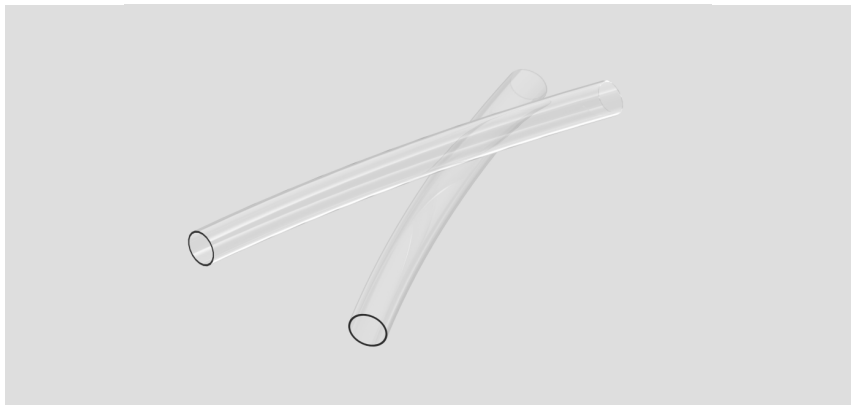


# ES1000



## SEMI RIGID, ADHESIVE-LINED, EASY SPLICE, HEAT SHRINKABLE TUBING

### PRODUCT BENEFITS

- Clear product for see through inspection of the splice.
- Non flame retarded.
- Hot melt adhesive to provide excellent sealing properties.
- Excellent mechanical protection against abrasion and strain damage.
- UL224 VW-1 compliant.

### MARKET

- Automotive
- ICT

Clear, adhesive-lined ES1000 heat-shrinkable tubing is specifically designed for environmental sealing and electrical insulation of wire splices, terminations, and components where see-through inspection is required.

ES1000 tubing has an outer jacket of radiation-crosslinked, semirigid polyolefin. The jacket is mechanically tough, providing strain relief and abrasion protection of wire splices and mechanically sensitive components. The inner layer of the tubing is a unique hot-melt adhesive, specially formulated to seal to most types of commercial wire insulation, and to perform well at an extended temperature range.

The thick adhesive forms an effective barrier against fluids and moisture, helping to protect the harness from the effects of corrosion and water wicking. Because ES1000 tubing has a high shrink ratio, only a few sizes are needed to cover a wide range of splice and component diameters.

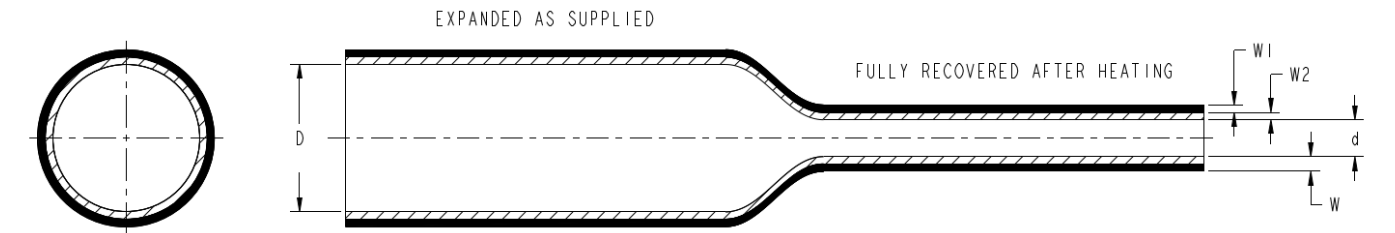
### TEMPERATURE RATING

- Full recovery temperature: **135°C (275°F)**
- Continuous operating temperature: **-40°C to 130°C (-40°F to 266°F)**
- Minimum shrink temperature: **110°C (230°F)**

### SPECIFICATIONS\*

- Type: **ES1000**
- Raychem: **RT-1113**
- UL: **E85381**

DIMENSIONS (MILLIMETERS/INCHES)



| Product Size | Inside Diameter               |                                  | Recovered wall thickness |                        |                          |
|--------------|-------------------------------|----------------------------------|--------------------------|------------------------|--------------------------|
|              | Expanded as supplied D (min.) | Recovered after heating d (max.) | Minimum total wall W     | Minimum jacket wall W1 | Minimum Adhesive wall W2 |
| ES1000-No.1  | 5.72 (0.225)                  | 1.27 (0.050)                     | 1.20 (0.047)             | 0.64 (0.025)           | 0.56 (0.022)             |
| ES1000-No.2  | 7.44 (0.293)                  | 1.65 (0.065)                     | 1.52 (0.060)             | 0.76 (0.030)           | 0.76 (0.030)             |
| ES1000-No.3  | 10.85 (0.427)                 | 2.41 (0.095)                     | 1.91 (0.075)             | 0.89 (0.035)           | 1.02 (0.040)             |
| ES1000-No.4  | 17.78 (0.700)                 | 4.45 (0.175)                     | 2.41 (0.095)             | 1.04 (0.041)           | 1.37 (0.054)             |

Note: Dimensions showin in mm (inches).  
\*\*Wall thickness will be less if tubing recovery is restricted during shrinkage.

| ORDERING INFORMATION |  |
|----------------------|--|
| Color                | Clear (-X)   |
| Size selection       | Always order the largest size that will shrink snugly over the component being covered.                |
| Standard packaging   | Cut piece -MM, Stick -STK (1.2M)   |
| Marking              | Tubing will be marked with the number size (for example, ES-1, ES-2, ES-3, or ES-4).                   |
| Ordering description | Specify product name, size, print code, color, and finishing type; for example, ES1000-No.2-B9-X-25MM. |

Are you looking to seal out moisture, offer enhanced strain relief, or provide rigorous mechanical protection?  
Do you need a flame retardant product? Leverage TE Connectivity’s (TE) comprehensive portfolio of heat shrink tubing products in a wide range of applications.

Learn more: [TE.com/heatshrinktubing](https://www.te-connectivity.com/heatshrinktubing)

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