continuity of coating test, is presented as a solution to these problems and can also be utilized on shield wires. This new test is referenced in ANSI/NEMA WC 67.