

Scotch® Varnished Cambric Tapes 2510 and 2520

Data Sheet

June 2016

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. Scotch® Varnished Cambric Tape 2510 is yellow, non-adhesive coated and 7 mils thick. Scotch® Varnished Cambric Tape 2520 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 Scotch® Varnished Cambric Tape 2520 holds the tape in position after application.

- Excellent dielectric strength.
- Electrical properties are stable up to 105°C.
- High puncture and cut-through resistance.
- Varnished cambric tapes are rated for Class A (105°C).
- Non-corrosive adhesive on Scotch® Varnished Cambric Tape 2520. 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

Specifications

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.

Scotch® Varnished Cambric Tapes 2510 and 2520

Typical Physical and Electrical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Physical Properties (Test Method)	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 ils./in.	50 ils./in.
Adhesion to Steel (ASTM D 1000)	-	13 oz./in.
Adhesion to Backing (ASTM D 1000)	-	8 oz./in.
Thermal Stability	Class A	Class A
Solvent Resistance	Excellent	Excellent
Oil Resistance	Excellent	Excellent

Electrical Properties (Test Method)	2510	2510
Dielectric strength (ASTM D 295)	800 V/mil	800 V/mil

Shelf Life & Storage

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. Available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.

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Electrical Markets Division
6801 River Place Blvd.
Austin, TX 78726-9000
800.245.3573
FAX: 800.245.0329
www.3M.com/electrical

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