

## Micro Molded Shapes

### Micro Molded Heat-Shrink Shapes

Connector manufacturers are increasingly offering smaller high performance, rugged, micro circular connectors for use in wiring harnesses in both civilian and defense markets.

The range of small heat-shrink molded shapes from TE Connectivity (TE) has evolved in order to cater for these requirements for smaller, lighter-weight products that still offer a great balance of protection properties at the connector-wire interface.

Produced in a variety of shapes and materials, TE's range of Raychem branded molded shapes are supplied in an expanded form. On the application of heat, they shrink to a pre-determined size and shape, providing a tough, protective covering for the components over which they are installed.



#### Product Facts

- Small size
- Supplied in expanded form
- Adhesive lined options
- Strain relief
- Available in a range of different cross-linked polymeric materials

#### Benefits

- Weight and space savings
- Facilitates installation
- Environmental sealing against fluid and dirt ingress
- Provides protection against mechanical abuse at the cable-connector interface
- Suitable for a wide range of application and environmental requirements for low fire hazard, flame retardance, high temperatures and fluid resistant characteristics. Applications from underwater to outer space, in military vehicles to cars, rail and mass transit

**Micro Molded Shapes** (Continued)

**Material**

**-25 Molded Part Material**

A heat-shrinkable, semi-rigid, fluid and temperature resistant, elastomeric molding compound, designed to offer excellent performance in harsh environments. Ideal for use in military and commercial vehicles where high temperatures and long-term exposure to hot fluids is expected.

**-12 Molded Part Material\***

A high-temperature, heat-shrinkable, flexible, flame-retarded, fluoroelastomeric molding compound with excellent resistance to long-term fluid immersion and heat exposure.



**-3 Molded Part Material\***

A general purpose, heat-shrinkable semi rigid and flame retarded polyolefin molding compound with good resistance to fluids and heat.

**-100 Molded Part Material\***

A heat-shrinkable, semi-flexible, low-fire-hazard molding compound designed to offer excellent fire safety characteristics combined with low smoke and low acid gas emission. 100 also exhibits good mechanical and fluid resistance properties.



**Min** = Minimum inner diameter of the supplied expanded shape. We would supply to this dimension or greater.

**Max** = Recovered dimensions after heating.

The recommended usage range for the part is from 10% less than minimum expanded inside diameter to 10% greater than the maximum recovered inside diameter.

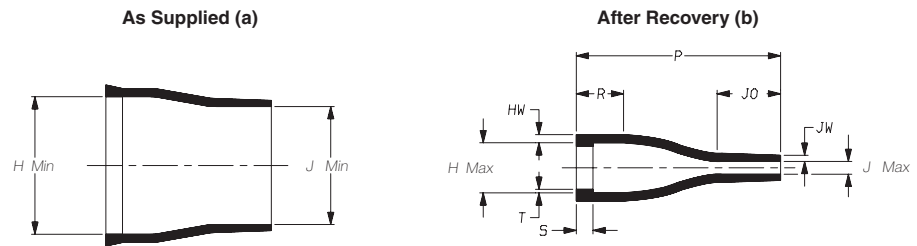
For more information please search by Part Number on: [www.te.com/adm](http://www.te.com/adm) or contact our TE sales representatives.

**Materials:**

\*As Supplied/Expanded dimensions may be slightly reduced due to the nature of the material. After recovery sizes are not affected.

Micro Molded Shapes (Continued)

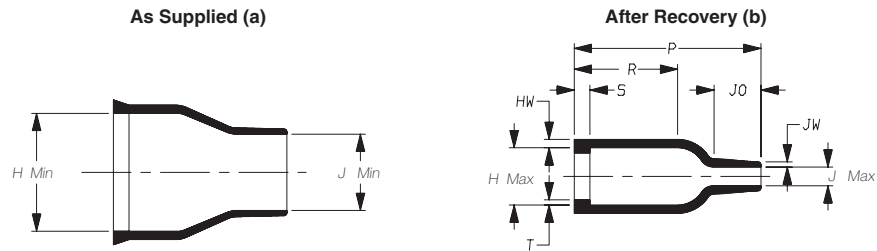
Selection Guide



Dimensions in millimeters (in inches, for reference)

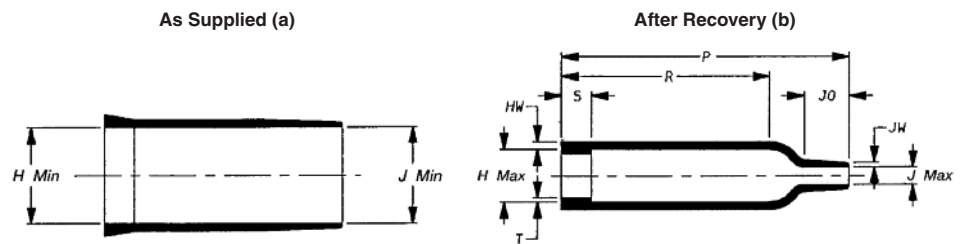
Part Number	As Supplied		After Recovery								
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
204W201	10 [.39]	9.0 [.35]	5.2 [.20]	1.5 [.06]	20 [.79]	4.0 [.16]	0.8 [.03]	0.35 [.01]	6.6 [.26]	0.8 [.03]	0.6 [.02]

4 Molded Parts



Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery								
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
203W301-*G02	10 [.39]	6.0 [.24]	5.8 [.23]	2.2 [.09]	19 [.75]	11 [.43]	1.5 [.06]	0.5 [.02]	4.5 [.18]	0.8 [.03]	0.5 [.02]

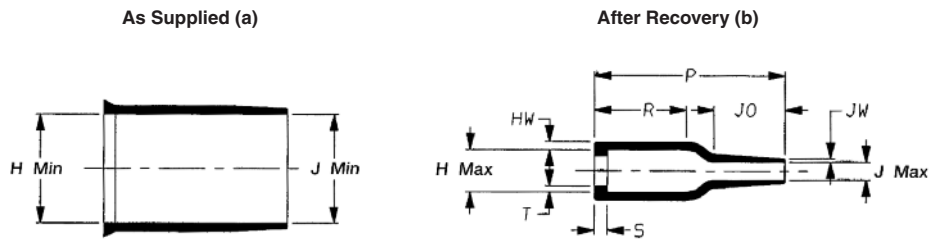


Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery								
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
203W301	10 [.39]	10 [.39]	5.8 [.23]	2.2 [.09]	29 [1.14]	21 [.83]	3.0 [.12]	0.5 [.02]	4.5 [.18]	0.8 [.03]	0.5 [.02]

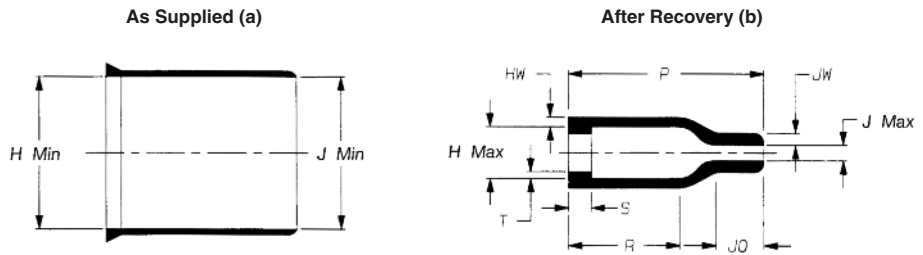
**Micro Molded Shapes (Continued)**

**Selection Guide**



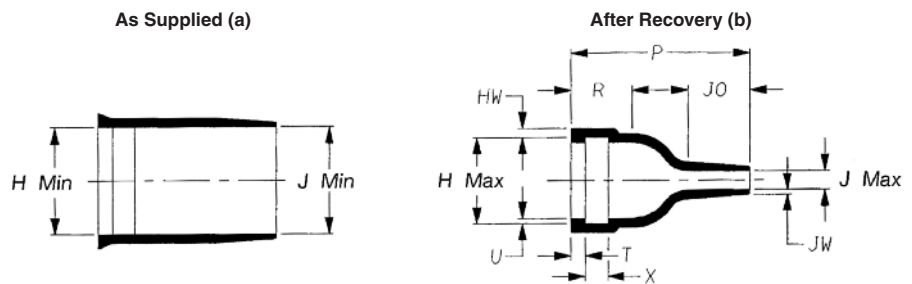
Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery								
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
202K111-*01	17 [.67]	17 [.67]	6.9 [.27]	3.0 [.12]	29 [1.14]	14 [.55]	1.7 [.07]	0.9 [.04]	10.8 [.43]	1.3 [.05]	0.7 [.03]



Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery								
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	JO ±10% b	JW ±20% b	HW ±20% b
202A111-*G07	17 [.67]	17 [.67]	7.9 [.31]	2.2 [.09]	25 [.98]	14 [.55]	3.0 [.12]	1.0 [.04]	6.0 [.24]	1.7 [.07]	1.0 [.04]

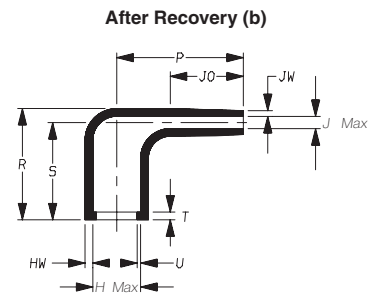
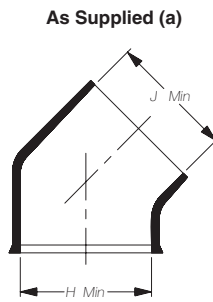


Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery									
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	T ±10% b	U ±10% b	X ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
204W221	11 [.43]	11 [.43]	9.3 [.37]	2.1 [.08]	19 [.75]	6.5 [.26]	1.5 [.06]	0.55 [.02]	2.4 [.09]	6.6 [.26]	1.1 [.04]	0.5 [.02]

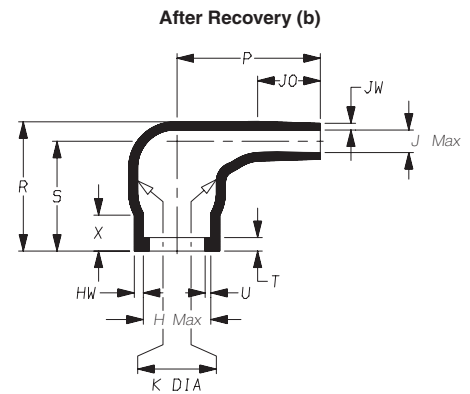
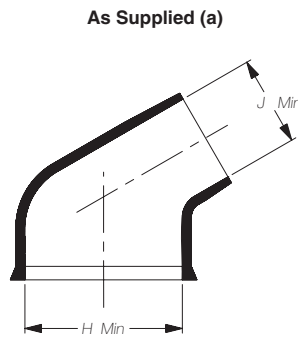
Micro Molded Shapes (Continued)

Selection Guide



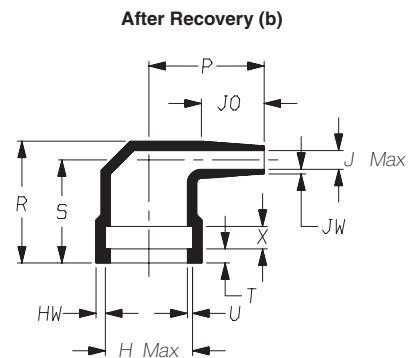
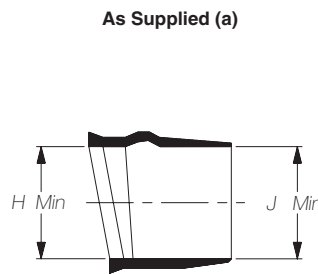
Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery									
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	U ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
224W201	11 [.43]	9.0 [.35]	5.2 [.20]	1.6 [.06]	13 [.51]	11.5 [.45]	10 [.39]	0.8 [.03]	0.35 [.01]	7.5 [.30]	0.8 [.03]	0.6 [.02]



Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery												
	H Min. a	J Min. a	H Max. b	J Max. b	K Min. b	K Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	U ±10% b	JO ±10% b	HW ±20% b	JW ±20% b	X ±20% b
223W601	10 [.39]	6.0 [.24]	6.3 [.25]	2.0 [.08]	10 [.39]	7.4 [.29]	12.5 [.49]	11.5 [.45]	9.8 [.39]	1.2 [.05]	0.5 [.02]	6.0 [.24]	1.0 [.04]	0.6 [.02]	3.2 [.13]



Dimensions in millimeters (in inches, for reference)

Part Number	As Supplied		After Recovery										
	H Min. a	J Min. a	H Max. b	J Max. b	P ±10% b	R ±10% b	S ±10% b	T ±10% b	U ±10% b	X ±10% b	JO ±10% b	HW ±20% b	JW ±20% b
224W221	11 [.43]	11 [.43]	9.3 [.37]	2.1 [.08]	12.3 [.48]	13 [.51]	11 [.43]	1.5 [.06]	0.55 [.02]	2.4 [.09]	6.6 [.26]	1.0 [.04]	0.5 [.02]