



# Wire Harnessing Bundling & Protection

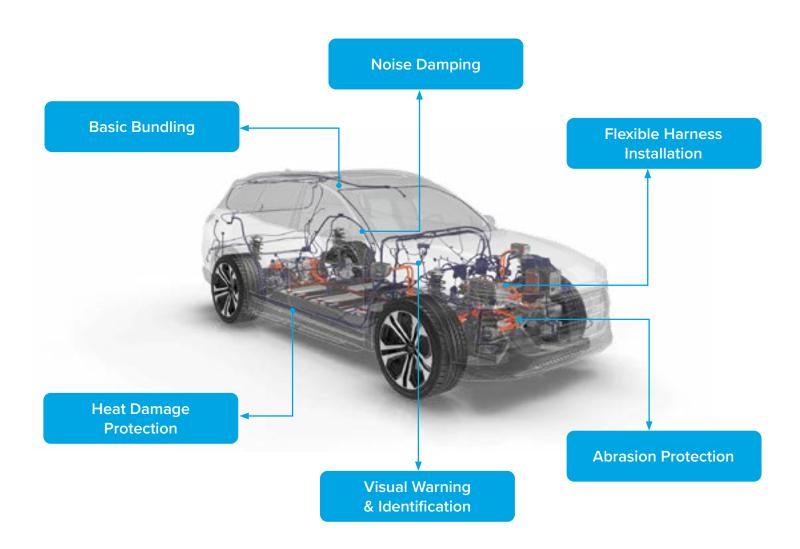
Adhesive Tape Solutions for Automotive Electrical Distribution Systems

## Introduction

#### Wire Harnessing Bundling & Protection

In the automotive industry, today's cars have transformed into high-performance computers packed with sensors and highly complex control systems resulting in wire harnesses of up to 8 km of cables for data and energy transmission. Based on the extensive know-how from tesa in adhesive formulations, backing technologies and coating processes, we can offer reliable, efficient and high-performance tapes for secure bundling & protection of a wide range of applications in wire harnessing. Thereby, all tapes are designed to fulfill the relevant industry standards and specifications of the OEMs and Wire Harness Manufacturers all around the globe.

Our adhesive tape solutions enable space-saving and precise routing as well as heat, abrasion and noise protection. In addition, our products withstand extreme temperatures and environmental conditions providing long-lasting performance and reliability. We are highly committed to our customers such as Wire Harness Manufacturers and OEMs worldwide supporting them in the automotive trends of today and tomorrow, such as e-mobility, sustainability, and production automation.



Contributing to Sustainability

# Achieving a higher level of sustainability is an important goal for many of our customers – just as it is for us

As a leading provider of adhesive solutions, we have always taken our social and environmental responsibility very seriously. Sustainability has been one of the key strategic targets at tesa for a number of years.

We further increase the importance of our sustainability strategy with five highly ambitious action areas. This also applies to our wire harnessing tapes.



#### Our five strategic action areas with high impact

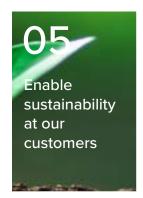
To meet our commitment, we have defined a set of goals and indicators aligned with our Sustainability Agenda. This also applies to the packaging tapes, which we use for our carton boxes.











Our new assortment	tesa® 61638	tesa® 61036
Backing	PCR PET fleece	PCR PET cloth
Recycled Content	80%	100%
Adhesive	Waterborn acrylic	Advanced acrylic
Thickness	260 μm	260 μm
Noise damping	Class C	Class A
Abrasion protection 5mm/ 10mm	Class A/B	Class D/D
Temperature resistance	105° C	150° C

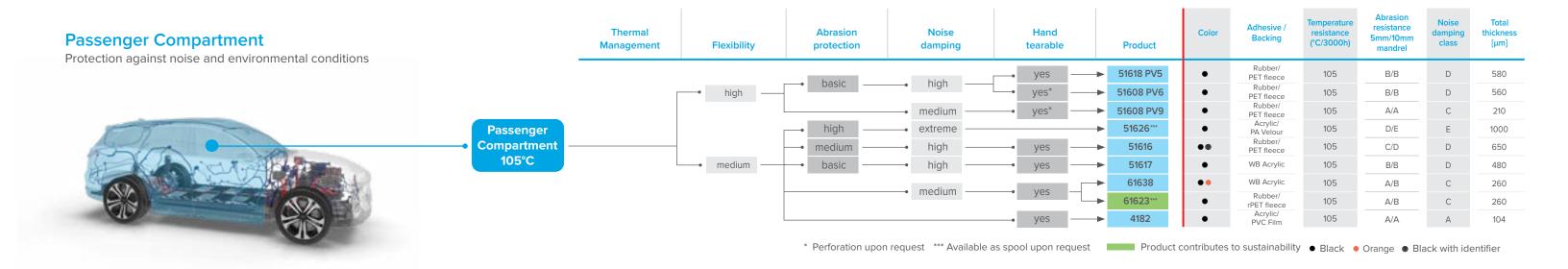
Want to know more?

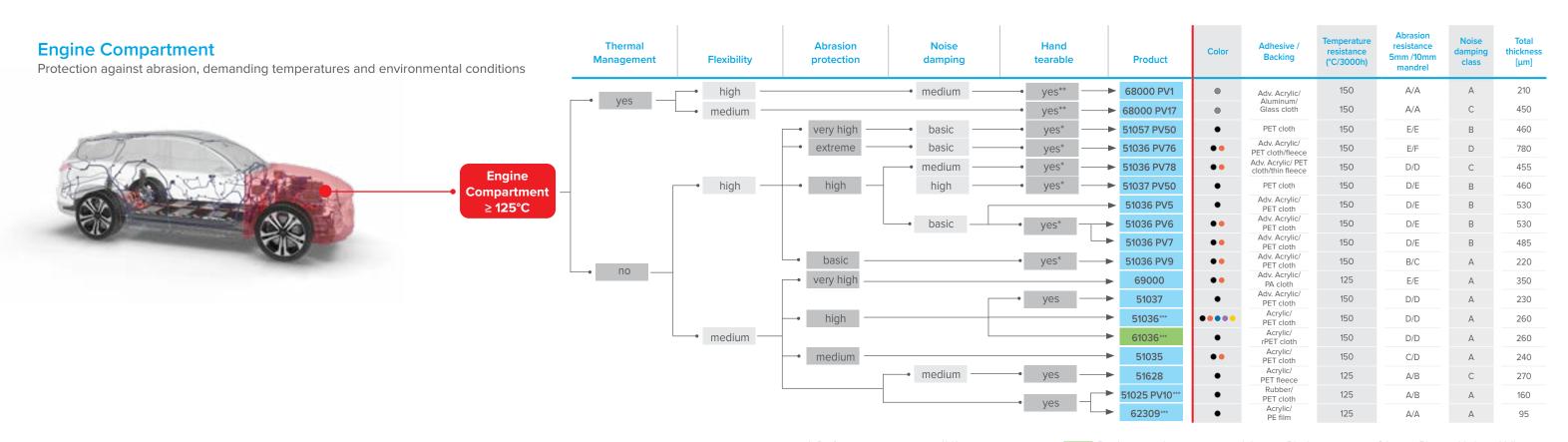
To learn more about our Sustainability Agenda, visit our website: www.tesa.com/en/about-tesa/sustainability



# **Best Decision**

### Choosing the Right Product for Your Application





<sup>\*</sup> Perforation upon request \*\* Kiss-cut upon request Product contributes to sustainability Black Orange Silver Blue Violet Yellow

<sup>\*\*\*</sup> Available as spool upon request

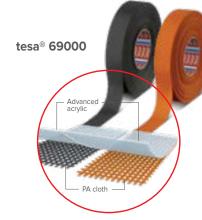
Our Building Blocks

By using state of the art backing materials and our innovative adhesive technologies, we tailor solutions to meet existing and future TIER and OEM requirements. tesa's global production footprint ensures short supply chains and supplies safety for our customers around the globe.









# tesa® Sleeve Assortment

With our versatile converting capabilities, we are able to provide product solutions as well as sleeves. Our sleeve solutions are well appreciated in the market as VAVE replacements for other harness coverings such as braided sleeves or convoluted tubes. Our sleeves are minimizing the adhesive contact to the wires to increase flexibility and assembly efficiency. Further benefits are weight and space saving.



#### tesa Supersleeve® PV7X series

- High abrasion resistance due to double-layer product design
- Also suitable for smalldiameter harness branches



#### tesa® Spiralsleeve PV5X series

- Combines the well-known spiral application of tapes with the flexibility of sleeves
- Adhesive-to-adhesive closure guarantees secure bonding



#### tesa® Sleeve PV9X series

- · Superior flexibility
- Cost-efficient sleeve version due to single-layer product design



#### tesa® Sleeve 68000

- Provides temperature resistance suitable for engine compartment
- Acrylic adhesive is compatible with halogen-free cable jacketing



#### tesa Supersleeve® PV6X series

- High noise damping and/or abrasion resistance due to double-layer product design
- Adhesive-to-adhesive closure guarantees secure bonding



Scan or click the code to get access to the application videos of our sleeve assortment.

# Performance Classification According to Typical OEM Specifications 1)

Temperature								
Class	T1	T2		T3	T4		T5	Т6
[°C]	-40 to 85	-40 to 105	-40	to 125	-40 to 1	50	-40 to 175	-40 to 200
Noise damping								
Class	А	В		С			D	Е
Attenuation db [A]	0 to ≤ 2	> 2 to ≤ 5		> 5 t	to ≤ 10 >		10 to ≤ 15	> 15
Level of noise damping	-	basic		medium		high		extreme
Abrasion protection								
Class	А	В		С	D		Е	F
# of strokes	< 100	100 - 499	500	0 - 999	1000 - 4999		5000 - 14999	15000 - 29999
Level of abrasion protection	-	basic	medium		high		extreme	supreme

<sup>1)</sup> tests are based on the SAE 2192 / ISO 6722 norms which reflect the tests required by most OEM wire harness specifications

# **Application Manual**

- Begin the taping process at the terminals going towards the main harness.
- 2 Wrap the main harness.
- For hand tearable tapes:

  Tear the tape apart, starting from the upper edge down to the lower edge.
- For non hand tearable tapes:
  Use appropriate tools, such as the tesa® ring cutter (tesa® 6291), available in two different versions.
- 5 Cut through the backing side of the tape and don't allow the blade to touch the adhesive.
- 6 After the tape separation, it is important to firmly press down the tape end with your thumb.























Our management system is certified according to the standards ISO 9001, IATF 16949, and ISO 14001. All our products delivered to automotive customers are listed in the International Material Data System (IMDS).

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