

ATUM

**High-Shrink-Ratio,
Adhesive-Lined Polyolefin
Tubing**

Product Facts

- 3:1 and 4:1 shrink ratios allow for connector-to-cable sealing
- Tubing environmentally seals and protects components and interconnections
- Medium wall provides increased mechanical protection
- The adhesive in ATUM tubing bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, aluminum, steel, and copper
- RoHS compliant



Applications

Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.


Installation

Minimum shrink temperature: 80°C [176°F]
Minimum full recovery temperature: 110°C [230°F]

Operating Temperature Range

-55°C to 110°C
[-67°F to 230°F]

Specifications/Approvals

| Series | UL**  | Military | Raychem |
|--------|--|---------------------------|---|
| ATUM | E85381 600V, 110°C | AMS-DTL-23053/4,* Class 3 | RW-2063 - Black RK-6024 - Colors and clear |

*Formerly MIL-I-23053/4 and MIL-DTL-23053/4. Sizes 3/1, 6/2, 12/4, 24/8, and 40/13 only.
**Black only, except sizes 3/1 and 4/1.

| Available in: | Americas | Europe | Asia Pacific |
|---------------|----------|--------|--------------|
| | ■ | ■ | ■ |

ATUM (Continued)

Product Dimensions

| Size | Inside Diameter | | Recovered Wall Thickness** | |
|------------|------------------------------|---------------------------------|-----------------------------|---------------------------------------|
| | Minimum Expanded as Supplied | Maximum Recovered After Heating | Total Wall After Heating | Adhesive Wall After Heating (Nominal) |
| 3:1 | | | | |
| 3/1 | 3.0 [0.118] | 1.0 [0.039] | 1.00 ± 0.28 [0.039 ± 0.010] | 0.50 [0.020] |
| 4.5/1.5 | 4.5 [0.177] | 1.5 [0.059] | 1.10 ± 0.25 [0.043 ± 0.011] | 0.50 [0.020] |
| 6/2 | 6.0 [0.236] | 2.0 [0.079] | 1.00 ± 0.28 [0.039 ± 0.010] | 0.50 [0.020] |
| 9/3 | 9.0 [0.354] | 3.0 [0.118] | 1.40 ± 0.28 [0.055 ± 0.010] | 0.61 [0.024] |
| 12/4 | 12.0 [0.472] | 4.0 [0.157] | 1.78 ± 0.38 [0.070 ± 0.015] | 0.76 [0.030] |
| 19/6 | 19.0 [0.748] | 6.0 [0.236] | 2.25 ± 0.55 [0.088 ± 0.022] | 0.76 [0.030] |
| 24/8 | 24.0 [0.940] | 8.0 [0.315] | 2.54 ± 0.55 [0.100 ± 0.022] | 1.02 [0.040] |
| 40/13 | 40.0 [1.570] | 13.0 [0.512] | 2.54 ± 0.55 [0.100 ± 0.022] | 1.02 [0.040] |
| 4:1 | | | | |
| 4/1 | 4.0 [0.157] | 1.0 [0.039] | 1.00 ± 0.28 [0.039 ± 0.010] | 0.50 [0.020] |
| 8/2 | 8.0 [0.315] | 2.0 [0.079] | 1.00 ± 0.28 [0.039 ± 0.010] | 0.50 [0.020] |
| 12/3 | 12.0 [0.472] | 3.0 [0.118] | 1.40 ± 0.28 [0.055 ± 0.010] | 0.61 [0.024] |
| 16/4 | 16.0 [0.630] | 4.0 [0.157] | 1.78 ± 0.38 [0.070 ± 0.015] | 0.76 [0.030] |
| 24/6 | 24.0 [0.945] | 6.0 [0.236] | 2.25 ± 0.55 [0.088 ± 0.022] | 0.76 [0.030] |
| 32/8 | 32.0 [1.260] | 8.0 [0.315] | 2.54 ± 0.55 [0.100 ± 0.022] | 1.02 [0.040] |
| 52/13 | 52.0 [2.050] | 13.0 [0.512] | 2.54 ± 0.55 [0.100 ± 0.022] | 1.02 [0.040] |

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

| | | |
|--------------------------|---|--|
| Color | Standard | Black (-0) |
| | Nonstandard | Clear in 3:1 sizes only (-X, non-flame-retardant jacket); other colors available on request. |
| Size selection | Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request. | |
| Standard packaging*** | In 1.2-meter [4-foot] lengths or on spools. | |
| Ordering description**** | Specify product name, size and color (for example, ATUM 8/2-0). | |

***Only 1.2 meter [4-foot] lengths are standard in the Americas. ATUM tubing on spools is nonstandard.

****For supply to MIL spec., add -MS to ordering description.