

- Excellent environmental seal
- Mechanical protection against flexing, abrasion and cut-through
- Small cross-sectional profile
- Temperature rated to 125°C continuous

RBK-ILS-125

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

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 capillary action between individual wires, thus causing corrosion.

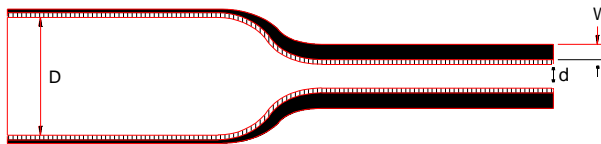
The tubing is centred over the splice area and on heating the adhesive melts and is 'pumped' around where the wires are crimped or welded and between the conductors, by the shrinking action of the sleeve. The installed product provides low profile mechanical protection against flexing, abrasion and cut-through as well as electrical insulation. The jacket is flame-retarded.

There are four sizes to cover the range of splice profiles found, and up to seven wires may enter either end of the product. RBK-ILS-125 may be used on stub or centre strip splices. The sleeves are colour coded to aid selection. The compact size of RBK-ILS-125 suits process line harness assembly.

Temperature rating

Operating temperature range:	-40°C to +125°C
Minimum recovery temperature:	+135°C

Ordering information



Inside diameter		Wall thickness		Ordering description
D (min) Expanded as supplied	d (max) Recovered after heating	W (min) Recovered after heating		
mm	mm	mm		
5.75	1.25	1.15		RBK-ILS-125-NR1-0
7.4	1.65	1.4		RBK-ILS-125-NR2-0
11.0	2.4	1.8		RBK-ILS-125-NR3-0
14.0	3.0	2.1		RBK-ILS-125-3A-0
18.3	4.35	2.1		RBK-ILS-125-NR4-0

Refer to the Installation Guidelines document before selecting size.

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

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 Raychem office for more information

RBK-ILS-125

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 60 s (ASTM D2671 Proc B)
	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 of 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 68-2-6 (BS 2011)
	Flex test:	180° flex with differing loads for each sleeve size, 100 cycles at 12 cycles/min.
	Fluid soak:	Samples soaked for 30 mins at 100°C in: Engine oil ISO 1817 No 1 Automatic transmission fluid Dexron 2
	Fluid splash:	Sample immersed in each of the following fluids for 10 s: 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 as specified in Raychem Specification RK 6638.

Specifications

Raychem Specification RK 6638.

Installation instructions available on request.

Material Safety Data Sheet available on request.

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