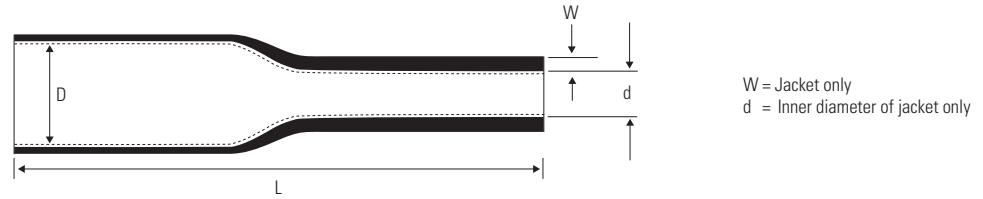


Dual-wall moisture proof, heat-shrinkable tubing to protect electrical splices



Ordering information

Inside diameter		Wall thickness		W+ adhesive liner (min)*	L (nom)	Ordering description
D (min) Expanded as supplied	d (max) Recovered after heating*	d (max) Jacket Recovered after heating	Recovered Jacket after heating			
5.75	1.25	2.65	0.6	1.15	50	RBK-ILS-125-NR1-0
7.5	1.65	3.45	0.7	1.4	50	RBK-ILS-125-NR2-0
11.0	2.70	4.65	0.8	1.8	65	RBK-ILS-125-NR3-0
14.0	3.00	5.9	0.9	2.15	65	RBK-ILS-125-3A-0
18.3	7.35	7.4	0.9	2.2	75	RBK-ILS-125-NR4-0

Refer to the Installation Guidelines document before selecting size. (PIP-019)

The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage.

*Nominal values for reference only

Standard colours	Colour	Black
	Code	0

Installation	The product may be installed using a Raychem RBK-ILS Processor or other recommended application equipment. Consult your local Tyco Electronics office for more information
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Performance	Longitudinal change:	0 to -10%
	Strain relief:	Insulation resistance does not drop below 2×10^8 ohms (min) after sample loaded to 50 N at 100 mm/min.
	Flammability:	Self-extinguishing within 30s (ISO 6722)
	Heat ageing:	No cracking of jacket at 125°C after 3000 h Insulation resistance 2×10^8 ohms (min)
	Split resistance:	No splitting at +200°C
Sequential:	The product must pass insulation resistance test 2×10^8 ohms (min) after each of the following tests:	
	Cold impact:	No cracking of jacket at -40°C for 4 h (ISO 6722)
	Accelerated ageing:	+130°C for 168 h
	Thermal shock:	5 cycles of +130°C for 1 h followed by immersion in saline solution at 0 to +5°C for 30 mins.
	Temperature/humidity cycling:	5 cycles of +40°C for 12 h at 95% R.H. -40°C for 4 h +40°C for 3 h at 95% R.H. +23°C for 5 h
	Mechanical vibration:	IEC 6068-2-6
	Flex test:	Mandril Flex under load 5 cycles
	Fluid soak:	Samples soaked for 30 mins at 23°C in: Engine oil ISO 1817 No 1 Automatic transmission fluid Dexron™ 2 Samples soaked for 30 mins at 23°C Diesel fuel ISO 1817 Liquid F Brake fluid Dot 4 Gunk degreaser Fuel C ISO 1817, 1985 Fuel 3 ISO 1817, 1985 Car wash detergent 1% Teepol/water by volume Battery acid BS 3031 (1.25 SG) Anti-freeze 50/50 v/v

All tests conducted are specified in Raychem Specification RK 6638



• **Excellent environmental seal**



• **Mechanical protection against flexing, abrasion and cut-through**



• **Small cross-sectional profile**

• **Temperature rated to 125°C continuous**

RBK-ILS-125 is a dual-wall, heat-shrinkable tubing designed to provide moisture proof encapsulation of an electrical splice in an automotive environment.

Moisture may enter a splice area directly or indirectly via a capillary action between individual wires, thus causing corrosion.

The tubing is centred over the splice area and on heating the adhesive melts and is squeezed around where the wires are crimped or welded and between the conductors, by the shrinking action of the sleeve. The installed product provides low profile mechanical protection against flexing, abrasion and cut-through as well as electrical insulation. The jacket is flame-retarded. There are five sizes to cover the range of splice profiles found, and up to seven wires may enter either end of the product. The sleeves are marked with size, ie, RBK-1 to aid selection. The compact size of RBK-ILS-125 suits process line harness assembly.

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