# Smooth Tubing





# SILICONE T117U

The SILICONE T117U tubing is an extruded unsupported tube made of silicone rubber.

It is highly well suited for harsh environments thanks to its excellent electrical and mechanical properties.

SILICONE T117U tubing is very flexible and fits perfectly over irregular shapes.
It can be used for cable bundling and protection but it is also used for fluid transfer applications.

It is also flame retardant.

The SILICONE T117U tubing stands to very low temperatures (-55°C/-67°F) up to very high temperatures (200°C/392°F).
It is available in two wall thicknesses, depending on the required dielectric strength: .015" for 10kV and .035" for 15kV.

**Typical applications include:** coil and winding industry (coils, motors, generators, transformers…); lighting fixtures; recreational vehicles; technology, media and telecommunications; appliances; wind turbines and solar panels; heating and cooling; and in many other industrial fields.

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## Characteristics & Properties

- **Colors:** standard colors are black, white, clear, red, yellow, blue and green. Other colors upon request.
- **Operating temperature:** -55°C / +200°C (-67°F / +392°F).
- **Flammability (UL 1441 VW-1):** pass.
- **Dielectric rating:** 300V for the .015" wall thickness and 600V for the .035" wall thickness.

## Dimensions

The following designation is for the .035" wall thickness version. Sizes for the .015" version are available from #24 thru #5. For the .015" designation, replace the *600* portion by *300*.

| Designation | NEMA sizes | Minimum Ø (inches) | Maximum Ø (inches) | Indicative nominal Ø | |
|---|---|---|---|---|---|
| | | | | (inches) | (mm) |
| SILICONE T117U-600 AWG 24 | 24 | 0.020 | 0.027 | 0.024 | 0.61 |
| SILICONE T117U-600 AWG 22 | 22 | 0.025 | 0.032 | 0.029 | 0.74 |
| SILICONE T117U-600 AWG 20 | 20 | 0.032 | 0.039 | 0.036 | 0.91 |
| SILICONE T117U-600 AWG 19 | 19 | 0.036 | 0.044 | 0.040 | 1.02 |
| SILICONE T117U-600 AWG 18 | 18 | 0.040 | 0.049 | 0.045 | 1.14 |
| SILICONE T117U-600 AWG 17 | 17 | 0.045 | 0.054 | 0.050 | 1.27 |
| SILICONE T117U-600 AWG 16 | 16 | 0.051 | 0.061 | 0.056 | 1.42 |
| SILICONE T117U-600 AWG 15 | 15 | 0.057 | 0.067 | 0.062 | 1.57 |
| SILICONE T117U-600 AWG 14 | 14 | 0.064 | 0.074 | 0.069 | 1.75 |
| SILICONE T117U-600 AWG 13 | 13 | 0.072 | 0.082 | 0.077 | 1.96 |
| SILICONE T117U-600 AWG 12 | 12 | 0.081 | 0.091 | 0.086 | 2.18 |
| SILICONE T117U-600 AWG 11 | 11 | 0.091 | 0.101 | 0.096 | 2.44 |
| SILICONE T117U-600 AWG 10 | 10 | 0.102 | 0.112 | 0.107 | 2.72 |
| SILICONE T117U-600 AWG 9 | 9 | 0.114 | 0.124 | 0.119 | 3.02 |
| SILICONE T117U-600 AWG 8 | 8 | 0.129 | 0.141 | 0.135 | 3.43 |
| SILICONE T117U-600 AWG 7 | 7 | 0.144 | 0.158 | 0.151 | 3.84 |
| SILICONE T117U-600 AWG 6 | 6 | 0.162 | 0.178 | 0.170 | 4.32 |
| SILICONE T117U-600 AWG 5 | 5 | 0.182 | 0.198 | 0.190 | 4.83 |
| SILICONE T117U-600 AWG 4 | 4 | 0.204 | 0.224 | 0.214 | 5.44 |
| SILICONE T117U-600 AWG 3 | 3 | 0.229 | 0.249 | 0.239 | 6.07 |
| SILICONE T117U-600 AWG 2 | 2 | 0.258 | 0.278 | 0.268 | 6.81 |
| SILICONE T117U-600 AWG 1 | 1 | 0.289 | 0.311 | 0.300 | 7.62 |
| SILICONE T117U-600 5/16 | 5/16" | 0.313 | 0.334 | 0.324 | 8.23 |
| SILICONE T117U-600 AWG 0 | 0 | 0.325 | 0.347 | 0.336 | 8.53 |
| SILICONE T117U-600 3/8 | 3/8" | 0.375 | 0.399 | 0.387 | 9.83 |
| SILICONE T117U-600 7/16 | 7/16" | 0.438 | 0.462 | 0.450 | 11.43 |
| SILICONE T117U-600 1/2 | 1/2" | 0.500 | 0.524 | 0.512 | 13.00 |
| SILICONE T117U-600 5/8 | 5/8" | 0.625 | 0.655 | 0.640 | 16.26 |
| SILICONE T117U-600 3/4 | 3/4" | 0.750 | 0.786 | 0.768 | 19.51 |



## Packaging

SILICONE T117U tubing is delivered in rolls or in cut lengths.