

### **KEY FEATURES**

- Easier to use than standard TTMS due to its oval shape
- 3 : 1 shrink ratio (except sizes 38.1mm and 50.8mm which are 2 : 1)
- Thin walled and flame retardant
- Thermal Transfer printable only
- Meets military specifications for material and print performance
- -55°C to 135°C operating temperature
- CSA certified, UL recognized UL224
- RoHS complaint

#### **APPLICATIONS**

Used for wire and cable harness identification in the following industries :

Lighting

Rail & Mass Transit

- Aerospace
- Commerical
  Marine
- Defense
- Industrial

#### **MECHANICAL**

- TENSILE STRENGTH : 10MPA minimum (SAE -AMS-DTL-23053/5)
- ULTIMATE ELONGATION : 200% minimum (SAE-AMS-DTL-23053/5)
- LONGITUDINAL CHANGE : -20% maximum (SAE-AMS-DTL-23053/5)
- HEAT AGING : 100% UE retained and print legible after 168 hours at 175°C (347°F)
- **HEAT SHOCK** : No cracking, dripping or flowing and print legible after 4 hours at 250°C (482°F)
- LOW TEMPERATURE FLEXIBILITY : No cracking after 4 hours at -55°C (-67°F), 11mm (7/16 inch) mandrel bend.

## Introducing TTMS-MP Heat-Shrinkable Tubing

TTMS-MP tubing is a semi-flattened, heat-shrinkable tubing intended for wire and cable identification. Available in continuous spools only, TTMS-MP tubing is designed for computer-based printing using a T2000CT-PRINTER. However, the real advantage of TTMS-MP is the ease with which it slips over wires due to its oval shape. The product format makes TTMS-MP identification tubing ideal for applications where insequence kitting is not of over-riding importance, for example where several hundred identical markers are required.

#### **ELECTRICAL**

• DIELECTRIC STRENGTH : 20MV/m minimum (IEC 243)

#### **STANDARDS AND SPECS**

- TE Connectivity : RW 2517
- UL : recognized Standard 224, (File E35586)
- CSA : certified CSA C22.2 No. 198.1-98, (File 31929)
- Military : AMS-DTL-23053/5, AS-81531, MIL-STD-202F Method 215

#### MATERIALS

• Thin wall, flame retardant radiation cross-linked polyolefin heat-shrinkable tubing

#### **PRODUCT DIMENSIONS** in inches and (millimeters)

Part Number	Exp. (Min)	Recovered (max)	Rec. use range	Rec. wall thickness	Weight Ib/ft (g/m)
TTMS-MP-2.4	<b>0.093</b> (2.36)	<b>0.031</b> (0.79)	<b>0.032 - 0.075</b> (0.91 - 1.90)	<b>0.021 ± 0.003</b> (0.53 ± 0.08)	<b>0.0017</b> (2.76)
TTMS-MP-3.2	<b>0.125</b> (3.18)	<b>0.042</b> (1.07)	<b>0.044 - 0.105</b> (1.11 - 2.66)	<b>0.023 ± 0.003</b> (0.58 ± 0.08)	<b>0.0025</b> (3.73)
TTMS-MP-4.8	<b>0.187</b> (4.75)	<b>0.062</b> (1.57)	<b>0.069 - 0.160</b> (1.75 - 4.06)	<b>0.023 ± 0.003</b> (0.58 ± 0.08)	<b>0.0033</b> (4.93)
TTMS-MP-6.4	<b>0.250</b> (6.35)	<b>0.083</b> (2.11)	<b>0.091 - 0.215</b> (2.31 - 5.46)	<b>0.023 ± 0.003</b> (0.58 ± 0.08)	<b>0.0043</b> (6.46)
TTMS-MP-9.5	<b>0.375</b> (9.53)	<b>0.125</b> (3.18)	<b>0.137 - 0.320</b> (3.47 - 8.12)	<b>0.023 ± 0.003</b> (0.61 ± 0.08)	<b>0.0062</b> (9.27)
TTMS-MP-12.7	<b>0.500</b> (12.70)	<b>0.166</b> (4.22)	<b>0.183 - 0.425</b> (4.64 - 10.79)	0.024 ± 0.003 (0.61 ± 0.08	<b>0.0084</b> (12.53)
TTMS-MP-19.0	<b>0.750</b> (19.05)	<b>0.250</b> (6.35)	<b>0.275 - 0.640</b> (6.99 - 16.25)	0.024 ± 0.003 (0.61 ± 0.08	<b>0.0149</b> (22.13)
TTMS-MP-25.4	<b>1.000</b> (25.40)	<b>0.333</b> (8.46)	<b>0.366 - 0.850</b> (9.29 - 21.59)	0.025 ± 0.003 (0.64 ± 0.08)	<b>0.0190</b> (28.24)
TTMS-MP-38.1	<b>1.500</b> (38.10)	<b>0.750</b> (19.05)	<b>0.825 - 1.300</b> (20.95 - 33.02)	<b>0.020 ± 0.003</b> (0.51 ± 0.08)	<b>0.0340</b> (50.61)
TTMS-MP-50.8	<b>2.000</b> (50.80)	<b>1.000</b> (25.40)	<b>1.100 - 1.750</b> (27.94 - 44.95)	<b>0.025 ± 0.003</b> (0.64 ± 0.08)	<b>0.0584</b> (86.96)



te.com/products/identification-labeling

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