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Insulated High-Temperature Hook-Up Wire; Types ET (250 Volts), E (600 Volts), and EE (1000 Volts)

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Foreword

The Standards publication was developed by the NEMA High-Performance Wire and Cable Section. This Standard was developed to assure that Insulated High-Temperature Hook-Up Wire of Types ET (250 Volts), E (600 Volts), and EE (1000 Volts) can be procured and that they will meet requirements associated with high reliability commercial electrical and electronic equipment in which it is used. Compliance with provisions of this Standards publication is strictly voluntary, and any certification of compliance is left to the discretion of the buyer and seller.

This Standards publication was designed as a non-government Standard for the replacement of MIL-W-16878 PTFE insulated wire slash sheets (/4, /5, /6, /20 through /27, /34, and /35).

In the preparation of this Standard publication, the input of users and other interested parties has been considered. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA product subdivision by contacting the:

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This Standards publication was developed by the NEMA High-Performance Wire and Cable Section Aerospace Committee. Section approval of the Standard does not necessarily imply that all section Members voted for its approval or participated in its development. At the time it was approved, the section was composed of the following Members:

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This Standard was processed and approved for submittal to ANSI by the NEMA C8 Committee on Insulated Wire and Cables, Excluding Magnet Wire. 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 C8 committee had the following Members:

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Jared	Weitzel	Prysmian Group
Lee	Perry	Service Wire Company
Nigel	Hampton	NEETRAC
Ewell	Robeson	Carolina Power & Light

1 Scope

1.1 Scope

This Standards publication covers specific requirements for PTFE (polytetrafluoroethylene) insulated solid and stranded wire designed for the internal wiring of high reliability electrical and electronic equipment. This Standards Publication addresses 250 volt (Type ET), 600 volt (Type E), and 1000 volt (Type EE) wire and permits continuous conductor temperature ratings of −65°C to +200°C with silver-coated conductors and −65°C to +260°C with nickel-coated conductors. These types of hook-up wires are used when the following properties are called for:

- High-temperature resistance
- Low-temperature resistance
- Low dielectric constant
- Solder iron resistance
- Resistance to cleaning solutions or a variety of chemicals that may come in contact with either the wire or the equipment
- Good flexibility and flex life when stranded conductors are used