



Varnished Cambric Tapes 2510 and 2520

Data Sheet

Notice: New straight weave cambric!
Please review the Scotch® Varnished Cambric Tapes 2510 and 2520 Data Sheet carefully to ensure this product meets your application requirements.

Product Description

Scotch® Varnished Cambric Tapes are made from straight-cut woven cotton cambric fabric. The fabric is oil primed and coated with a high-grade yellow electrical insulating varnish. Varnished cambric tapes are flexible, electrically insulating and moisture resistant with a smooth finish. 2510 tape is yellow, non-adhesive coated and 7 mils thick. 2520 tape is yellow with a pressure-sensitive adhesive and 8 mils thick. They are designed to perform continuously in temperatures up to 105°C (220°F) with excellent resistance to abrasion, puncture and cut-through. The adhesive on 2520 tape holds the tape in position after application.

- Excellent dielectric strength.
- Electrical properties are stable up to 105°C.
- High puncture and cut-through resistance.
- Varnish cambric tapes are rated for Class A (105°C).
- Non-corrosive adhesive on 2520 tape. Adhesive holds film in position until the jacket is applied.

Applications

For insulating joints requiring rapid and clean re-entry such as motor lead and service drop connections, heavy split-bolts in raceways and bus bar insulating. Use in areas where mechanical protection and puncture resistance is critical.

Note: *Scotch Varnished Cambric Tapes 2510 and 2520 should not be used as primary insulation for splicing and terminating PILC Cable.*

Contact your 3M Electrical Markets Division Representative for product recommendation for splicing and terminating PILC Cable.

Typical Data/Physical and Electrical Properties

	2510	2520
Color	Yellow	Yellow
Surface Finish	Dry	Dry with adhesive
Thickness (ASTM-D-374)	7 mils	8 mils
Tensile Strength (ASTM-D-295)	50 lbs./in.	50 lbs./in.
Adhesion to Steel (ASTM-D1000)	-	13 oz./in.
Adhesion to Backing (ASTM-D1000)	-	8 oz./in.
Dielectric Strength (ASTM-D-295)	800 V/mil	800 V/mil
Thermal Stability	Class A	Class A
Solvent Resistance	Excellent	Excellent
Oil Resistance	Excellent	Excellent

Note: *These are typical values and should not be used for specification purposes.*

Product Specification

Scotch Varnished Cambric Tapes shall be based on straight-cut woven cotton cambric fabric. It shall be coated to a specified thickness, with high grade yellow electrical insulating varnish producing a visibly smooth surface.

The surface shall be free from peeling, blisters, contamination and other imperfections. Finished product thickness shall be controlled to plus or minus 1 mil. Tapes must unwind freely (except adhesive – backed) with no binding between tape layers.

Yellow, dry-finish varnished cambric tape shall be wax-dipped to preserve electrical properties.

Installation Techniques

Apply Scotch® Varnished Cambric Tape 2510 and 2520 in half-lapped layers with sufficient tension to conform to the connection surface. Apply a minimum of two half-lapped layers for mechanical protection.

Jacket all varnished cambric applications with Scotch rubber and vinyl splicing tapes to provide a contamination and moisture seal.

Shelf Life

Scotch Varnished Cambric Tapes 2510 and 2520 have a 5-year shelf life (from date of manufacture) when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40% to 50% relative humidity. Proper stock rotation is recommended.

Availability

Scotch Varnished Cambric Tapes 2510 and 2520 are available from your local 3M authorized distributor in the following standard roll sizes:

2510	2520
3/4" x 60 feet	3/4" x 60 feet
3/4" x 36 yards	3/4" x 36 yards
1" x 36 yards	1" x 36 yards
1 1/2" x 36 yards	1 1/2" x 36 yards
2" x 36 yards	2" x 36 yards
36" x 25 yards	

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- Excellent dielectric strength.
- Electrical properties are stable up to 105°C.
- High puncture and cut-through resistance.
- Varnish cambric tapes are rated for Class A (105°C).
- Non-corrosive adhesive on 2520 tape. Adhesive holds film in position until the jacket is applied.

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