



Test
TS EN ISO/IEC 17025
AB-0342-T

AB-0342-T

144421835

08/25

TÜV Rheinland
Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.
Saniye Ermutlu Sokak Çolakoğlu Plaza B Blok No :12 Kozyatağı-İSTANBUL

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Test Report

ERTKA ELEKTRİK MÜH. SAN. TİC. LTD.

ORTA MAH.-TEPEÖREN TUZLA, ERDEM SAN. SİT. F4 BL NO:3, İSTANBUL, Türkiye

Report No. 144421835
Buyer /
Test Item. : 'Kablo Pabucu, İzolatör
Article No. : '12050-8 50-M8 SKP Kablo Pabucu, 32004 2Fx3F Bara Mesnet İzolatörü, 32010 3x1F Yatay Bara Mesnet İzolatörü, 31002-8 M8 40 mm Tek cıvatalı + Kör Somonlu Mesnet İzolatörü'
Manufacturer : /
Article No. : /
Test Specification : RoHS Directive in electrical and electronic equipment 2011/65/EU & Amendment Directive (EU) 2015/863

Applicant's Provided -
Care Instruction/Label:

Sample Receiving date: 2025-07-24
Testing Period: 2025-07-24 to 2025-08-01
Report Date: 2025-08-01
Test Result: Pass

TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş. accredited by TÜRKAK under registration number AB-0342-T for ISO/IEC 17025-2017 as test laboratory

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of the test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following, pages which are part of this report

For and on behalf of
TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.

Elif Kocasalli / CR Assistant
Project Manager

Kivanc Karatas / Chemical
Laboratory Manager

TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.

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The results given in this report belong to the received sample by vendor.

This test report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

This test report is signed by digital signature.

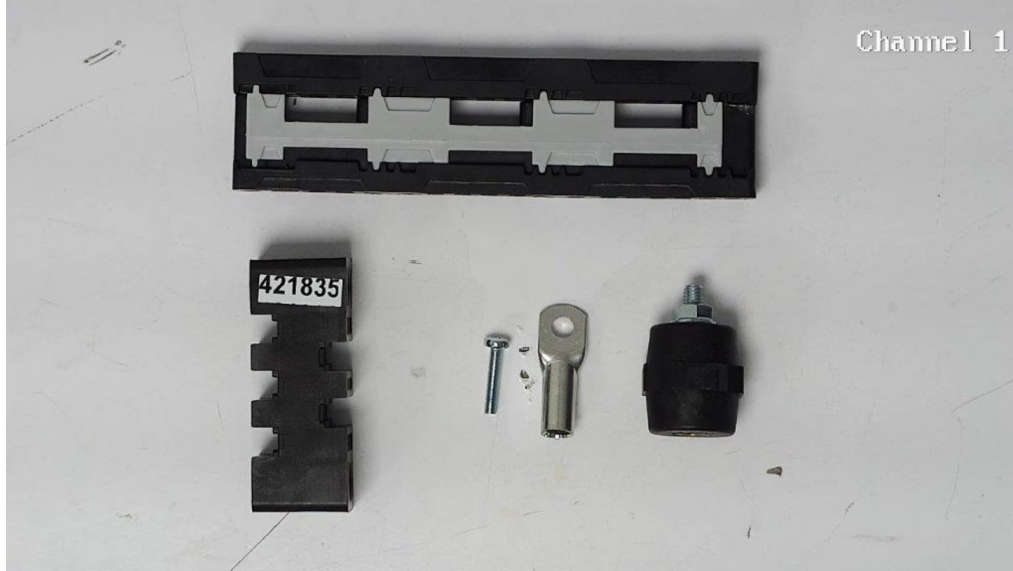
TÜV Rheinland testing laboratories apply the Zero Guard band rule for statement of conformity evaluation, unless other decision rule is required by the customer.

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Test Result Summary :**Test Specification:****Test result:**

- | | |
|--|------|
| 1 Screening Test by XRF spectroscopy | PASS |
| 2 (HM) Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) | PASS |
| 3 BBP, DBP, DEHP, DIBP content #This test is not covered by TURKAK accreditation. | PASS |

1. Photo



2. List of Materials

Material List:

Material No.	Material	Color	Location
M001	Plastic	Black	Rectangle part('Bara Mesnet İzolatörü')
M002	Plastic	Black	Long rectangle part ('Yatay Bara Mesnet İzolatörü kenar kısım')&Cylinder part
M003	Plastic	Grey	Long rectangle middle part ('Yatay Bara Mesnet İzolatörü orta kısım')
M004	Metal	Silver	Screws
M005	Metal	Silver	Cylinder inner Screw part ('Kör Somonlu Mesnet İzolatörü vida kısmı')
M006	Metal	Silver	Cylinder inner Salmon part ('Kör Somonlu Mesnet İzolatörü somon kısmı')
M007	Metal	Gold	Cylinder back part ('Kör Somonlu Mesnet İzolatörü arka kısmı')
M008	Metal	Silver	Cable terminal ('Kablo Pabucu')

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1. Screening Test by XRF spectroscopy

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine
 -- With reference to IEC 62321-3-1:2013

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
M001	n.d.	0,0029	n.d.	n.d.	n.d.
M002	n.d.	0,0018	n.d.	n.d.	0,0080
M003	n.d.	0,0022	n.d.	n.d.	n.d.
M004	n.d.	0,0257	n.d.	n.d.	n.d.
M005	n.d.	0,0430	n.d.	n.d.	n.d.
M006	n.d.	0,0632	0,0035	n.d.	n.d.
M007	n.d.	0,0136	2,7689 *	n.d.	n.d.
M008	n.d.	n.d.	n.d.	n.d.	n.d.

Abbreviation: Pb = Lead
 Cd = Cadmium
 Hg = Mercury
 Cr = Chromium
 Br = Bromine
 n.a. = Not applicable
 BL = Below limit
 OL = Over limit
 d. = Detected

Remark:

XRF Screening limits for different matrices :

Material	Concentration (%)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	BL≤0.029<X
Metallic	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	n.a.
Composite materials	BL≤0.004<X<0.016≤ OL	BL≤0.044<X	BL≤0.047<X<0.153≤ OL	BL≤0.046<X< 0.154≤OL	BL≤0.024<X

Remark: The symbol "X" marks the region where further investigation is necessary.

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

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2.(HM) + (FR) Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium
 - Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)
 - For Metal material - Ref. to IEC 62321-7-1:2015
 - For Polymer, Electronic material or others materials – Ref. to IEC 62321-7-2:2017

PBBs, PBDEs – Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	(%)					
	Cd	Cr ^{VI}	Pb	Hg	PBBs	PBDEs
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
M007	n.a.	n.a.	2,8936 (*1 Exempt 6c)	n.a.	n.a.	n.a.

(*1) Exemption 6(C): Copper alloy containing up to 4 % lead by weight*

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3. BBP, DBP, DEHP, DIBP content #This test is not covered by TURKAK accreditation.

Test Method: ref. to IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Test No.	Material No.	RL (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	M001 + M002 + M003	n.d.	n.d.	n.d.	n.d.

Abbreviation:
 BBP= Benzylbutyl phthalate
 DBP= Dibutyl phthalate
 DEHP= Bis(2-ethylhexyl) phthalate
 DIBP= Diisobutyl phthalate
 < = less than
 RL = Reporting Limit
 %= percentage

- END -