



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: 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.