

MATERIAL STANDARD**WIRE, PORTABLE CORD****1. Scope**

This material standard covers flexible, multi-conductor, portable cord used for making extension cords or repairing small electric hand tools.

Voltage rating is typically used to denote hardness of service. Yellow, 600 volt cord is for hard service and is good for making up highly visible extension cords. Black, 300 volt, cord is known as junior hard and is good for repairing hand tools.

2. Industry Standards

Portable cord shall meet the applicable requirements of:

UL 62 - FLEXIBLE CORD AND FIXTURE WIRE (1997)

3. Conductor

Conductor shall be stranded, annealed bare copper.

4. Insulation

Insulation shall be oil resistant.

5. Color Identification

Color identification of inner conductors shall follow North American convention.

Individual conductors of 2/C assemblies shall be permanently identified black/white.

Individual conductors of 3/C assemblies shall be permanently identified black/white/green.

6. Filler and Separator

Portable cord shall be assembled with high-grade filler for roundness and strength and a separator for firmness and reinforcement.

7. Jacket

Jacket shall be free-stripping.

Jacket shall be oil and weather resistant.

Jacket color shall be according to **Table 1**.

8. Completed Assembly

Portable cord shall remain flexible and not crack or deform at temperatures between -40 to +90 degrees Centigrade.

No component of the completed portable cord assembly shall contain polyvinyl chloride (PVC).

9. Marking

Jacket shall be permanently marked with manufacturer, conductor size, number of conductors, code type, and UL.

STANDARDS COORDINATOR

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MATERIAL STANDARD**10. Stock Unit: FT****Table 1**

| Stock Number | Number of Conductors | Conductor Size, AWG | Voltage Rating (Volts) | Outside Diameter, in. | Approved Codes | Approved Colors |
|---------------------|-----------------------------|----------------------------|-------------------------------|------------------------------|-----------------------|------------------------|
| 615776 | 2 | 16 | 300 | 0.33 | SJOOW | Black |
| | | | | | SJEOOW | Yellow |
| 615777 | 2 | 14 | 300 | 0.38 | SJOOW | Black |
| | | | | | SJEOOW | Yellow |
| 615853 | 3 | 16 | 300 | 0.36 | SJOOW | Black |
| | | | | | SJEOOW | Yellow |
| 616090 | 3 | 14 | 300 | 0.41 | SJOOW | Black |
| | | | | | SJEOOW | Yellow |
| 615828 | 3 | 16 | 600 | 0.43 | SEOOW | Yellow |
| 615829 | 3 | 14 | 600 | 0.56 | SEOOW | Yellow |