

**VDE Test Report**

Report No. :	250713-TL6-1
VDE File No. :	5018795-5430-0001/250713
Date of issue..... :	2018-08-17
Laboratory :	VDE Testing and Certification Institute
Address :	Merianstrasse 28 63069 Offenbach/Main; Germany
Testing location/ address :	VDE Testing and Certification Institute Merianstrasse 28 63069 Offenbach/Main; Germany
Applicant's name :	BAKS - Kazimierz Sielski
Applicant's address :	ul. Jagodne 5; 05-480 KARCZEW; POLAND
Applied standard(s) :	DIN EN 61537 (VDE 0639):2007-09; EN 61537:2007
Test item description :	Cable carrier systems for electrical installation
Type reference(s) :	Trunking system TSL, TSJ

Test sample condition :	☒ Non-damaged sample
	Remark:
Sample entry date :	2018-05-25
Date (s) of performance of tests..... :	2018-07-06 – 2018-08-17

Tested by..... :	P. Hüfner
Name, Signature..... :	(Authorization of test report) 
Function..... :	Testing engineer
Verified by..... :	R. Lehrer
Name, Signature..... :	
Function..... :	Reviewer

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Disclaimer:					
This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp. The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.					

**Possible test case verdicts:**

Test case does not apply to the test object :	N/A
Test object does meet the requirement..... :	P (Pass)
Test object does not meet the requirement :	F (Fail)

Final Verdict:**P****F**

Remark

Environmental conditions (if applicable)	Ambient temperature	Atmospheric pressure	Relative humidity
Rated values..... :	15-25 °C	860-1060 hPa	30-60 %
Verified values	23 °C	N/A	N/A

**Description of testing samples:**

Representative for the cable carrier system TSL and TSJ of manufacturer BAKS, the following listed types have been tested.

Designation	Type
Trunking system	TSL50H50/3
	TSL300H100/3
	TSL200H200/3
	TSJ50H50/3
	TSJ300H100/3
	TSJ200H200/3
Connectors	LKM
Screws	SGKM6
	SGNM6
	SGM6

Test procedure:

On the request of the applicant the test of the electrical continuity was carried out on the selected samples according to DIN EN 61537 (VDE 0639):2007-09; EN 61537:2007, Sub-clause 11.1.

Test conditions:

- Test arrangement acc. to figure 9 of. DIN EN 61537 (VDE 0639):2007-09; EN 61537:2007
- Test current 25 A
- Frequency 50 Hz
- Measuring points in the distance of 50 mm to each side of the joint
- Measuring points without joint in a distance of 500 mm

Test results:

The calculated impedances shall not exceed 50 mΩ across the joint and 5 mΩ/m without joint.

The measured voltage drops and the calculated impedances are summarized in the following tables.



Table: Impedance without joint		
Type	Measured voltage drop	Calculated impedance
TSL50H50/3	10,1 mV	0,81 mΩ/m
TSL300H100/3	3,3 mV	0,26 mΩ/m
TSL200H200/3	3,1 mV	0,25 mΩ/m
TSJ50H50/3	8,6 mV	0,69 mΩ/m
TSJ300H100/3	2,8 mV	0,22 mΩ/m
TSJ200H200/3	2,6 mV	0,21 mΩ/m

**Table: Impedance across the joint**

Type	Connector + Screws	Measured voltage drop	Calculated impedance
TSL50H50/3	LKM + SGKM6	7,1 mV	0,28 mΩ
	LKM + SGNM6	6,0 mV	0,24 mΩ
	LKM + SGM6	5,8 mV	0,23 mΩ
TSL300H100/3	LKM + SGKM6	3,3 mV	0,13 mΩ
	LKM + SGNM6	3,3 mV	0,13 mΩ
	LKM + SGM6	3,5 mV	0,14 mΩ
TSL200H200/3	LKM + SGKM6	1,9 mV	0,08 mΩ
	LKM + SGNM6	2,5 mV	0,10 mΩ
	LKM + SGM6	2,3 mV	0,09 mΩ
TSJ50H50/3	LKM + SGKM6	4,7 mV	0,19 mΩ
	LKM + SGNM6	4,6 mV	0,18 mΩ
	LKM + SGM6	4,7 mV	0,19 mΩ
TSJ300H100/3	LKM + SGKM6	2,9 mV	0,12 mΩ
	LKM + SGNM6	2,8 mV	0,11 mΩ
	LKM + SGM6	3,2 mV	0,13 mΩ
TSJ200H200/3	LKM + SGKM6	1,8 mV	0,07 mΩ
	LKM + SGNM6	2,5 mV	0,10 mΩ
	LKM + SGM6	2,0 mV	0,08 mΩ

Testing and measuring equipment:

Description of test equipment	Inventory-Nr.	Manufacturer
Alternating-Current source	1430308	Reo
Current clamp	1090723	Kyoritsu
Multimeter	1060781	Agilent