

# NETM1000

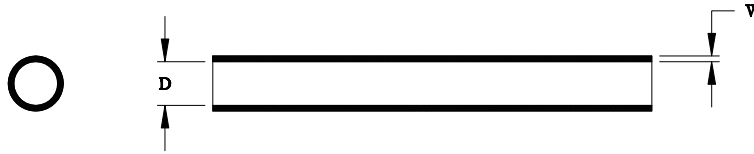


**Table 1: Dimensions**

| Size | Inside Diameter (D) |                | Wall Thickness (W) |                 |
|------|---------------------|----------------|--------------------|-----------------|
|      | mm.                 | in.            | mm.                | in.             |
| 3    | $3 \pm 0.5$         | $.118 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 4    | $4 \pm 0.5$         | $.157 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 5    | $5 \pm 0.5$         | $.197 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 6    | $6 \pm 0.5$         | $.236 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 8    | $8 \pm 0.5$         | $.315 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 10   | $10 \pm 0.5$        | $.394 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 12   | $12 \pm 0.5$        | $.472 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |
| 14   | $14 \pm 0.5$        | $.551 \pm .02$ | $0.5 \pm .1$       | $.020 \pm .004$ |

**Table 2: Properties**

| Property                                                                                                              | Unit                 | Requirement                                                                                                      | Test Method                     |
|-----------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Dimensions                                                                                                            | Inches (mm)          | Table 1                                                                                                          | ASTM D 2671                     |
| Tensile Strength                                                                                                      | PSI (MPa)            | 1500 (10.3) minimum                                                                                              | ASTM D 2671<br>20 inches/minute |
| Elongation                                                                                                            | Percent              | 150 minimum                                                                                                      |                                 |
| Longitudinal Change                                                                                                   | Percent              | -10 maximum                                                                                                      | ASTM D 2671                     |
| Low Temperature Flexibility<br>4 Hours at $-55^{\circ} \pm 3^{\circ}\text{C}$                                         | --                   | No cracking                                                                                                      | Note 1                          |
| Heat Shock<br>4 hours at $250^{\circ} \pm 3^{\circ}\text{C}$                                                          | --                   | No dripping, flowing or cracking                                                                                 | ASTM D 2671                     |
| Heat Age, 168 hours at $175^{\circ} \pm 3^{\circ}\text{C}$<br>followed by tests for<br>Tensile Strength<br>Elongation | PSI (MPa)<br>Percent | 1500 (10.3) minimum<br>150 minimum                                                                               | ASTM D 2671<br>20 inches/minute |
| Volume Resistivity                                                                                                    | ohm-m                | $10^3$ minimum                                                                                                   | ASTM D 2671                     |
| Flammability                                                                                                          | --                   | No flaming or glowing longer than 1 minute from any flame application. 25% max. flag burn. No burning of cotton. | ASTM D 2671<br>Procedure C      |
| Voltage Withstand                                                                                                     | Volts                | 1000 volts for 1 minute, minimum                                                                                 | ASTM D 2671                     |

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Customer Drawing

|                                                                                                                                                   |                |            |                                  |                           |                  |
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|                                                                |                |            | <b>Raychem</b><br>Tubing         | Title:<br><b>NETM1000</b> |                  |
| Tyco Electronics reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application |                |            | Document No :<br><b>NETM1000</b> |                           |                  |
| Cage Code:<br>06090                                                                                                                               | Scale:<br>None | Size:<br>A | Rev. Date:<br>23-Oct-2015        | Rev.:<br>B                | Sheet:<br>1 of 2 |

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## Properties, continued

| Property                                                                                                                              | Unit    | Requirement | Test Method |
|---------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|-------------|
| Fluid Resistance                                                                                                                      |         |             | Note 2      |
| 1 Hour at 50°C in<br>Battery Acid<br>followed by test for:<br>Weight Increase                                                         | Percent | 15 maximum  |             |
| 24 Hour at 23°C in<br>Gasoline<br>Diesel Fuel<br>Transmission Oil<br>Power Steering Fluid<br>followed by test for:<br>Weight Increase | Percent | 15 maximum  |             |
| 1 Hour at 50°C in<br>Motor Oil 15W/40<br>Brake Fluid, DOT 4<br>followed by test for:<br>Weight Increase                               | Percent | 15 maximum  |             |
| 1 Hour at 23°C in<br>Antifreeze 50/50<br>followed by test for:<br>Weight Increase                                                     | Percent | 15 maximum  |             |

**Note 1:** Test three specimens of tubing for low temperature flexibility as follows: Slide the tubing onto a stranded AWG wire (nearest AWG which will fit inside the tube). Condition the specimens and a mandrel, selected from Table 2, in a cold chamber for 4 hours at  $-55 \pm 3^{\circ}\text{C}$  ( $-67 \pm 5^{\circ}\text{F}$ ). After completion of the conditioning period and while still in the cold chamber at the specified temperature, bend the specimen around the mandrel through not less than 360 degrees in  $10 \pm 2$  seconds. Visually examine the tubing for cracks.

**Note 2:** Six specimens, three 6-inch (150-mm) tubing specimens, which shall be weighed prior to immersion and shall be immersed in each of the test fluids listed at the temperature specified. The volume of the fluid shall not be less than 20 times that of the specimens. After conditioning, all the specimens shall be lightly wiped and air dried for 30 to 60 minutes at  $23 \pm 3^{\circ}\text{C}$  ( $73 \pm 5^{\circ}\text{F}$ ). The three specimens shall be reweighed after immersion and the weight change calculated as a percentage.

**Table 3: Mandrel Dimensions for Bend Testing**

| Size              | Mandrel Diameter |                  |
|-------------------|------------------|------------------|
|                   | mm               | in.              |
| 3 to 6 inclusive  | $7.9 \pm 0.05$   | $5/16 \pm 0.002$ |
| 8 to 14 inclusive | $9.5 \pm 0.08$   | $3/8 \pm 0.003$  |

|                           |            |                                  |                  |
|---------------------------|------------|----------------------------------|------------------|
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|                           |            |                                  |                  |

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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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