

Sealing and Protection for Wire Bundles, Connectors, Terminals and Splices



**RBK-ILS-125/  
RBK-ILS-125-NR500  
Tubing**

Sealing and protection of inline wire splices and grounding ring terminals.



**RBK-ILS-125 Tubing**

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 centered 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, eg. RBK-1 to aid selection. The compact size of RBK-ILS-125 suits process line harness assembly.

**RBK-ILS-125-NR500 Tubing**

Highly over-expanded product which allows the product to be positioned and installed after the ring terminal has been crimped or ultrasonically welded to the ground wires.

**Benefits**

- Excellent environmental seal
- Mechanical protection against flexing, abrasion and cut-through
- Small cross-sectional profile
- Simultaneous sealing, protection and insulation – in one process pass
- Rapid, simple installation – over-expanded sizes allow placement of tubing over ring terminal after ground wires have been terminated
- Applications versatility – one tubing size covers a broad range of ground wire sizes and wire combinations
- Superior strain relief and mechanical protection – provided by tough outer jacket, plus tubing and adhesive combination
- Established application and installation procedures – meeting most harness production processes
- RoHS/ELV compliant

Dual-Wall, Moisture Proof, Heat-Shrinkable Tubing to Protect Electrical Splices

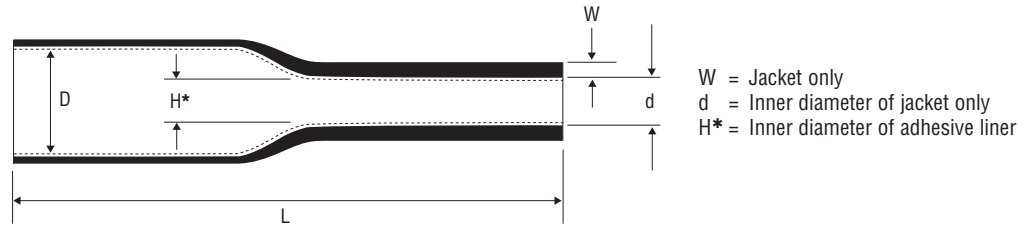
**Product Features**

**RBK-ILS-125 Tubing**

- Continuous operating temperature from -40°C up to +125°C (3000 hrs)
- Flame retarded
- 4:1 shrink ratio

**RBK-ILS-125-NR500 Tubing**

- 5:1 expansion ratio, allowing installation over terminal



**Product Dimensions**

Size	Inside Diameter			Wall Thickness (mm)		Length** L (nom)	Ordering Description
	D (min) Expanded as Supplied	H (max)* Recovered after Heating	d (max) Recovered Jacket after Heating	W (min) Recovered Jacket after Heating	W + Adhesive Liner (min)		
NR1	5.75	1.25	2.65	0.6	1.15	50	RBK-ILS-125-NR1
NR2	7.50	1.65	3.45	0.7	1.4	50	RBK-ILS-125-NR2
NR3	11.00	2.40	4.65	0.8	1.8	65	RBK-ILS-125-NR3
NR3A	14.00	3.00	5.90	0.9	2.15	65	RBK-ILS-125-NR3A
NR4	18.30	4.35	7.40	0.9	2.2	75	RBK-ILS-125-NR4

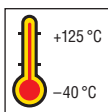
Refer to the Installation Guidelines document before selecting size (PIP-019).  
The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage.

\*) Nominal values for reference only.

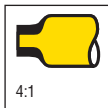
\*\*\*) Other lengths are available subject to special order.

**Ordering Information**

<b>Standard Colour</b>	Black (0)				
<b>Installation</b>	The product may be installed using a TE Automotive RBK-ILS Processor or other recommended application equipment. Consult your local TE Automotive office for more information.				
<b>Size Selection</b>	Refer to PIP-019				
<b>Ordering Description</b>	Specify product name, size and colour (for example RBK-ILS-125-NR)				
<b>Specifications/Approvals</b>	<table border="1"> <thead> <tr> <th>Series</th> <th>TE</th> </tr> </thead> <tbody> <tr> <td>RBK-ILS-125</td> <td>RK-6638</td> </tr> </tbody> </table>	Series	TE	RBK-ILS-125	RK-6638
Series	TE				
RBK-ILS-125	RK-6638				



Operating Temperature Range



Shrinking Ratio



Shrink Temperature



Flame Retarded



Fluid Resistant

**Note:** This is a non-preferred product.  
Please refer to QSZH datasheet on page 17.  
Contact TE Automotive Sales representative.