

Semirigid, adhesive-lined heat-shrinkable tubing (extended temperature range)

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. ES1000 tubing dimensions have been engineered to provide low-cost sealing solutions on multiple-wire splices (up to seven wires per side), using standard Raychem application equipment.

Temperature rating

Full recovery temperature:	135°C
Continuous operating temperature:	–40°C to 130°C

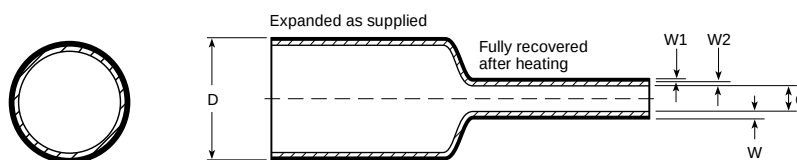
Specifications*



Type	Raychem	UL
ES1000	RT-1113	E85381

*When ordering, always specify latest issue.

Dimensions (millimeters/inches)



Part number	Inside diameter (including core)		Recovered wall thickness**			
	D (min.) Expanded as supplied	d (max.) Recovered after heating	W Minimum total wall	W1 Minimum jacket wall	W2 Minimum adhesive wall	
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	

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

Ordering information

Color	Clear
Size selection	Always order the largest size that will shrink snugly over the component being covered.
Standard packaging	Cut pieces. See reverse for information on standard cut lengths.
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, color, and cut length; for example, ES1000-No.2-X-50MM (X=Clear).

Specification values

	Property	Unit	Requirement	Method of test
Physical	Dimensions	mm (<i>inches</i>)	See reverse	ASTM D 2671
	Longitudinal change	percent	0, -10	ASTM D 2671
	Tensile strength*	psi (<i>MPa</i>)	1500 (<i>10.3</i>) minimum	ASTM D 2671
	Ultimate elongation*	percent	200 minimum	ASTM D 2671
	Low-temperature flexibility (-40°C/-40°F)		No cracking	ASTM D 2671
	Heat shock (4 hours at 225°C/437°F)		No cracking of outer jacket	ASTM D 2671
	Heat aging (168 hours at 175°C/347°F)	No cracking		See note below
Electrical	Volume resistivity	ohm-cm	1.0 x 10 ¹² minimum	ASTM D 257
	Dielectric strength (jacket only)**	volts/mil	350 minimum	ASTM D 149
Chemical	Water absorption	percent	1.0 maximum	ASTM D 570 Procedure A

Note: Consult Raychem RT-1113 for specific details about test procedures.

*Calculation based on wall thickness of jacket only.

**Adhesive liner manually removed prior to testing.

Standard cut lengths

Part number	Standard cut length	Cut length tolerance
ES1000-No. 1	27 mm, 50 mm, 65 mm 1220 mm	± 1.5 mm ± 25.4 mm
ES1000-No. 2	27 mm, 50 mm, 65 mm 1220 mm	± 1.5 mm ± 25.4 mm
ES1000-No. 3	27 mm, 65 mm, 75 mm 1220 mm	± 1.5 mm ± 25.4 mm
ES1000-No. 4	27 mm, 75 mm, 90 mm 1220 mm	± 1.5 mm ± 25.4 mm

Raychem is a trademark of Tyco Electronics Corporation.

Users should independently evaluate the suitability of the product for their application.

Tyco Electronics Corporation

300 Constitution Drive
Menlo Park, CA 94025-1164
USA
Tel: (800) 926-2425 (US & Canada)
Tel: +1 (650) 361-3860 (All other countries)

Faraday Road
Dorcan, Swindon, SN3 5HH
United Kingdom
Tel: +44 1793 528171

3816 Noborito, Tama-ku
Kawasaki, Kanagawa 214-8533
Japan
Tel: +81 44 900 5102

Asia Pacific Headquarters
26 Ang Mo Kio, Industrial Park 2
Singapore 569507
Tel: +65 4866 151

All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics Corporation makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Electronics Corporation's only obligations are those in the Standard Terms and Conditions of Sale for these products and in no case will Tyco Electronics Corporation be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Tyco Electronics Corporation's Specifications are subject to change without notice. In addition, Tyco Electronics Corporation reserves the right to make changes in materials or processing without notification to the Buyer which do not affect compliance with any applicable specification.

For more information about this product visit www.tycoelectronics.com

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9