



Premium  
Part No. 46-33

# WIRE ARMOUR

## Professional Grade Vinyl Electrical Tape

### Specifications

A 7 mil (0.18mm) all weather, professional grade, pressure sensitive vinyl tape which applies easily and gives excellent performance over a wide range of temperatures. Cold and weather resistant and flame retardant. 46-33 can be used as primary insulation for splices up to 600 volts. Use as protective outer jacket over splices and for all low temperature applications.



### Technical Characteristics

| Property                       | Value             | Unit    | Test Method      |
|--------------------------------|-------------------|---------|------------------|
| Color                          | Black             | —       | —                |
| Thickness                      | 0.007             | inch    | ASTM D 1000      |
|                                | 0.18              | mm      | ASTM D 1000      |
| Tensile Strength               | 17                | lb./in. | ASTM D 1000      |
|                                | 30                | N/cm    | ASTM D 1000      |
| Elongation                     | 260               | %       | ASTM D 1000      |
| Adhesion to Steel              | 20                | oz./in. | ASTM D 1000      |
|                                | 2.2               | N/cm    | ASTM D 1000      |
| Adhesion to Backing            | 20                | oz./in. | ASTM D 1000      |
|                                | 2.2               | N/cm    | ASTM D 1000      |
| Adhesion to Backing @ -7°C     | 50                | oz./in. | ASTM D 1000      |
|                                | 5.5               | N/cm    | ASTM D 1000      |
| Unwind @ 7°C                   | 50                | oz./in. | ASTM D 1000      |
|                                | 5.5               | N/cm    | ASTM D 1000      |
| Flammability                   | 4 Max.            | second  | ASTM D 1000      |
| Flagging                       | 0.12 Max.         | inch    | ASTM D 1000      |
|                                | 3 max.            | mm      | ASTM D 1000      |
| Temperature Rating:<br>Maximum | 176 / 80          | °F / °C | UL 510           |
|                                | 221 / 105         | °F / °C | CSA 22.2 no. 197 |
| Minimum                        | 14 / -10          | °F / °C | UL 510           |
|                                | 0 / -18           | °F / °C | CSA 22.2 no. 197 |
| Dielectric Strength: Standard  | 9000              | V       | ASTM D 1000      |
| Wet                            | 8100              | V       | ASTM D 1000      |
| Dielectric Constant            | 3.2               | —       | ASTM D 150       |
| Power Factor                   | 0.01              | —       | ASTM D 150       |
| Insulation Resistance          | 1x10 <sup>6</sup> | MΩ      | ASTM D 1000      |

### Features:

- 7 mil thickness
- Cold and weather resistant
- High dielectric strength
- Highly elastic
- Flame retardant
- Highly resistant to sun, water, oil, acids, alkalis and corrosive chemicals
- Lead free
- Meets:
  - ASTM D 3005, Type I
  - HH-1595C / A-A-55809A
  - EN 60454-3-1, Type 11
  - UL 510
  - CSA C 22.2 No. 197

### Recommended Uses

Used for general splicing purposes. Can be used as primary insulation for splices up to 600 volts. Provide a protective outer jacket over splices for all low temperature applications. Can be used for wrapping wire harnesses and insulating degaussing coils.

### Standard Sizes:

- 0.75 in. x 66 ft. (19mm x 20m)
- Other sizes available upon request.

Information provided is for reference only. Data in table represents average test results and are not to be used for specification purposes. The product user should make their own tests to determine the products suitability for the intended use.