

ASTM

Conductor Standards Update

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Who is ASTM?

ASTM International

- Originally American Society for Testing and Materials
- Over 100 years old
- Founded to standardize steel used in railroads
- Over 30,000 members world wide
- Provides standards to ensure public safety
- Diverse range of industries



What does ASTM do?

ASTM International:

- Creates standards for new products
- Maintains standards for existing products
- Standards are reviewed every 4 years

The goal is to create non-biased, manufacturing and testing standards to ensure safe, consistent, quality products with input from manufactures and end-users.



ASTM Sub-committees

Subcommittees are where the work is done.
Members are from:

- Manufacturers
- Utilities
- End users
- General Interest

Membership must be balanced.



ASTM B01 Structure

Committee B01 Electrical Conductors is made up of several sub-committees:

- B01.02 Methods of Test and Sampling
- B01.04 Conductors of Copper and Copper Alloys
- B01.05 Conductors of Ferrous Metals
- B01.06 Composite Conductors
- B01.07 Conductors of Light Metals



Recently Added...

Standards that have been recently added:

- B957-08 Extra-High Strength and Ultra-High Strength Zinc Coated (Galvanized) Steel Core wire for Use in Overhead Electrical Conductors
- B958-08 Extra-High Strength and Ultra-High Strength Class A Zinc-5% Aluminum- Mischmetal Alloy–Coated Steel Core wire for Use in Overhead Electrical Conductors



Recently Changed...

Steel Core Strength Designations:

- Standard Strength is now denoted with a “2”
- High-Strength is now denoted with a “3”
- Extra-High Strength now denoted with a “4”
- Ultra-High Strength now denoted with a “5”

GA2 – Zinc Galvanized, Class A, Standard strength

MA3 – Zinc-5% Aluminum Mischmetal, Class A,
High strength



Recently Changed...

Corrosion Classes Removed

- Class B has been removed from the standards
- Class C still there, but hard to get and costly

Aluminized Steel Coating Removed

- B341 Aluminum Coated (Aluminized) Steel core wire was withdrawn in 2007



Coming soon...

New Standards for:

- Non-Specular Conductor Finish
- Code Words
- High Strength Aluminum-Clad Steel Core Wire
- Aluminum Conductor Composite Reinforced
- Stress-Strain and Creep Test Methods



ASTM needs you

ASTM B01:

- Meets twice a year
- You can be active and not attend meetings
- Receive ballot notifications by email
- Vote and comment through ASTM website
- What new standards are needed
- Always need more end user participation



Contact Information



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