American National Standard for Uninsulated Conductors—Used in Electrical and Electronic Applications

Secretariat:

National Electrical Manufacturers Association

Approved: February 13, 2015

American National Standards Institute, Inc.
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FOREWORD

This standard publication was developed by the NEMA High Performance Wire and Cable Section as an alternative non-government standard to MIL-DTL-29606. This publication assures that all included conductors, both metric and English (inch/pound) sizes will meet the current requirements associated with high-reliability aerospace electrical and electronic equipment. This standard was adapted from, and harmonizes the following specifications: MIL-DTL-29606, ISO 2635, PREN 2083, and BSI 231. In addition, it also utilizes many of the ASTM conductor standards for reference purposes.

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### Section 10 DETAILS OF CONDUCTORS

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Section 1
GENERAL

1.1 SCOPE

This standard covers the following uninsulated conductors:

a) Single end (solid) and stranded;
b) coated and uncoated copper;
c) coated copper alloy;
d) coated copper-clad steel;
e) aluminum conductors; and,
f) thermocouple extension conductors.

These conductors are used primarily in insulated wires for aerospace, electrical, electronic, and other high performance applications.

Both metric and English (inch/pound) conductors are included in this standard. Where alternative units are shown in parenthesis, English (inch/pound) units shall be normative.