

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

RBK-VWS-125

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

RBK-VWS-125 is a dual-wall, heat-shrinkable tubing designed to provide environmental sealing of an electrical splice in an automotive environment. Moisture may enter a splice directly or indirectly via capillary action between individual wires, thus causing corrosion.

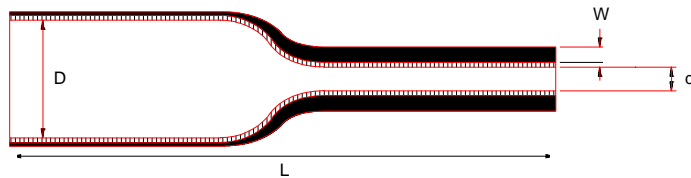
This effect is accelerated by variations in temperature. The tubing is centred over the splice area and during heating the adhesive melts and is 'squeezed' around where the wires are crimped or welded and between the conductors by the shrinking action of the sleeve. The

installed product provides low profile mechanical protection against flexing, abrasion and cut-through as well as electrical insulation. There are four sizes to cover the range of splice profiles.

Temperature rating

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

Ordering information



Inside diameter		Wall thickness		Length	Ordering description
D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Total wall recovered after heating	L (nom)		
mm	mm	mm	mm	mm	
5.7	1.27	1.5	50.0		RBK-VWS-125-NR1-X
8.0	1.65	1.8	50.0		RBK-VWS-125-NR2-X
10.8	2.40	2.2	65.0		RBK-VWS-125-NR3-X
17.78	4.45	2.41	75.0		RBK-VWS-125-NR4-X

Refer to the Installation Instructions before selecting size. (PIP-004)

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

Standard colours

Colour	Clear
Code	X

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.

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Performance

	Longitudinal change:	0 to -10%
	Split resistance:	No splitting at +200°C
	Strain relief:	Insulation resistance does not drop below 2 x 10 ⁸ ohms (min) after 50 N at 100 mm/min.
	Heat ageing:	No cracking of jacket at +125°C after 3000 h Insulation resistance 2 x 10 ⁸ ohms (min)
Sequential:	The installed product must pass insulation resistance test of 2 x 10 ⁸ ohms (min) after each of the following tests:	
	Cold impact:	No cracking of jacket at -40°C after 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
	Flex test:	180° flex with differing loads for each sleeve size (SEFT 527)
	Fluid soak:	Samples soaked for 30 mins at +100°C in: Engine oil ISO 1817 No. 1 Automatic transmission fluid Dexron™ 2
	Fluid splash:	Each sample immersed in each of the following fluids for 10 s at 30 min intervals for total of 24 hrs Diesel fluid ISO 1817 Liquid F Brake fluid Dot 4 Gunk™ degreaser Fluid C ISO 1817 1985 Fuel 3 ISO 1817 1985 Car wash detergent 1% Tapol 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 6640.

Specifications

Raychem Specification RK 6640.

Installation instructions available on request.

Material Safety Data Sheet available on request.

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