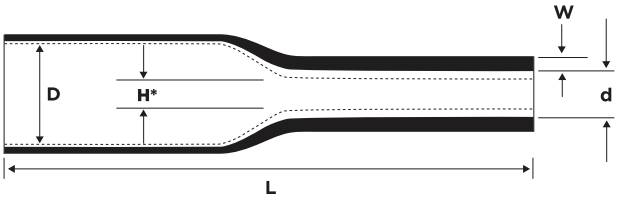
QuickSealZH-125

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



W = Jacket only
d = Inner diameter of jacket only
H* = Inner diameter of adhesive liner

- **Excellent Environmental Sealing (2 x 10^8 Ohms minimum after 24 hrs immersion in 5% Na Cl)**
- **Quick installation**
- **Zero Halogen**
- **Inspectable after installation**
- **Mechanical Protection against flexing, abrasion and cut-through**
- **Small cross-sectional profile**
- **Temperature rated to 125°C**

QSZH-125 is a Zero Halogen dual wall, heat-shrinkable tubing designed to provide environmental sealing, mechanical and electrical protection of in-line splices in an automotive environment.

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 wire cores by the shrinking action of the sleeve. The installed QSZH-125 tube provides low profile mechanical protection against flexing, abrasion and cut-through as well as electrical insulation.

There are five QSZH-125 sizes to cover a wide range of typical automotive splice configurations having a maximum of seven wires on either side.

The sleeves are marked 1, 2, 3, 3A and 4 to denote the size.

Ordering Information

Inside Diameter			Wall Thickness			
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)*	L (nom)	
mm	mm	mm	mm	mm	mm	Ordering Description
5.75	1.25	2.65	0.6	1.15	50	QSZH-125-NR1
7.50	1.65	3.45	0.7	1.4	50	QSZH-125-NR2
11.00	2.40	4.65	0.8	1.8	65	QSZH-125-NR3
14.00	3.00	5.90	0.9	2.15	65	QSZH-125-NR3A
18.30	4.35	7.40	0.9	2.2	75	QSZH-125-NR4

Refer to the Installation Guidelines before selecting size (PIP-101)

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

* Nominal values for reference only.

Standard colours	Jacket	Adhesive
	Clear	Black

Installation

The product may be installed using a Tyco RBK-ILS-Processor or other recommended application equipment. Consult your local Tyco Electronics office for more information.

Performance	Longitudinal change	0 to -10%
	Tensile Strength	10MPa min
	Ultimate Elongation	250% min
	2% Secant Modulus	137MPa min
	Split Resistance	No splitting at 200°C
	Heat Age	No cracking of jacket at 125°C x 3000 h + Insulation Resistance 2 x 10^8 ohms (min) after 60 minute immersion in 5% NaCl
	Flammability	100mm/min maximum FMVSS302
	Scrape Abrasion	500 cycles min to cut through (ISO6722)
	Dielectric Strength	16MV/m min (IEC60243)
	Volume Resistivity	1.0 X 10^{12}ohm-cm
Sequential Tests		Followed by Insulation Resistance 2 x 10^8 ohms (min) after 60 minute immersion in 5% NaCl
	Cold Impact	No cracking of jacket at -40°C for 4 h
	Accelerated Ageing	+130°C for 168 h
	Thermal Shock	5 cycles +130°C for 1 h followed by immersion in saline solution at 0 to +5°C for 30 mins.
	Temperature/Humidity	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 (BS2011)
	Flex Test	180° Mandrel Bend
	Fluids Resistance	30 minutes immersion at 23°C in the following fluids Engine oil ISO 1817 No 1 Automatic Transmission Fluid Dexron™,3 Diesel Fuel to ISO 1817 Liquid F Brake fluid Dot 4 Gunk™ Degreaser Fluid C*1 to ISO 1817 Fuel 3*1 to ISO 1817 Wash Fluid (1% Teepol/Water) by volume Battery Acid to BS3031 (S.G.1.25) Engine Coolant/Antifreeze 50/50 by volume
Specifications	Raychem Specification RK6771	