NEW ICEA STANDARDS FOR POWER CABLES

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Outline

• Existing NEMA/ICEA and ANSI/ICEA standards
• Proposed changes to standards
• New ANSI/ICEA and ANSI/NEMA/ICEA standards
• Other NEMA/ICEA standards
• Availability of standards
Proposed Changes

- Four major standards are based on insulation material
- All new standards will be application oriented
Existing Standards

- NEMA WC 3-1992/ICEA S-19-81 Rubber Insulated Wire & Cable
- NEMA WC 5-1992/ICEA S-61-402 Thermoplastic Insulated Wire & Cable
- NEMA WC 7-1988/ICEA S-66-524 Crosslinked Polyethylene Insulated Wire & Cable
Existing Standards

- NEMA WC 8-1988/ICEA S-68-516 Ethylene Propylene Rubber Insulated Wire & Cable
Existing Standards

- ANSI/ICEA S-70-547-1992 Weather-Resistant Polyolefin-Covered Wire & Cable
- ANSI/ICEA S-81-570-1996 Direct Burial 600 Volt Cable With Ruggedized Extruded Insulation
New Standards

- ANSI/ICEA S-94-649-1997 Concentric Neutral Cables Rated 5 – 46 kV
- (ANSI/)ICEA S-97-682-2000 Utility Shielded Cables Rated 5 – 46 kV
- Draft ICEA S-105-692 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cable
New Standards

- (NEMA WC 74-2000/)ICEA S-93-639 Shielded Power Cables Rated 5,000 – 46,000 Volts
Other Standards

- NEMA WC 54-1990/ICEA T-26-465 Guide for Frequency of Sampling Extruded Dielectric Cables
- NEMA WC 55-1992/ICEA S-82-552 Instrumentation Cables and Thermocouple Wire
Other Standards

• NEMA WC 57-1995/ICEA S-73-532
  Standard for Control Cables

• NEMA WC 58-1997/ICEA S-75-381
  Portable and Power Feeder Cables for Use in Mines
Availability

- Four major standards will be archived

- All new ANSI/NEMA/ICEA standards will be available from Global Engineering Documents
Availability

Global Engineering Documents
15 Inverness Way East
Englewood, CO 80112, USA
Tel: (800) 854-7179 or (303) 397-7956,
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