



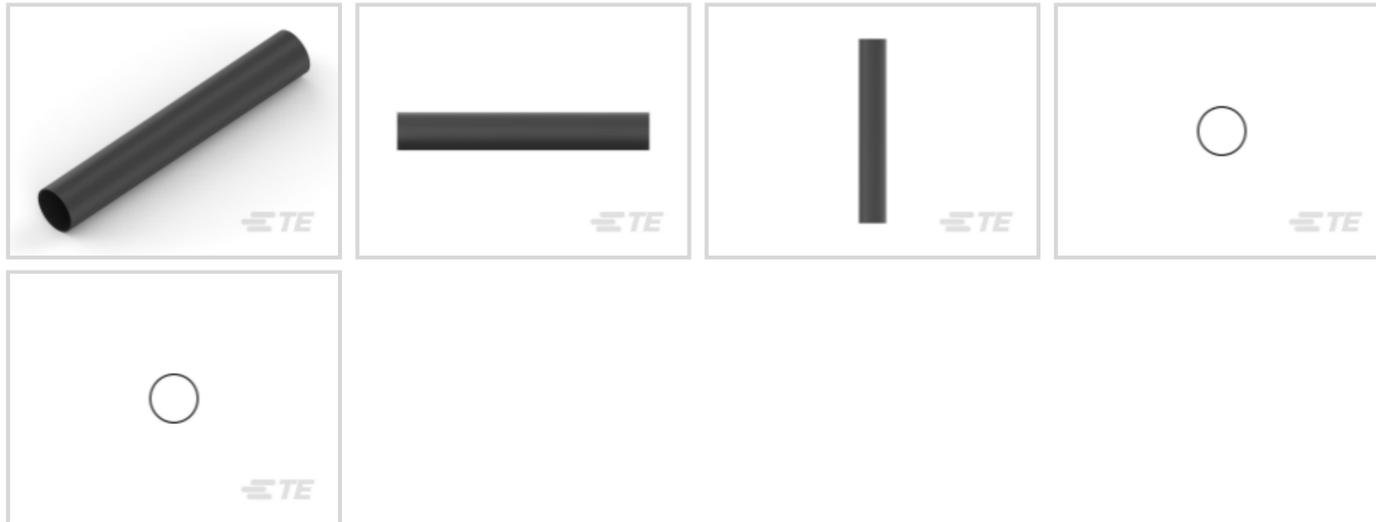
RAYCHEM | RAYCHEM ATUM

TE Internal #: NB10892001

Black, 3:1, Dual Wall Tubing, Shrinks To 1.5 mm [.059 in], Irradiated Modified Polyolefin, 4.5 mm [.177 in] Inner Diameter, RAYCHEM ATUM

[View on TE.com >](#)

Heat Shrink Tubing > ATUM 3:1 Heat Shrink Tubing



Primary Product Color: **Black**

Wall Type: **Dual Wall**

Expanded Inside Diameter (Min): **4.5 mm [.177 in]**

Recovered Inside Diameter (Max): **1.5 mm [.059 in]**

Shrink Ratio: **3:1**

[All ATUM 3:1 Heat Shrink Tubing \(135\)](#)

## Features

### Product Type Features

Wall Type	Dual Wall
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### Electrical Characteristics

Operating Voltage (Max)	.6 kV
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### Body Features

Fluid Type	Aviation Fuel, Chemicals/Solvents, De-Icing Fluid, Diesel Fuel, Hydraulic Fluid, Lubricating Oil
Primary Product Color	Black
Shrink Ratio	3:1
Primary Product Material	Irradiated Modified Polyolefin
Flexibility	Semi-Flexible

### Dimensions

Recovered Wall Thickness (Tolerance)	.3 mm[.012 in]
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Recovered Wall Thickness (Nominal)	1 mm [.039 in]
Product Length	1220 mm [48.031 in]
Expanded Inside Diameter (Min)	4.5 mm [.177 in]
Recovered Inside Diameter (Max)	1.5 mm [.059 in]
Tubing Size Range	1.5 – 4.5 mm [.059 – .177 in]

**Usage Conditions**

Shrink Temperature (Min)	80 °C
Tubing Flammability Type	Flame-Retardant
Operating Temperature Range	-55 – 110 °C
Recovery Temperature	110 °C

**Operation/Application**

Mechanical Resistance	Fluids, Mechanical Damage, Strain Relief
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**Product Availability**

Applicable Region	Global
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**Packaging Features**

Packaging Method	Bag & Box
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**Other**

Meets Low Outgassing Requirements	No
Product Source	Czech Republic

**Product Compliance**

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: DBMC (1.54% in Component Part) <b>Article Safe Usage Statements:</b> Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.



Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

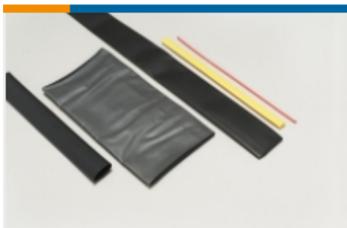
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

### Compatible Parts



TE Part # EG1114-000  
CV1981-ST-230V1600W-EU

### Also in the Series | RAYCHEM ATUM



Heat Shrink Tubing(220)

### Customers Also Bought



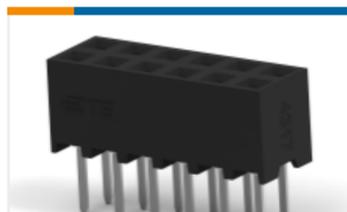
TE Part #328730  
SPLICE,N CE 22-10



TE Part #293736-1  
8 pos. coverpart (kit) for P/N 794617-8



TE Part #4-1879494-3  
CRGH0603 5% 56R 0.2W



TE Part #1-2314822-2  
12P,2MM,B-B,REC,DRV,T,2.7,0.76AU,TB



## Documents

### Product Drawings

[ATUM-4.5/1.5-0-STK](#)

English

### Datasheets & Catalog Pages

[ATUM Tubing](#)

English

### Product Specifications

[Application Specification](#)

English