

# Insulating and Splicing Tapes

## Scotch® Linerless Rubber Splicing Tape 130C

Scotch Electrical Tape 130C is a highly conformable, linerless Ethylene Propylene Rubber (EPR), high-voltage insulating tape that provides excellent thermal dissipation of splice heat. Scotch 130C meets industry specifications and has excellent physical and electrical properties, which helps provide immediate moisture seal and void-free buildups. Scotch 130C is rated up to 194°F (90°C) continuous operating temperatures and short-term 266°F (130°C) overload service. This tape should be applied like any rubber tape—that is, the side of the tape wrapped inside the roll should be applied outside on the splice (tacky side up). This will help prevent the roll from getting progressively further away from the work area.



Scotch® Linerless Rubber Splicing Tape 130C

(EPR)-based, high-voltage splicing tape. Scotch Electrical Tape 13 elongates easily to conform to irregular shapes and retains its conductivity when stretched.

## Scotch® Electrical Shielding Tape 24

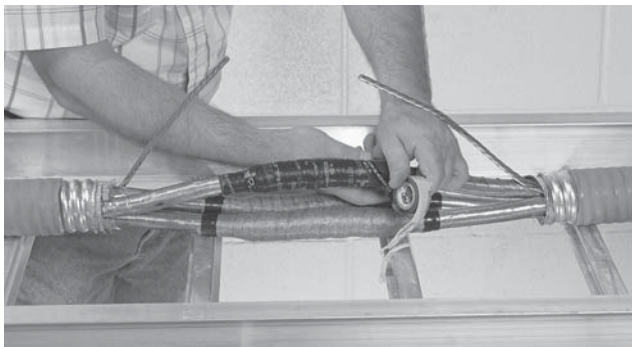
Scotch Electrical Shielding Tape 24 is an all-metal, flat, open-weave shielding braid that is compatible with power cable insulations and all high-voltage splicing and terminating materials. Scotch Electrical Shielding Tape 24 elongates easily to conform and is temperature stable.

## Scotch® Electrical Grounding Braid 25

Scotch Electrical Grounding Braid 25 is a flat, all-metal woven electrical grounding braid that is compatible with all power cable insulations and high-voltage splicing and terminating materials. The Scotch Electrical Grounding Braid 25 is conformable and temperature stable, and has a high carrying current capacity approximately that of #6 AWG wire.

## Scotch® Self-Fusing Silicone Rubber Electrical Tape 70

Scotch Self-Fusing Silicone Rubber Electrical Tape 70 is a high-temperature, arc-and track-resistant tape composed of self-fusing, inorganic silicone rubber with an easy-tear and easy-strip liner. Scotch Self-Fusing Silicone Rubber Electrical Tape 70 can be used as base tape layer to cleanly re-enter connections.



Scotch® Rubber Splicing Tape 23

## Scotch® Rubber Splicing Tape 23

Scotch Rubber Splicing Tape 23 is a highly conformable, self-fusing Ethylene Propylene Rubber (EPR)-based, high-insulating voltage tape. Scotch 23 has a “snakeskin” liner that is easily removed as the tape is applied.

## Scotch® Electrical Semi-Conducting Tape 13

Scotch Electrical Semi-Conducting Tape 13 is a highly conformable, semi-conducting Ethylene Propylene Rubber

## Scotch® Self-Fusing, Silicone Heavy Duty Triangular Electrical Tape 70HDT

Scotch® Self-Fusing, Silicone Rubber Heavy Duty Triangular Electrical Tape 70HDT is a high-temperature, arc-and-track resistant tape composed of self-fusing, silicone rubber with an easy-tear and easy-strip liner. This product is just like the Scotch® Self-Fusing Silicone Rubber Electrical Tape 70HDT, but has a triangular tapered edge profile (thicker in the middle) and a blue guideline to make half-lapping application easier.

## Scotch® Fire and Electric Arc Proofing Tape 77

Scotch Fire and Electric Arc Proofing Tape 77 is designed to protect all types of electrical cables when exposed to potential failures in an adjacent cable. Its unique formulation expands in fire to form a thick char buildup between the flame and the cable. The resulting firewall acts as a heat shield and flame barrier, thus protecting the nearby cables and accessories.

## 3M™ Linerless Splicing Compound 2242



3M Linerless Splicing Compound 2242 is a multipurpose rubber insulating tape designed for use in splicing and terminating wires and cables rated up to 194°F (90°C). 3M Linerless Splicing Compound 2242 is a highly conformable, linerless Ethylene Propylene Rubber (EPR)-based tape.

## 3M™ Scotchfil™ Electrical Insulation Putty

3M Scotchfil Putty is an electrical grade, rubber-based, elastic-type putty in tape form.



It can be wrapped, stretched or molded around irregular shapes for quick, smooth insulation build-up. Use Scotchfil putty to insulate connections up to 600 volts and to round out high-voltage connections to gear, smooth bus bar irregularities, and make a moisture seal at ground wire exits in high-voltage splices. UL Recognized Component listing for 176°F (80°C) when used in combination with Super 33+ or 88 tapes (Guide OCDT2, File E59951).

## Scotch® Electrical Insulating Varnished Cambric Tape 2510 and 2520

Scotch Electrical Insulating Varnished Cambric Tape 2510 and 2520 are cotton



cambric fabric tapes, oil primed and coated with high-grade yellow electrical insulating varnish for quality electrical insulating. Scotch 2510/2520 are temperature stable tape products that allow for clean re-entry of electrical connections. Scotch 2510 has no adhesive and Scotch 2520 has a pressure-sensitive adhesive.



















### LINERLESS RUBBER TAPES

| FEATURES                      | ADVANTAGES                 | BENEFITS  |
|-------------------------------|----------------------------|---|
| No liner                      | Makes job easier           | Saves time, lower installed cost                    |
| Excellent thermal dissipation | More stable splices        | Provides longer cable life, reduces life cycle cost |
| Highly conformable            | High quality moisture seal | Eliminates call-backs                               |

### PRODUCT REFERRAL GENERATOR

|                             |     |
|-----------------------------|-----|
| Cable Cleaning .....        | 410 |
| Insulating                  |     |
| – Jacketing Tubes .....     | 384 |
| Connecting                  |     |
| – Lugs and Connectors ..... | 147 |

## Specifications for Insulating and Splicing Tapes

| Product Name  | Product Description   | Tape Thickness            | U.V. Resistance | Temp. Rating  | Typical Applications   | Specs./ Certifications and Listings                   | U.S. Made  |
|---|---|---------------------------|-----------------|---|--|---|--|
|  Scotch® Linerless Rubber Splicing Tape 130C                                       | High voltage insulating; thermally conductive; self-bonding.  | 30 mil                    | No*             | continuous: 194°F (90°C)<br>short-term: 266°F (130°C) | Primary electrical insulation for splicing all solid dielectric cables through 69kV. | ASTM D-4388 Type I, II, and III<br>HH-I-553C<br>RoHS  |   |
|  Scotch® Electrical Semiconducting Tape 13   | Rubber tape, semi-conductive. Compatible with cable semi-conducting jackets.  | 30 mil                    | No*             | continuous: 194°F (90°C)<br>short-term: 266°F (130°C) | Electrically round high voltage connections. Provide cable shield continuation.      | ASTM D-4388 Type IV<br>RoHS                           |  |
|  Scotch® Rubber Splicing Tape 23   | High and low voltage insulating, self-fusing rubber tape.   | 30 mil                    | N/A             | continuous: 194°F (90°C)<br>short-term: 266°F (130°C) | Primary electrical insulation for splicing all solid dielectric cables through 69kV. | HH-I-3825B<br>ASTM D-4388 Type I, II, and III<br>RoHS |  |
|  Scotch® Electrical Shielding Tape 24  | All metal open weave shielding braid, conformable, temperature stable.  | N/A                       | N/A             | N/A   | Continue electrostatic shielding across splice.                                      | RoHS  |  |
|  Scotch® Electrical Grounding Braid 25   | All metal woven braid; high current carrying capacity of 6 AWG wire; solderable.  | N/A                       | N/A             | N/A   | Conformable ground braid for splices and terminations.                               | RoHS  |  |
|  Scotch® Self-Fusing Silicone Rubber Electrical Tape 70                          | Arc and track resistant; self-fusing, long lasting silicone rubber.   | 12 mil                    | Excellent       | 356°F (180°C)   | Protective overwrap for terminating high voltage cables.                             | RoHS  |  |
|  Scotch® Heavy Duty Triangular Self-Fusing Silicone Rubber Electrical Tape 70HDT | Arc and track resistant; self-fusing, long lasting silicone rubber, triangular tapered edge profile and a blue guideline. | 20 mil center, 8 mil edge | Excellent       | 356°F (180°C)   | Protective overwrap for terminating high voltage cables.                             | RoHS  |  |
|  Scotch® Fire and Electric Arc Proofing Tape 77                                  | Protects cable until limiting devices can interrupt faulted current.  | 30 mil                    | Excellent       | N/A   | Use on high-energy cables that are within 18" of other high energy cables.           | RoHS  |  |
|  3M™ Linerless Splicing Compound 2242  | General purpose rubber insulating tape.   | 30 mil                    | No*             | continuous: 194°F (90°C)<br>short-term: 266°F (130°C) | All-voltage splicing, jacketing, and general insulating.                             | HH-I-553C<br>ASTM D-4388 Type I, II, and III<br>RoHS  |   |
|  3M Scotchfil™ Electrical Insulation Putty                                       | Black, self-fusing, insulating putty in tape form.  | 125 mil                   | No*             | 176°F (80°C)  | Insulate connections up to 600V. Smooth bus bar irregularities.                      | RoHS  | <br> |
|  Scotch® Varnished Cambric Tape 2510 and 2520                                    | Yellow, varnish coated cotton cloth 2510: no adhesive; 2520: adhesive.  | 7 mil<br>8 mil            | No*             | 220°F (105°C)   | Insulate bus bars, motor leads (for re-entry), service drop connections.             | RoHS  |   |
|  3M™ Temflex™ Rubber Splicing Tape 2155  | Replaces 2150. Economical low voltage rubber insulating tape; self-fusing.  | 30 mil                    | No*             | 176°F (80°C)  | Insulating wire splices, split bolt connections, and motor leads up to 600V.         | RoHS  |   |

\* For best UV protection, overwrap with Scotch® Super 33+™

## Ordering Information for Insulating and Splicing Tapes

| Product Number   | UPC (054007-) | Size                          | Inner Unit Pack | Case Qty. |
|--|---------------|-------------------------------|-----------------|-----------|
| <b>Scotch® Linerless Rubber Splicing Tape 130C, black</b>                        |               |                               |                 |           |
| 130C   | 41717         | 3/4" x 30' (19 mm x 9,1 m)    | 1/box           | 24 rolls  |
| 130C   | 41751         | 1" x 10' (25 mm x 3 m)        | N/A             | 24 rolls  |
| 130C   | 41752         | 1" x 15' (25 mm x 4,6 m)      | 1/box           | 24 rolls  |
| 130C   | 41753         | 1" x 30' (25 mm x 9,1 m)      | 1/box           | 24 rolls  |
| 130C   | 41718         | 1-1/2" x 30' (38 mm x 9,1 m)  | 1/box           | 12 rolls  |
| 130C   | 41754         | 2" x 30' (51 mm x 9,1 m)      | 1/box           | 12 rolls  |
| <b>Scotch® Electrical Semi-Conducting Tape 13</b>                                |               |                               |                 |           |
| 13   | 15017         | 3/4" x 15' (19 mm x 4,57 m)   | 1/box, 10/ctn   | 50 rolls  |
| <b>Scotch® Rubber Splicing Tape 23, black</b>                                    |               |                               |                 |           |
| 23   | 15025         | 3/4" x 30' (19 mm x 9,1 m)    | 1/box, 50/ctn   | 50 rolls  |
| 23   | 13061         | 1" x 20' (25 mm x 6,1 m)      | N/A             | 100 rolls |
| 23   | 00059         | 1" x 30' (25 mm x 9,1 m)      | 1/box, 50/ctn   | 50 rolls  |
| 23   | 11214         | 1-1/2" x 30' (38 mm x 9,1 m)  | 1/box, 10/ctn   | 50 rolls  |
| 23   | 15033         | 2" x 30' (51 mm x 9,1 m)      | 1/box, 10/ctn   | 50 rolls  |
| Note: Other widths and lengths available upon request.                           |               |                               |                 |           |
| <b>Scotch® Electrical Shielding Tape 24</b>                                      |               |                               |                 |           |
| 24   | 15058         | 1" x 100' (25 mm x 30,5 m)    | 1/box, 10/ctn   | 10 rolls  |
| 24   | 15041         | 1" x 15' (25 mm x 4,6 m)      | 1/box, 10/ctn   | 50 rolls  |
| 24   | 57289*        | 2" x 10' (51 mm x 3 m)        | 20/ctn          | 20 rolls  |
| <b>Scotch® Electrical Grounding Braid 25</b>                                     |               |                               |                 |           |
|  | 11602         | 1/2" x 15' (13 mm x 4,6 m)    | 1/box           | 1 roll    |
| <b>Scotch® Self-Fusing Silicone Rubber Electrical Tape 70, gray</b>              |               |                               |                 |           |
|  | 15603         | 1" x 30' (25 mm x 9,1 m)      | 1/box, 10/ctn   | 50 rolls  |
| <b>Scotch® Self-Fusing, Silicone Heavy Duty Triangular Electrical Tape 70HDT</b> |               |                               |                 |           |
|  | 56030*        | 1" x 30' (25.4 mm x 9,1 m)    | 1/box           | 50 rolls  |
| <b>Scotch® Fire and Electric Arc Proofing Tape 77, black</b>                     |               |                               |                 |           |
| 77   | 42007         | 1-1/2" x 20' (38 mm x 6,1 m)  | 1/bag           | 10 rolls  |
| 77   | 42006         | 3" x 20' (76 mm x 6,1 m)      | 1/bag           | 10 rolls  |
| 77W  | 98374**       | 1-1/2" x 20' (38 mm x 6,1 m)  | 1/bag           | 10 rolls  |
| 77W  | 98375**       | 3" x 20' (76 mm x 6,1 m)      | 1/bag           | 10 rolls  |
| <b>3M™ Linerless Splicing Compound 2242, black</b>                               |               |                               |                 |           |
| 2242   | 06165         | 3/4" x 15' (19 mm x 4,6 m)    | 1/bag           | 24 rolls  |
| 2242   | 41323         | 1-1/2" x 15' (38 mm x 4,6 m)  | 1/bag           | 12 rolls  |
| 2242   | 43251         | 2" x 15' (51 mm x 4,6 m)      | N/A             | 8 rolls   |
| <b>3M™ Scotchfil™ Electrical Insulation Putty</b>                                |               |                               |                 |           |
|  | 41750         | 1-1/2" x 60" (38 mm x 1,53 m) | 4/ctn           | 12 rolls  |

\*UPC prefix 051128-

\*\*UPC prefix 051138-

## Ordering Information for Insulating and Splicing Tapes

| Product Number                                       | UPC (054007-) | Size                             | Inner Unit Pack | Case Qty. |
|--|---------------|----------------------------------|-----------------|-----------|
| <b>Scotch® Varnished Cambric Tape 2510, yellow</b>   |               |                                  |                 |           |
| 2510   | 41720         | 3/4" x 60' (19 mm x 18,3 m)      | 1/box, 10/ctn   | 20 rolls  |
| 2510   | 10661         | 3/4" x 36 yd. (19 mm x 33 m)     | N/A             | 48 rolls  |
| 2510   | 10687         | 1" x 36 yd. (25 mm x 33 m)       | N/A             | 36 rolls  |
| 2510   | 10703         | 1-1/2" x 36 yd. (38 mm x 33 m)   | N/A             | 24 rolls  |
| 2510   | 10711         | 2" x 36 yd. (51 mm x 33 m)       | N/A             | 16 rolls  |
| 2510   | 15751         | 36" x 25 yd. (914,4 mm x 22,9 m) | N/A             | 1 roll    |
| <b>Scotch® Varnished Cambric Tape 2520, yellow</b>   |               |                                  |                 |           |
| 2520   | 04836         | 3/4" x 60' (19 mm x 18,3 m)      | 1/box, 10/ctn   | 20 rolls  |
| 2520   | 04835         | 3/4" x 36 yd. (19 mm x 33 m)     | N/A             | 48 rolls  |
| 2520   | 04833         | 1" x 36 yd. (25 mm x 33 m)       | N/A             | 36 rolls  |
| 2520   | 04832         | 1-1/2" x 36 yd. (38 mm x 33 m)   | N/A             | 24 rolls  |
| 2520   | 04834         | 2" x 36 yd. (51 mm x 33 m)       | N/A             | 16 rolls  |
| <b>3M™ Temflex™ Rubber Splicing Tape 2155, black</b> |               |                                  |                 |           |
| 2155 (replaces 2150)                                 | 50348         | 3/4" x 22' (19 mm x 6,7 m)       | N/A             | 50 rolls  |
| 2155 (replaces 2150)                                 | 50349         | 1-1/2" x 22' (38 mm x 6,7 m)     | N/A             | 45 rolls  |

Conforms  
to any  
situation

