



[RAYCHEM](#) | [RAYCHEM ES-2000](#)

TE Internal #: 130599P006

Black, 4:1, Dual Wall Tubing, Shrinks To .175 in [4.45 mm],  
Irradiated Modified Polyolefin, 17.78 mm [.696 in / .7 in] Inner  
Diameter, RAYCHEM ES-2000

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Heat Shrink Tubing



Primary Product Color: **Black**

Wall Type: **Dual Wall**

Expanded Inside Diameter (Min): **17.78 mm [ .696 in, .7 in ]**

Recovered Inside Diameter (Max): **4.45 mm [ .175 in ]**

Shrink Ratio: **4:1**

**Features**

**Product Type Features**

Product Family	ES2000
Wall Type	Dual Wall

**Electrical Characteristics**

Voltage (Max)	.6 kV
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**Body Features**

Fluid Type	Brake Fluid, Diesel Fuel, Engine Cleaner, Engine Coolant, Gasoline, Lubricating Oil, Transmission Fluid, Water, Windshield Washer Fluid
Primary Product Color	Black
Shrink Ratio	4:1
Primary Product Material	Irradiated Modified Polyolefin
Flexibility	Semi-Rigid

**Dimensions**

Recovered Wall Thickness (Tolerance)	2.41 mm[.095 in]
Cut Length	1220 mm[48.031 in]
Recovered Wall Thickness (Nominal)	2.41 mm[.095 in]
Expanded Inside Diameter (Min)	17.78 mm[.696 in][.7 in]



Recovered Inside Diameter (Max)	4.45 mm[.175 in]
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### Usage Conditions

Shrink Temperature (Min)	110 °C
Fluid Resistance	Limited Immersion Protection, Moisture /Spray Protection, Splash Protection
Heat Shrink Tubing Flammability	Flame-Retardant
Operating Temperature Range	-40 – 130 °C
Heat Shrink Tubing Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief
Recovery Temperature	135 °C

### Product Availability

Applicable Region	Global
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### Packaging Features

Packaging Method	Stick
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### Other

Meets Low Outgassing Requirements	No
Product Source	US

### 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: JAN 2023 (233) Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC
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

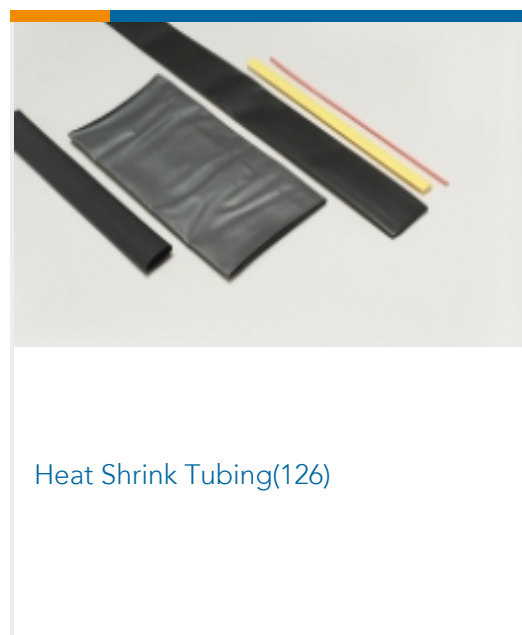


will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or 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>

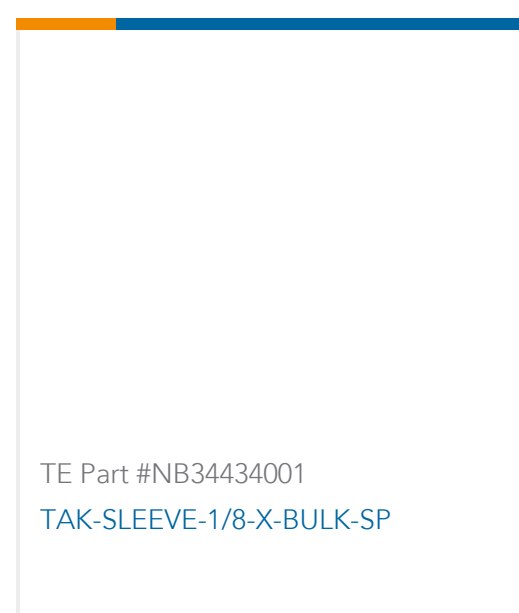
## Compatible Parts



## Also in the Series | RAYCHEM ES-2000



## Customers Also Bought





## Documents

### Product Drawings

[ES2000-NO.4-B7-0-STK](#)

English

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### Datasheets & Catalog Pages

[Measuring\\_Single\\_Wall\\_Tubing](#)

English

[ES2000 Pages from 9-1773447-9](#)

English

[Selecting\\_Correct\\_Tubing\\_1216](#)

English

[Flame-Retardant, Adhesive-Lined Heat-Shrinkable Tubing \(Extended Temp. Range\)](#)

English

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### Product Specifications

[Product Specification](#)

English

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### Product Environmental Compliance

[Safety Datasheet](#)

English

[Safety Datasheet](#)

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[Safety Datasheet](#)

[Safety Datasheet](#)

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English

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