CABLE MOUNTING IN PASSENGER COMPARTMENTS

Our Low-VOC Tape Solutions for the Automotive Industry

Robust and Durable Mounting Solutions – Lifelong

1. Headliner
2. Door modules
3. Seat modules
4. Car body interior
5. Instrument panel
6. Pillars
7. Bumpers

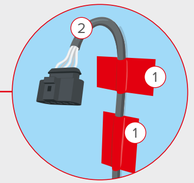
Purpose and benefits of our cable mounting solutions

For greater driver convenience, more electronic devices are integrated into the vehicle environment. This leads to more and thicker cable harnesses in the car in several components.

Based on our vast experience, we provide for fast, secure, and the long-lasting mounting of cables with a specially developed assortment of low-VOC tape for better air quality inside vehicles.

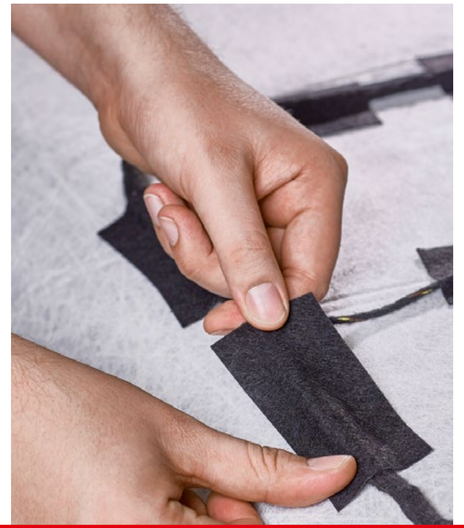
Cable mounting is an elaborate undertaking. Different types of cable harnesses need to bond to various substrates, from headliner material to plastic parts and the car body.

Our comprehensive tape assortment offers high peel and shear resistance in combination with a high initial tack. This ensures a reliable bond of the cable harness from the very beginning.



1. Very strong and reliable mounting, e.g. on headliners – both when strips are applied across or along the cable harness.

2. Even heavy connectors are kept right in place under harsh application conditions.



The main **requirement of cable mounting** is to ensure a secure bond between the cables and the surface
- immediately upon attachment
- during transport and assembly
- during the entire vehicle lifetime

Our tapes are especially designed to guarantee the optimal **bonding performance**
- on different substrate materials
- on different contoured geometries

The soft and flexible backing of our tape simultaneously provides noise prevention.

We have developed **comprehensive solutions** that fulfill all individual application requirements to
- improve the application process
- reduce process costs
- guarantee the highest flexibility in production
- enable fast and ergonomic mounting
- prevent rattling noises

Product and security features

We understand the complete application process and have in-depth insight into requirements for cable harness attachment into the vehicle.

For this reason we provide consultancy and support for
- choosing the optimal product and the right dispensing solution
- implementing effective application methods
- testing according to OEM/OES requirements

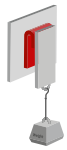
Save Costs with Optimal Application Processes

	Product description and application	Tape	Dispenser
Die-cut roll			
	Customized kiss cuts ready to be applied. Exchangeable magazine for a faster process.	tesa® 54118 	
Endless roll			
	Customized lengths can be set and adapted at the work station. Fast dispensability which enables a faster process.	tesa® 50118 	
		tesa® 50204 	

Our cable mounting assortment

Our product assortment is designed to perform on several components and various surfaces.
Further benefits of cable mounting system solutions include:

- Permanent bond during vertical storage and transportation
- High peel adhesion, shear resistance, and initial tack
- Fast mounting processes
- No maintenance or investment costs
- Low adverse health effects
- Low VOC for better air quality inside vehicles
- Weight reduction as compared to other bonding technologies
- Noise-damping properties

	Single-sided			
	ULTRA LOW VOC		LOW VOC	
	tesa® 50118 PV0	tesa® 50118 PV1	tesa® 50118 PV2	tesa® 50204
Thickness µm	570	540	540	180
Backing	White fleece	White/black fleece	White fleece	Blue filmic
Adhesive	Water-based acrylic	Water-based acrylic	Tackified acrylic	Tackified acrylic
Temperature resistance (°C)	160	160	200	200
Conformability	••	••••	••••	••
Vibration and acoustic damping	•••	•••	•••	•
Initial peel (material performance) 	Headliner PET fleece or crepe paper			
	•••	••••	••••	••••
	Difficult headliner (PET/PP fleece)**			
	••	•••	••••	•••
Static peel (transport simulation) 	Headliner PET fleece or crepe paper			
	••••	••••	••••	••••
	Difficult headliner (PET/PP fleece)**			
	•••	•••	••••	•••
U-static shear (cable repulsion) 	Headliner PET fleece or crepe paper			
	•••	••••	••••	••••
	Difficult headliner (PET/PP fleece)**			
	••	•••	••••	•••

	Double-sided
	tesa® 4914 LOW VOC
Thickness µm	200
Backing	Non-woven
Adhesive	Tackified acrylic

The low-VOC data is obtained by a certified third party laboratory and should be considered representative. Please refer to the OEM's individual target values.

LOW VOC

According to the VDA278 analysis, our cable mounting tapes do not contain any single substances restricted by the GB regulation (China), the indoor concentration guideline by JAMA (Japanese Automobile Manufacturers Association), or the Japanese Ministry of Health, Labor, and Welfare (MHLW).

ULTRA LOW VOC

For optimal consideration of low total VOC load, we provide an exclusive product range. Our ultra-low VOC portfolio shows, in addition, excellence in total VOC concentration.

** tesa definition:
peel adhesion after 20 minutes < 2.1 N/cm and very low "static peel resistance"

- • Adequate
- •• Good
- ••• Very good
- •••• Excellent

12/2016

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

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