

Table of Contents

General Purpose Electrical Tapes (Containing Solvents)

All Weather Vinyl Electrical Tape

ETAWNL

Page 3



Cold and Sunlight Resistant Vinyl Electrical Tape

ETCWNL

Page 4



General Purpose Solvent Free Electrical Tape

Self Bonding Electrical Tape

(Suitable for submersed electrical connections)

ETSBR

Page 6



All Weather Solvent Free Electrical Tape

ETAWSFNL

Page 7



ETAWNL & ETCWNL Series

General Purpose Electrical Tapes Containing Solvents

Electrical tape is typically made from a flexible plastic material, such as polyvinyl chloride (PVC), which provides insulation and protection for electrical connections. Vinyl Electrical Tape is Water-resistant, suitable for indoor or outdoor applications where moisture exposure is minimal.

However, the water resistance of electrical tape depends on several factors, including:

- Type of Tape: Different types of electrical tape exhibit varying levels of water resistance. Vinyl electrical tape (PVC) is generally water-resistant, while rubber electrical tape offers higher water resistance due to its natural rubber content.
- Thickness: Thicker electrical tape provides better water resistance as it creates a more substantial barrier against moisture.
- Application: Proper application techniques, such as ensuring tight wrapping and overlapping, enhance the water resistance of electrical tape.

CAUTIONS:

#1 – These products contain Solvents and are **not intended or certified for use in potable water applications!** Do not use to wrap submersible pump cable connection for additional abrasion resistance or to secure wires to the drop pipe.

#2 - Electrical tape is not designed for submersion in water. Submerged connections require waterproof connectors or other specialized solutions. Heat Shrink Tubing provides a waterproof and durable seal for submersed electrical connections. NOTE: Solvent Free Self Bonding electrical tape and / or Heat Shrink Tubing are options for making electrical connections submersed in water.

**User Responsibility** - It is the sole responsibility of the system designer, end user and/or the Authority Having Jurisdiction (AHJ) over the project to verify the suitability of the product and materials used for the project. We suggest you investigate and verify that “Solvent Free” electrical tape meets all the applicable national and local water well construction and plumbing codes and is approved by the Authority Having Jurisdiction (AHJ) over the project to ensure it is approved for a potable water application before installation.

# ETAWNL SERIES - ALL WEATHER NO LEAD VINYL ELECTRICAL TAPE

**APPLICATIONS:**

- Boshart's all weather vinyl electrical tape is a general all purpose tape used for a wide range of applications including but not limited too; insulating motor lead connections and other material that conducts electricity, to make minor repairs to damaged wires and securing wire bundles.

**FEATURES:**

- PVC backing
- Excellent resistance to moisture, abrasion and corrosion.

**SPECIFICATIONS:**

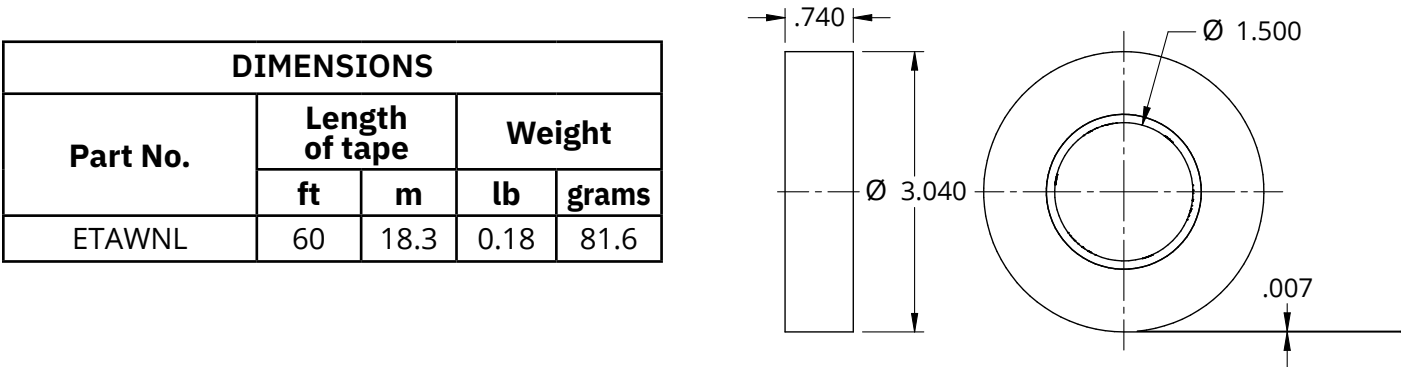
- PFAS free
- Lead Free
- Suitable for use up to 600V
- Break Tension (Tensile Strength): >15 lbf/in (>27 N/cm ≈ 7 kg/in)
- Peak Extension (Elongation): >100%

**CERTIFICATIONS:**

- RoHS Certified directive 2002/95/EC <0.1% Pb
- REACH compliant under Regulation (EC) No 1907-2006
- UL 570 Listed (E50292)
- CSA Approved C22.2 No. No.197-M1983 (LR31971)

**RATINGS:**

- Temperature Range: 19°F to 176°F (-7°C to 80°C)





ETAWSFNL Series  
General Purpose Solvent Free Electrical Tape

3M Company #175 General Purpose Electrical Tape is typically made from flexible polyvinyl chloride (PVC), which provides insulation and protection for electrical connections. This Electrical Tape is Water-resistant, suitable for indoor or outdoor applications where moisture exposure is minimal and does not contain hazardous solvents.

However, the water resistance of electrical tape depends on several factors, including:

- Type of Tape: Different types of electrical tape exhibit varying levels of water resistance. Vinyl electrical tape (PVC) is generally water-resistant, while rubber electrical tape offers higher water resistance due to its natural rubber content. Rubber electrical tape must still be wrapped with vinyl electrical tape to provide abrasion resistance.
- Thickness: Thicker electrical tape provides better water resistance as it creates a more substantial barrier against moisture.
- Application: Proper application techniques, such as ensuring tight wrapping and overlapping, enhance the water resistance of electrical tape.

CAUTIONS:

#1 – Solvent Free electrical tape is not designed for making a water-tight electrical connections submersed in water. The Solvent Free ETSBR Self Bonding rubber tape can produce a submersed water-tight connection, however due to the softness of self bonding rubber electrical tape it must still be wrapped with vinyl electrical tape to provide abrasion resistance.

**User Responsibility** - Although this 3M Company #175 Tape is “Solvent Free” electrical tape, it is **not certified for use in potable water applications!** It is the sole responsibility of the system designer, end user and/or the Authority Having Jurisdiction (AHJ) over the project to verify the suitability of the product and materials used for the project. We suggest you investigate and verify that “Solvent Free” electrical tape meets all the applicable national and local water well construction and plumbing codes and approved by the Authority Having Jurisdiction (AHJ) over the project to ensure it is approved for a potable water application before installation.

Use of this tape for wrapping a submersible pump cable connection with electrical tape for additional abrasion resistance or to secure wires to the drop pipe in contact with potable water is outside its intended use. One must verify that “Solvent Free” electrical tape meets all the applicable national and local water well construction and plumbing codes for the area in which it will be used and is approved by the Authority Having Jurisdiction (AHJ) over the project to ensure it is approved for the application.

ETSBR SERIES - SELF BONDING  
ELECTRICAL TAPE

APPLICATIONS:

- Self Bonding tape is a conformable, self-fusing rubber electrical insulating tape.
- Designed for low voltage electrical insulating and moisture sealing applications.
- Compatible with solid dielectric cable insulation.

NOTE: It is recommended that this tape be over wrapped for mechanical protection with two half lapped layers of electrical tape or cotton friction tape.

FEATURES:

- General purpose, highly conformable.
- Liner will not stick to the tape upon unwind.
- 3 year shelf life

SPECIFICATIONS:

- Suitable for use up to 600V
- Break Tension (Tensile Strength): 300 lbf/in (252 N/cm ≈136 kg/in)
- Peak Extension (Elongation): 700%

CERTIFICATIONS:

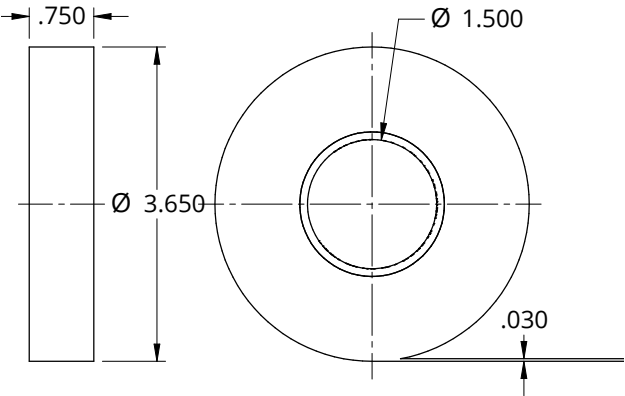
- RoHS Certified EU Directive 2011/65/EU
- REACH compliant under Regulation No 1907/2006
- UL Standard 570 Certified

RATINGS:

- Temperature Range: 14°F to 176°F (-10°C to 80°C)



DIMENSIONS				
Part No.	Length of tape		Weight	
	ft	m	lb	grams
ETSBR	22	6.4	0.276	125



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# ETAWSFNL SERIES - ALL WEATHER SOLVENT FREE NO LEAD ELECTRICAL TAPE

## APPLICATIONS:

- For use in industrial, commercial and residential environments where it is required to have a more sustainable, vinyl electrical tape with no VOCs (volatile organic compounds) and 100% solvent free manufacturing process.
- For cable jacket repair, use as mechanical protection when over wrapping rubber splicing,
- Best moisture reducing results are achieved when used as an overwrap in combination with a self bonding rubber splicing tape, ETSBR.
- Use to harness or bundle wires and cable where minimum bulk is required.

## FEATURES:

- Solvent Free, general purpose, black vinyl electrical tape.
- Flame retardant, cold resistant, and high performing electrical insulating tape, coated on one side with a non-corrosive, solvent free pressure-sensitive adhesive.

## SPECIFICATIONS:

- PFAS, PFOA, PFOS, CFCs, HCFCs; Not intentionally added
- Suitable for use up to 600V
- 5 year shelf life from date of manufacture when stored in humidity-controlled environment
- Break Tension (Tensile Strength): 15.4 lbf/in (27 N/cm  $\approx$  7.04 kg/in)
- Peak Extension (Elongation): 200%

## CERTIFICATIONS:

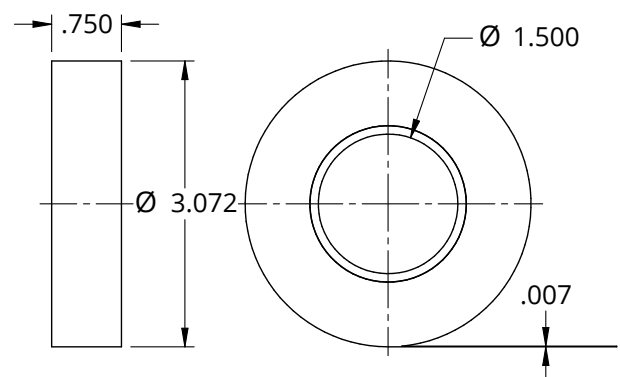
- RoHS Certified
- REACH compliant under Regulation No 1907/2006
- UL Standard 510 Listed
- CSA Approved C22.2 No.197



## RATINGS:

- 19°F (-7°C) to 194°F (90°C) on applications up to 1000V

DIMENSIONS				
Part No.	Length of tape		Weight	
	ft	m	lb	grams
ETAWSFNL	60	18.29	0.196	89



**BOSHART**  
INDUSTRIES

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adjustment, repair & operation, visit  
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