



ELECTRICAL SYSTEMS PROTECTION

Tape Solutions for Automotive Electrical Distribution Systems



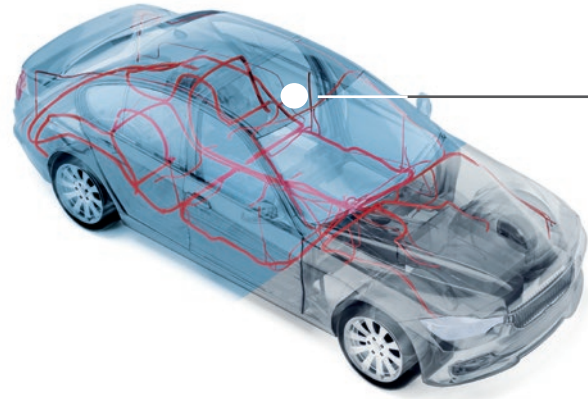
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BEST DECISION

Choosing the Right Product for Your Application

Passenger compartment

Protection against noise and environmental conditions



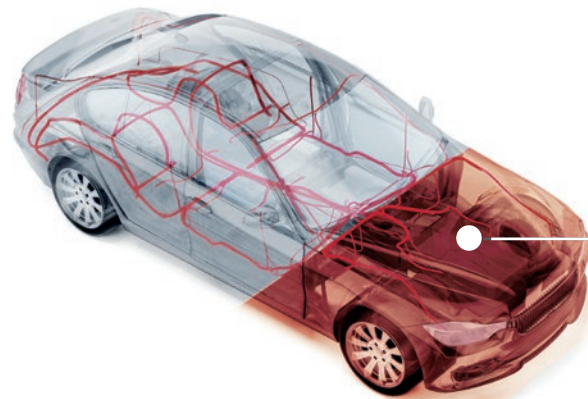
Passenger Compartment
105°C

Thermal Management	Flexibility	Abrasion protection	Noise damping	Hand tearable	Product	Color	Adhesive / Backing	Temperature resistance (°C/3000h)	Abrasion resistance 5mm/10mm mandrel	Noise damping class	Total thickness [µm]	
Passenger Compartment	high	basic	high	yes	51618 PV5	●	Rubber/ PET fleece	105	B/B	D	580	
			medium	yes*	51608 PV6	●	Rubber/ PET fleece	105	B/B	D	560	
			high	yes*	51608 PV8/9	●	Rubber/ PET fleece	105	A/A	C	210	
		high	very high		51626	●	Acrylic/ PA Velour	105	D/E	E	1000	
			high		51606	●	Rubber/ PET fleece	105	D/D	D	800	
	medium	medium	basic	high	yes	51616	●●	Rubber/ PET fleece	105	C/D	D	650
				high	yes	51617	●	Rubber/ PET fleece	105	B/B	D	450
		medium			51608/9	●	Rubber/ PET fleece	105	A/B	C	280	
					51618/9	●●	Rubber/ PET fleece	105	A/B	C	250	
					51623	●	Rubber/ PET fleece	105	A/A	C	230	
				4173	●	Acrylic/ PVC Film	105	A/A	A	126		
				4182	●	Acrylic/ PVC Film	105	A/A	A	104		

* Perforation upon request ** Kiss-cut upon request ● Black ● Orange ●● Black with identifier A = none | B = basic | C = medium | D = high | E = very high

Engine compartment

Protection against abrasion, demanding temperatures and environmental conditions



Engine Compartment
≥ 125°C

Thermal Management	Flexibility	Abrasion protection	Noise damping	Hand tearable	Product	Color	Adhesive / Backing	Temperature resistance (°C/3000h)	Abrasion resistance 5mm /10mm mandrel	Noise damping class	Total thickness [µm]	
Engine Compartment	yes	high	medium	yes**	68000 PV1	●	Adv. Acrylic/ Aluminum/ Glass cloth	150	A/A	A	210	
		medium		yes**	68000 PV17	●	Adv. Acrylic/ Aluminum/ Glass cloth	150	A/A	C	450	
	high	very high	basic	basic	yes*	51039 PV50	●●	Adv. Acrylic/ Adv. PET cloth	150	E/E	B	530
				high		51039 PV60	●●	Adv. Acrylic/ Adv. PET cloth	150	E/E	B	530
			high		51039 PV70	●●	Adv. Acrylic/ Adv. PET cloth	150	E/E	B	490	
			high		51036 PV76	●	Adv. Acrylic/ PET cloth/fleece	150	D/E	D	780	
			high		51036 PV5	●●	Adv. Acrylic/ PET cloth	150	D/E	B	530	
		high	basic	basic	yes*	51036 PV6	●●	Adv. Acrylic/ PET cloth	150	D/E	B	530
				high		51036 PV7	●●	Adv. Acrylic/ PET cloth	150	D/E	B	485
			medium			51022 PV60	●	Acrylic/ PET cloth	150	D/D	B	440
			basic	yes*	51036 PV9	●●	Adv. Acrylic/ PET cloth	150	B/C	A	220	
			medium			51022 PV90	●	Acrylic/ PET cloth	150	B/C	A	210
	medium	very high	very high	very high		69000	●●	Adv. Acrylic/ PA cloth	125	E/E	A	350
			high		51627	●	Acrylic/ PA velour	125	D/E	E	1000	
		high	high	yes	51037	●	Adv. Acrylic/ PET cloth	150	D/D	A	230	
			medium		51036	●●●●	Acrylic/ PET cloth	150	D/D	A	260	
		medium	medium	medium	yes	51035	●●●●	Acrylic/ PET cloth	150	C/D	A	240
				medium	yes	51628	●	Acrylic/ PET fleece	125	A/B	C	270
			medium	yes	51025	●	Rubber/ PET cloth	125	A/B	A	160	
			medium	yes	62309	●	Acrylic/ PE film	125	A/A	A	95	

* Perforation upon request ** Kiss-cut upon request ● Black ● Orange ● Silver ● Blue ● Violet A = none | B = basic | C = medium | D = high | E = very high

Performance classification according to typical OEM specifications¹⁾

Temperature	Performance classification					
Class	A/T1	B/T2	C/T3	D or T4	E or T5	F or T6
[°C]	-40 to 85	-40 to 100/105	-40 to 125	-40 to 150	-40 to 175	-40 to 200

Abrasion protection	Performance classification					
Class	A	B	C	D	E	F
# of strokes	< 100	100 - 499	500 - 999	1000 - 4999	5000 - 14999	15000 - 29999
Level of abrasion protection	-	basic	medium	high	very high	extremely high

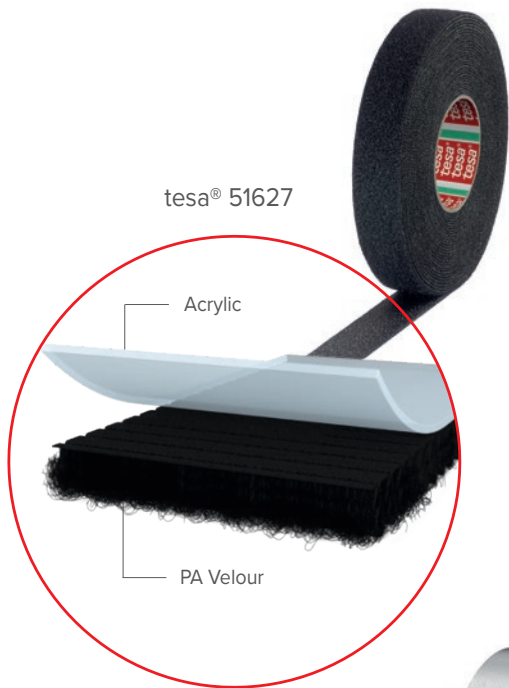
Noise damping	Performance classification				
Class	A	B	C	D	E
Attenuation db [A]	0 to ≤ 2	> 2 to ≤ 5	> 5 to ≤ 10	> 10 to ≤ 15	> 15
Level of noise cancelling	-	basic	medium	high	very high

¹⁾ tests are based on the SAE 2192 / ISO 6722 norms which reflect the tests required by most OEM Wire Harness specifications

OUR BUILDING BLOCKS

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 supply safety for our customers around the globe.

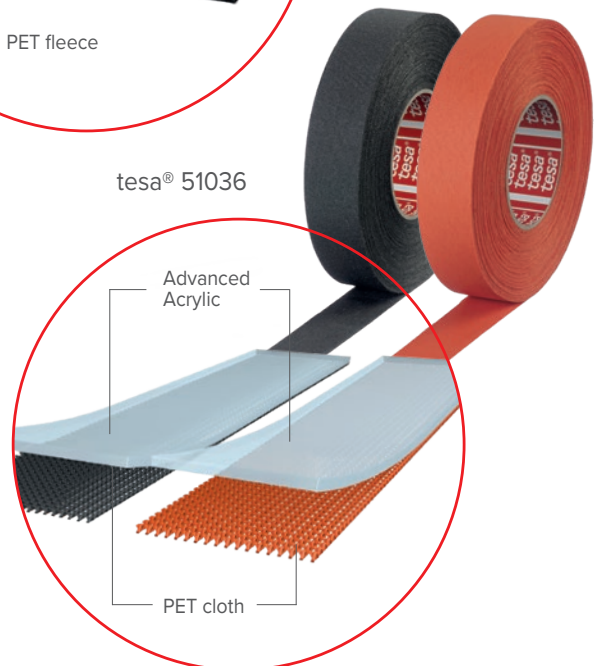
tesa® 51627



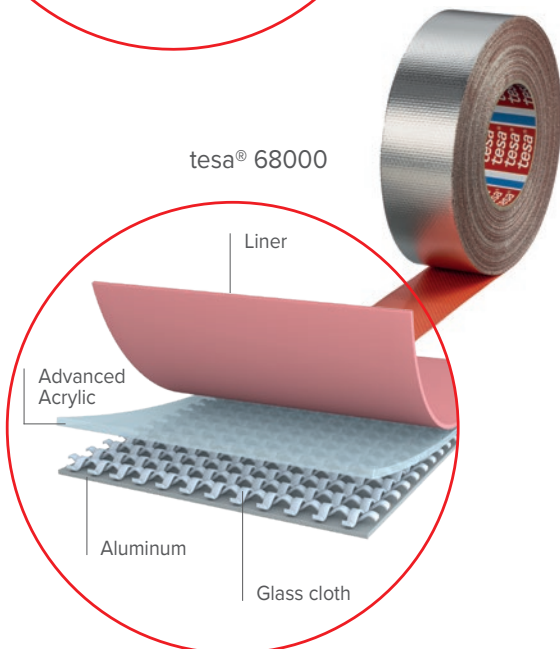
tesa® 51618



tesa® 51036



tesa® 68000



Did You Know?

We also offer an assortment for E-Mobility with product features such as:

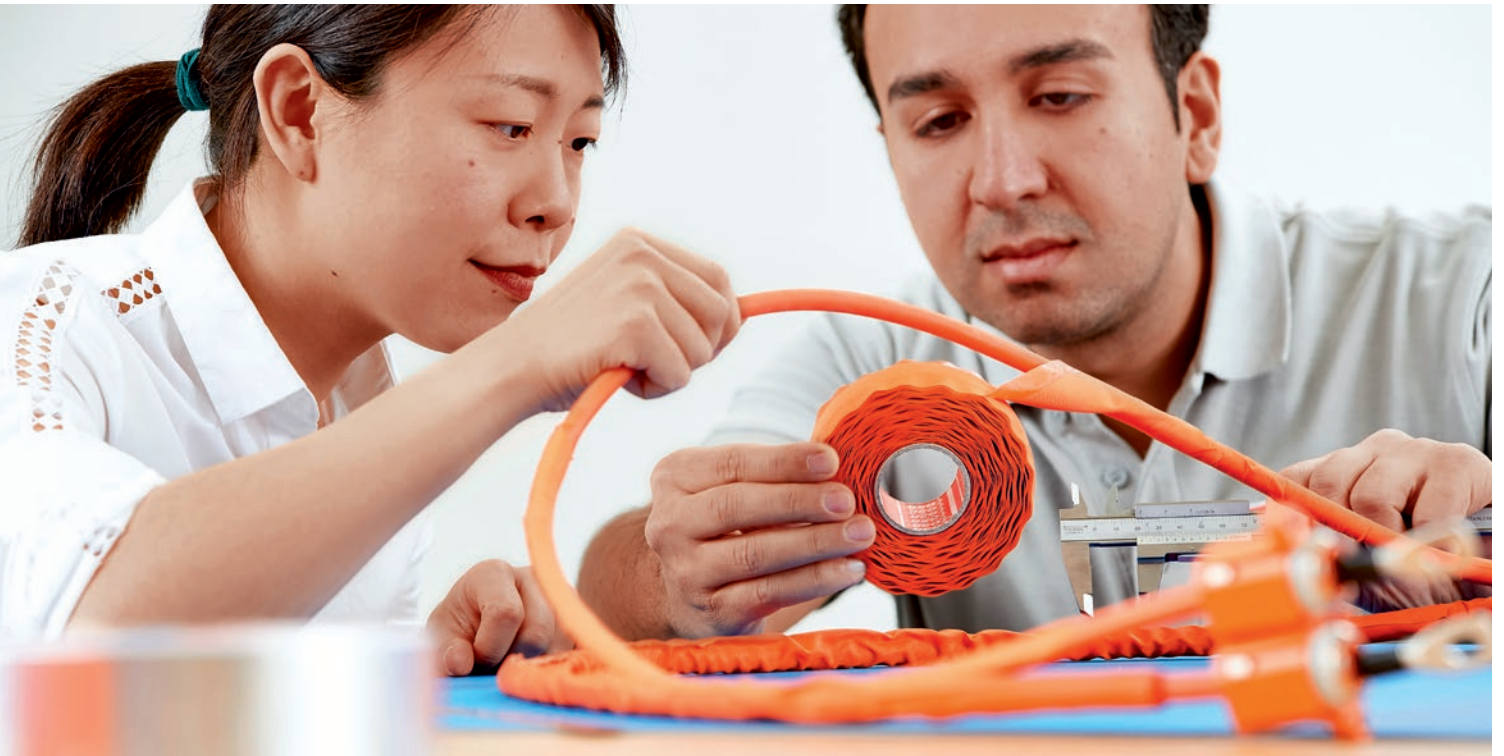
- color marking for high voltage and 48V lines
- very high abrasion resistance
- sleeve solutions for weight and space saving
- EMI shielding solutions



tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data mentioned above are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. The user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.

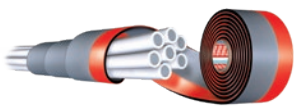
MAXIMUM FLEXIBILITY

Efficient Space Utilisation in Narrow Areas



tesa® Sleeve assortment

With our versatile converting capabilities, we are able to provide product solutions also as sleeves. 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.



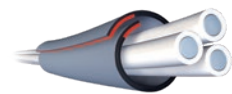
tesa® Spiralsleeve PV5X series

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



tesa Supersleeve® PV6X series

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



tesa Supersleeve® PV7X series

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



tesa® Sleeve PV8X series

- Superior flexibility
- No adhesive contact to wires
- Adhesive-to-adhesive closure guarantees secure bonding

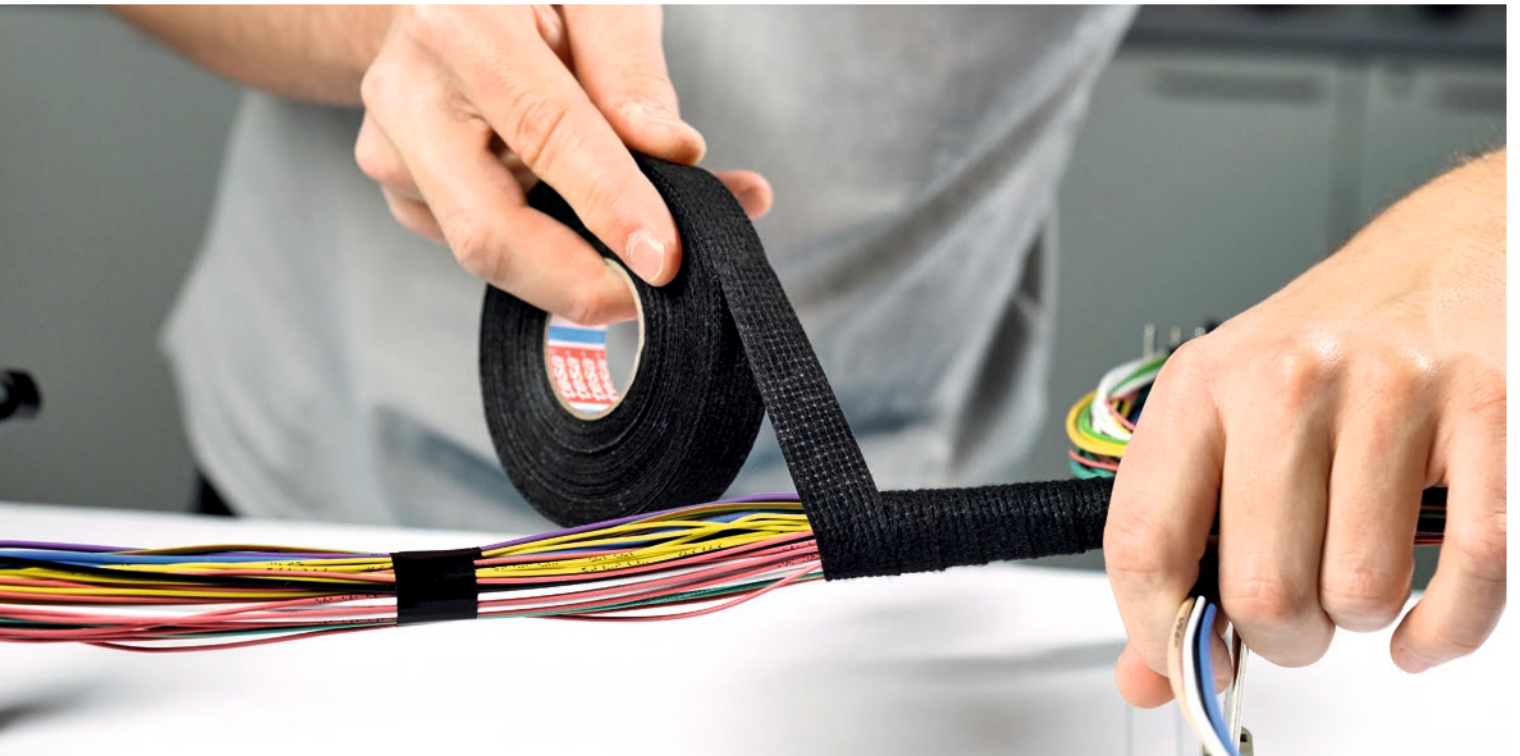


tesa® Sleeve PV9X series

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



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



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).

tesa SE

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