3M

Temflex[TM] 165
Vinyl Electrical Tape

1. Product Description

Temflex[TM] 165 Vinyl Electrical Tape is a good quality, 0,152 mm thick, multi-purpose vinyl insulating tape. It has a great resistance to moisture and varying weather conditions. It is a polyvinyl chloride (PVC) that is flame-retardant and comfortable. 3M Temflex 165 Tape provides great mechanical protection with minimum bulk. It is UL listed, CSA certified, VDE certified, approved and classified as Type 5 according to IEC 60454-3-1-5/F-PVCP/90.

- 100% solvent-free manufacturing process with lower emissions[*]
- More sustainable, high-quality GU vinyl electrical tapes with no VOCs (Volatile Organic Compounds)[*]

2. Applications

- Suitable for moderate indoor & weather protected outdoor uses
- For residential, commercial and manufacturing (OEM) environments
- Color-coding for phase identification, wire marking and safety
- Electrical insulation for wire and cable splices rated up to 600 volts
- Harnessing and bundling of wires and cables
- Wire pulling and fishing

3. Typical Properties

Physical Properties	Value
Temperature Rating[1] UL 510 Temperature Rating[2] IEC60454-3-1 Temperature Type 5 (IEC 60454-3-1-5/F-PVC P90)	-10°C up to 80 °C 0 °C up to 90 °C
Colour	Black, white, yellow, orange, red, green, blue, purple, grey, brown,
Adhesive	Rubber-based
Thickness	0,152 mm (+/- 0,015 mm)
Adhesion to Steel[2] (Minimal)	2,0 N/10mm
Adhesion to Backing[2] (Minimal)	2,0 N/10 mm
Breaking Strength[2] (Minimal)	23N/10mm
Ultimate Elongation[2] (Minimal)	200%
Flammability, [1], UL 510	pass
Low Temperature properties at -10 °C[1]	pass

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Reference: AABBDD66257_EN_B

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Issue date   01.04.2022
Supersedes   14.04.2021

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Electrical Properties	Value
Voltage Rating[1] UL 510	600V
Dielectric Breakdown[2] Standard Condition (Minimal) High Humidity	 40kV/mm 90% of the std
Insulation Resistance[2] (Minimal)	$1 \times 10^{11}\,\Omega$

Properties measured at room temperature 23 °C unless otherwise stated.
[1] UL 510 Standard   [2] IEC60454-3-1 Standard

4.   User Information

4.1   Specifications

Temflex™ 165 Vinyl Electrical Tape is based on polyvinyl chloride (PVC) and/or its copolymers and has a rubber-based, pressure-sensitive adhesive. The tape is 0,152 mm thick, UL listed and marked per UL Standard 510 as "Flame Retardant and Cold Resistant." The tape is applicable at temperatures ranging from 0 °C through 38 °C without loss of physical properties. It's classified for use in both indoor and outdoor environments and is compatible with synthetic cable insulations, jackets and splicing compounds.

4.2   Installation Techniques

Temflex™ 165 Vinyl Electrical Tape should be applied in half-lapped layers with sufficient tension to produce a uniform wind (for most applications this tension will reduce the tape's width to approximately 60 % of its original width). On pigtail splices, the tape must be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through.
Wrap tape "up-hill", taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.

4.3   Agency Approvals & Self Certifications

- UL listed; UL 510 Standard "Insulating Tape" (product category OANZ), File E129200
- CSA certified; CSA-C22.2 No.197 "PVC Insulating Tape", File LR 48769, Class 9052-02
- VDE listed and certified with VDE marks license 40051171, classified as Type 5 Tape acc. IEC60454-3-1-5/F-PVCP/90

For RoHS information, please visit www.3M.com/RoHS

4.4   Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled area (10 °C to 27 °C and <75 % relative humidity).

4.5   Availability

Please contact your local distributor.

5.   Additional Information

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To request additional product information, see address below.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

All questions of warranty and liability relating to 3M products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

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