

# Insulating and Splicing Tapes

## Scotch™ 130C Linerless Rubber Splicing Tape

Scotch 130C Electrical Tape 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 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.



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### Features — Benefits

#### Linerless Rubber Tapes

No liner	Easier handling, which offers lower installed cost
Excellent thermal dissipation	More stable splices that provide longer cable life
Highly comfortable	Excellent moisture seal which eliminates call-backs and gives higher quality installation

## Scotch 13 Electrical Semi-Conducting Tape

Scotch 13 Electrical Tape is a highly conformable, semi-conducting Ethylene Propylene Rubber (EPR) based high-voltage splicing tape. Scotch 13 Electrical Tape elongates easily to conform to irregular shapes and retains its conductivity when stretched.

## Scotch 23 Rubber Splicing Tape



Scotch 23 Electrical Tape 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.

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## Scotch 24 Electrical Shielding Tape

Scotch 24 Electrical Shielding Tape 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 24 Electrical Tape elongates easily to conform and is temperature stable.

## Scotch 25 Electrical Grounding Braid

Scotch 25 Electrical Grounding Braid 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 25 Electrical Grounding Braid is conformable and temperature stable and has a high carrying current capacity approximately that of #6 AWG wire.

## Scotch 70 Self-Fusing Silicone Rubber Electrical Tape

Scotch 70 Silicone Rubber Electrical Tape is a high-temperature, arc-and track-resistant tape composed of self-fusing, inorganic silicone rubber with an easy-tear and easy-strip liner.



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## Scotch™ 77 Fire-Retardant Electric Arc Proofing Tape

Scotch 77 Fire-Retardant Electric Arc Proofing Tape is designed to protect all types of electrical cables where exposed to potential failures of other high voltage cables or exposed to other high energy cables. 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 cables and accessories.

## 3M™ 2242 Linerless Electrical Rubber Tape

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





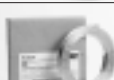







## Scotchfil™ Electrical Insulation Putty

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 2510/ Scotch 2520 Electrical Insulating Varnished Cambric Tapes

Scotch 2510/2520 Tapes are bias 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 allowing for clean reentry of electrical connections. Scotch 2510 has no adhesive and Scotch 2520 has a natural rubber based adhesive.

## Specifications for Insulating and Splicing Tapes

	Product Number	Product Description	Tape Thickness	U.V. Resistance	Temperature Rating	Typical Applications	Specifications/Certifications and Listings
	Scotch 130C Linerless Rubber Splicing Tape	High voltage insulating; thermally conductive; self-bonding.	30 mil	No*	continuous: 194°F (90°C) short-term: 266°F (130°C)	Primary electrical insulation for splicing all solid dielectric cables through 69kV.	ASTM D-4388 Type I, II, & III
	Scotch 13 Semiconducting Tape	Rubber tape, Semi conductive. Compatible with cable semi-conducting jackets.	30 mil	No*	continuous: 194°F (90°C) short term: 266°F (130°C)	Electrically round high voltage connections. Provide cable shield continuation.	ASTM D-4388 Type IV
	Scotch 23 Rubber Tape	High & low voltage insulating, self-fusing rubber tape.	30 mil	N/A	continuous: 194°F (90°C) short term: 266°F (130°C)	Primary electrical insulation for splicing all solid dielectric cables through 69kV.	HHI-I-3825B ASTM D-4388 Type I, II, & III
	Scotch 24 Shielding Tape	All metal open weave shielding braid, conformable, temperature stable.	N/A	N/A	N/A	Continue electrostatic shielding across splice.	N/A
	Scotch 25 Grounding Braid	All metal woven braid; high current carrying capacity of 6 AWG wire; solderable.	N/A	N/A	N/A	Conformable ground braid for splices & terminations.	N/A
	Scotch 70 Self-Fusing Silicone Rubber Tape	Arc & track resistant; self fusing, long lasting silicone rubber.	12 mil	Excellent	356°F (180°C)	Protective overwrap for terminating high voltage cables.	N/A
	Scotch 77 Electric Arc Proofing Tape	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.	N/A
	3M 2242 Linerless Splicing Compound	General purpose rubber insulating tape.	30 mil	No*	continuous: 194°F (90°C) short-term: 266°F (130°C)	All-voltage splicing, jacketing, & general insulating.	HH-I-553C ASTM D-4388 Type I, II, & III
	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.	
	Scotch 2510 and 2520 Varnished Cambric Tapes	Yellow, varnish coated cotton cloth 2510: no adhesive; 2520: adhesive.	2510 is 7 mil 2520 is 9 mil	No*	220°F (105°C)	Insulate bus bars, motor leads (for re-entry), service drop connections.	N/A
	Temflex™ 2150 Rubber Splicing Tape	Economical low voltage rubber insulating tape; self-fusing.	30 mil	No*	176°F (80°C)	Insulating wire splices, split bolt connections, & motor leads up to 600V.	N/A

\*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™ 130C Linerless Rubber Splicing Tape</b>				
130C	41717	3/4" x 30' (19 mm x 9,1 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 13 Electrical Semiconducting Tape</b>				
13	15017	3/4" x 15' (19 mm x 4,57 m)	1/box, 10/ctn	50 rolls
<b>Scotch 23 Rubber Splicing Tape</b>				
23	15025	3/4" x 30' (19 mm x 9,1 m)	1/box	50 rolls
23	00059	1" x 30' (25 mm x 9,1 m)	1/box	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 24 Electrical Shielding Tape</b>				
24	15058	1" x 100' (25 mm x 30,5 m)	1/box, 10/ctn	50 rolls
24	15041	1" x 15' (25 mm x 4,6 m)	1/box, 10/ctn	50 rolls
<b>Scotch 25 Electrical Grounding Braid</b>				
25	11602	1/2" x 15' (13 mm x 4,6 m)	1/box	1 roll
<b>Scotch 70 Self-Fusing Silicone Rubber Electrical Tape</b>				
70	15603	1" x 30' (25 mm x 9,1 m)	1/box, 10/ctn	50 rolls
<b>Scotch 77 Fire and Electric Arc Proofing Tape</b>				
77	12373	1 1/2" x 20' (38 mm x 6,1 m)	1/bag	10 rolls
77	12382	3" x 20' (76 mm x 6,1 m)	1/bag	10 rolls
<b>3M™ 2242 Linerless Electrical Rubber Tape</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
<b>Scotchfil™ Electrical Insulation Putty</b>				
	15140	1 1/2" x 60" (38 mm x 1,53 m)	1/box, 10/ctn	50 rolls
<b>Scotch 2510 Varnished cambric Tape</b>				
2510	41720	3/4" x 60' (19 mm x 18,3 m)	1/box	20 rolls
2510	10661	3/4" x 36 yd (19 mm x 33 m)	bulk	48 rolls
2510	10687	1" x 36 yd (25 mm x 33 m)	bulk	36 rolls
2510	10703	1 1/2" x 36 yd (38 mm x 33 m)	bulk	24 rolls
2510	10711	2" x 36 yd (51 mm x 33 m)	bulk	16 rolls
<b>Scotch 2520 Varnished Cambric Tape</b>				
2520	41721	3/4" x 60' (19 mm x 18,3 m)	1/box	20 rolls
2520	10729	3/4" x 36 yd (19 mm x 33 m)	bulk	48 rolls
2520	10737	1" x 36 yd (25 mm x 33 m)	bulk	36 rolls
2520	10745	1 1/2" x 36 yd (38 mm x 33 m)	bulk	24 rolls
2520	16737	2" x 36 yd (51 mm x 33 m)	bulk	16 rolls
<b>Temflex™ 2150 Rubber Splicing Tape</b>				
2150	50348	3/4" x 22' (19 mm x 6,7 m)	bulk	50 rolls
2150	50349	1 1/2" x 22' (38 mm x 6,7 m)	bulk	50 rolls