VULKO-WRAPTM INSULATING MATERIAL

BEST FOR: Cable Insulation & Terminal Splices • High Heat & Voltage • Outdoor Terminations

- Self-Vulcanizing Wrap High Dielectric Strength
- Temperature Rating (-60°F to +400°F)
- Reinforced with Glass Yarn Fiber RoHS Compliant



High Dielectric Strength

Can be used for all electrical connections.

Specially Compounded, Synthetic Silicone Elastomer

Resistant to oil, water, ozone, and many chemicals. Wide temperature range from -60° F to +400° F. **Vulcanizes Immediately**

Requires no heat - becomes fully bonded in 24 hours at room temperature. Remains pliable over time.

No Adhesives - Adheres Only to Itself

Easy to remove - leaves no residue. Covered fittings are immediately reusable.

Triangular Shape with Color Guideline

Allows even thickness for uniform high dielectric strength.

Non-Reinforced Product Stretches to Approximately 2-1/2 Times its Length

Conforms to irregular shapes and uneven surfaces. Can be used on parts which move or vibrate.

Width 1" to 1-1/2"

Covers more surface than ordinary tape with a single wrap.

Available in 40 MIL or 50 MIL Thickness

Extra thick design allows wrapping over sharp and irregular surfaces without tearing or puncturing.

OTHER APPLICATIONS

- Bus Bar Insulation
- Corrosive Areas
- Electroplating Danglers
- · Food Related Equipment
- HVAC Equipment
- Lift Truck Battery Cable Terminals
- Motor Leads · Temporary Repair of Low Pressure Air
- and Hydraulic Lines
- Transformer Tap Lead Insulation
- Washdown Areas

For Non-Reinforced

SPECIFICATIONS Meets U.S. Military Spec. MIL-I-46852, superseded by CID A-A-59163.

DIELECTRIC STRENGTH (Per ASTM D-149): 300 volts per mil of finished wrap thickness for 40 mil and 275 volts per mil of finished wrap thickness for 50 mil.

TENSILE/BREAK STRENGTH (Per ASTM D-412): 700 PSI Min.; 17 lbs. for 40 mil: 42 lbs. for 50 mil.

ELONGATION (Per ASTMD-412): 300% minimum.

SHELF LIFE Product should be stored at 70°F or less for maximum shelf life. Store in original packaging in clean dry environment when not in use.

PRODUCT LIMITATION Vulko-Wrap has a low abrasion and cut resistance. A protective overwrap is recommended for applications exposed to dragging or impact.

For Reinforced

SPECIFICATIONS Meets U.S. Military Spec. MIL-I-22444C.

DIELECTRIC STRENGTH (Per ASTM D-149) 500 volts per mil of finished wrap thickness for 40 mil.

ELONGATION (Per ASTMD-412) 15% minimum.

SHELF LIFE Product should be stored at 70°F or less for maximum shelf life. Store in original packaging in clean dry environment when not in use.

REINFORCEMENT Reinforcing braid embedded in center of material provides enhanced mechanical strength while still allowing the product to cover irregular shapes.

PART NO.	THICKNESS WIDTH & LGTH.	COLOR	DIELECTRIC STRENGTH	MEETS MIL SPEC	NO. OF WRAPS	FINISHED THICKNESS	VOLTAGE PROTECTION
98412	40 Mil	Yellow	300 Volts/Mil	MIL-I-46852	1	20 mil	5,500
Non-Reinforced	1 in. x 36 ft.				2	40 mil	11,000
_					3	60 mil	16,500
98512	50 Mil	Yellow	275 Volts/Mil	MIL-I-46852	1	25 mil	6,875
Non-Reinforced	1 in. x 36 ft.				2	50 mil	13,750
					3	75 mil	20,625
98412BK	40 Mil	Black	300 Volts/Mil	MIL-I-46852	1	20 mil	5,500
Non-Reinforced	1 in. x 36 ft.				2	40 mil	11,000
					3	60 mil	16,500
98512BK	50 Mil	Black	275 Volts/Mil	MIL-I-46852	1	25 mil	6,875
Non-Reinforced	1 ¹ / ₂ in. x 36 ft.				2	50 mil	13,750
	2				3	75 mil	20,625
18412	40 Mil	Black	500 Volts/Mil	MIL-I-22444C	1	36 mil	18,000
Reinforced	1 in. x 36 ft.				2	72 mil	36,000
					3	108 mil	54,000

ORDERING INFORMATION

Assumes 50% overlap and stretching the wrap 2.5 times. Assumes 25% overlap and stretching the wrap 10%

GENERAL INSTRUCTIONS

1. Measure and cut the desired length of Vulko-Wrap from the roll and remove the mylar separator. Take precaution to avoid having the wrap fold onto itself.

2. Hold one end of the Vulko-Wrap on the termination to be covered. Stretch and wrap the Vulko-WrapTM around the termination, overlapping it approximately 50%.

3. Continue to stretch and wrap while applying until the entire termination is encapsulated. Overlap the tail end of the Vulko-Wrap back over itself.

4. Apply a second layer of Vulko-Wrap over the entire surface of the first layer. This second layer (and subsequent layers) does not require any stretching. Continue to wrap until desired or required thickness is achieved.

SPLICE CONFIGURATIONS

In-Line Splice Connections

1. Begin wrapping the first layer of Vulko-Wrap onto the termination by holding the lead end on the surface and stretching the tape around until it overlaps itself approximately 50%. Continue to wrap the termination until the Vulko-Wrap extends 1.5 inches in each direction beyond the termination (See **FIGURE 1**).

Overlap the tail end of the Vulko-Wrap back over itself. The first layer should have a maximum stretch of < 75% of its original width.

2. Apply a second layer (and subsequent layers) over the entire surface of the first layer. The second and subsequent layers do not require any stretching. Continue to wrap until the desired or required thickness is achieved.

NOTE: If you have a connection or splice with irregular surfaces, you can use Vulko-Wrap to fill in any voids or cavity. You can cut pieces of Vulko-Wrap and create "pillows' by layering them and pushing them into the voids or cavities. You can stretch and push the Vulko-Wrap into the void or cavity using your finger or thumb to apply pressure.

"Y" and "V" Splice Connections

1. Use the Vulko-Wrap to fill in and/or smooth out the voids existing around the non-insulated terminal connection (the "V" gaps existing in the "Y" and "V" connections). Carefully wrap Vulko-Wrap in a crossing pattern around these gaps at the non-insulated terminals. Use a maximum stretch (< 75% of original width) when applying the Vulko-Wrap around the gaps at the non-insulated terminal connections.

2. After completing the step above, start to wrap the Vulko-Wrap around the "Y" or "V" splice making sure to meet the minimum 1.5 inch clearance as shown in **FIGURES 2a**, **2b** or **3**. Again, the first layer should It is recommended that you apply at least two (2) layers of Vulko-Wrap[™] over any surface you are covering. The number of layers required is dependent upon the voltage potential of the termination the Vulko-Wrap is being applied over. See **ORDER-ING INFORMATION** on front.

Apply the first layer of Vulko-Wrap with a maximum stretch (< 75% of original width). Apply the second layer with minimal or zero stretch of the wrap.

Reinforced Vulko-Wrap can be used as a pre-wrap on sharp edges, or for the total wrap.

3. After the connection has been completely wrapped, a layer of abrasion protection must be added like TPC 18412 or a vinyl electrical tape.



FIGURE 1 In-Line Splice

have a maximum stretch of < 75% of its original width. Be sure to overlap the tail end of the Vulko-Wrap back over itself.

3. Apply a second layer (and subsequent layers) over the entire surface of the first layer. The second and subsequent layers do not require any stretching. Continue to wrap until the desired or required thickness is achieved.

4. After the connection has been completely wrapped, a layer of abrasion protection must be added like TPC 18412 or a vinyl electrical tape.



A Premier Farnell Company

0

7061 E. PLEASANT VALLEY RD INDEPENDENCE, OHIO 44131



WARRANTY AND DISCLAIMER: Seller makes no warranties, express or implied, with respect to this product, and seller disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, seller will not be responsible for any consequential, incidental or indirect damages (including, but not limited to, any loss of profit) from any cause whatsoever. TPC951 (7/09) PRINTED IN U.S.A. All rights reserved. No portion of this publication, whether in whole or in part, can be reproduced without the express written consent of Premier Farnell, LLC ©Copyright 2009 by Premier Farnell, LLC ®Registered Trademark of Premier Farnell, LLC ^{Marce}