



TÜRK STANDARDLARI ENSTİTÜSÜ  
DENEY ve KALİBRASYON  
MERKEZİ BAŞKANLIĞI  
ELEKTROTEKNİK LABORATUVARI GEBZE  
MÜDÜRLÜĞÜ



TURKISH STANDARDS INSTITUTION  
HEADSHIP OF TEST and CALIBRATION CENTER  
Electrotechnical Laboratory Gebze

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AB-0001-T

244192

07-25

MUAYENE VE DENEY RAPORU  
TEST REPORT

<b>Deneyi Talep Eden/Firma :</b> (Adı, Adresi, Şehir vb.) Requesting/Customer (Name, Address, City etc.)	KÜÇÜK GROUP KABLO SAN. TİC. A.Ş.
<b>Deney Talep Tarihi / No :</b> Order Date/No.	6.05.2025 / 2025-115208
<b>Numunenin Tanımı :</b> (Cins, Marka, Sınıf, Tip, Tür, Model vb.) Sample Description (Type, Mark, Class, Model etc.)	2025-156174, 24G 0,75 MM2 ELITPRO, ELİTPRO, FLEXIBLE, CABLE, PVC, FLEXIBLE CABLE, 40.00, metre
<b>Numune Kabul Tarihi :</b> Sample Receipt Date	12.06.2025
<b>Deneylerin Yapıldığı Tarih :</b> Date of Test	16.06.2025 / 08.07.2025
<b>Uygulanan Standart Metot :</b> Applied Standard/Method	F5 Tüm Deneyler (TS EN 50214)
<b>Raporun Sayfa Sayısı :</b> Number of pages of the report	5
<b>Deney Sonucu :</b> Test Result	Olumlu
<b>Açıklamalar :</b> Remarks	PASS

Yukarıda tanımlanan numune için laboratuvarımızda yapılan muayene ve deneylerden elde edilen sonuçlar müteakip sayfalarda verilmiştir.  
The testing and/or measurement results are given on the following pages which are part of this report.

Bu raporda Uygunluk Beyanı verilen deney sonuçları için TSE internet sitesinde yayınlanan LAB-D-PR-18 Karar Kuralı Prosedüründe belirtilen basit kabul kuralını esas alarak Karar Kuralını uygulanmıştır.  
Rules described in "LAB-D-PR-18 Decision Rule Procedure" Decision Rule based on Simple Acceptance Rule which is published on TSE Web site have been applied to the test result for which Conformity Declaration is given in this test report

Deney laboratuvarları olarak faaliyet gösteren TSE Deney ve Kalibrasyon Merkezi Başkanlığı Deney Laboratuvarları TÜRKAK'tan AB-0001-T ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir.

TSE Headship of Test and Calibration Center Testing Laboratories accredited by TÜRKAK under registration number AB-0001-T for TS EN ISO/IEC 17025:2017 as test laboratory.

TÜRKAK deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.

TURKAK is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

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.



**Tarih**  
Date  
08.07.2025

**Deney Sorumlusu**  
Person in charge of test  
ABDULLAH SÜRÜCÜ

**Kontrol Eden**  
Reviewer  
BAYRAM AY

**Onaylayan**  
Approved by  
BURCU PALA

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve karekodsuz raporlar geçersizdir. Bu rapor, müşteri tarafından laboratuvara ulaştırılan numuneler üzerinde yapılan deney sonuçlarını içermekte olup, "Ürün Belgesi" yerine geçmez.  
This test report shall not be reproduced other than in full except with the written permission of the laboratory. Test reports without signature and seal are not valid. This report contains the test results performed on the samples delivered to the laboratory by the customer and does not replace the "Product Certificate".

Bu doküman elektronik ortamda imzalanmıştır. / This document has been signed with e-signature.  
Doğrulama adresi: <https://basvuru.tse.org.tr/uye/QRKodDogrulama?code=9F3B57>



TEST RESULTS

TEST REPORT

TS EN 50214 :2010-1  
EN 50214 :2006-11

Tests	Prescribed	Observed	
Item tested	Flat PVC sheathed flexible cables, of rated voltage 300/500 V, for low rise lifts		
Code designation	H05VVH6-F 24G0,75 mm <sup>2</sup>	Lenght: 40m Uo/U: 300/500 V	
Markings on insulation	.....		
Distance of Core Marking	Distance : ≤ 50 mm (For cables with five cores or fewer, the identification of the remaining cores shall be either by colours.)	..... mm Identification made by colours <b>PASS</b>	
Markings on sheath	ELITPRO CABLE H05VVH6-F 24G0,75 mm <sup>2</sup> 300/500V		
TSE or TSE-HAR indication continuity Brand name marking	Distance ≤ 550 mm	480 mm 480 mm <b>PASS</b>	
Marking durability and legibility	Indelible, clearly discernible, and easily legible	Insulation: printed on insulation and easily legible <b>PASS</b>	
TSE Identification rope Colour length	TSE - HAR rope Colour length: ---- cm	Identification rope : ..... Colour length ---- cm	
Construction:	Conductor :Class 5 Insulation : TI 2 Outer Sheath TM 2 Strain bearing: ----.	Conductor :Class 5 Insulation : TI 2 Outer Sheath TM 2 Strain bearing: ----. <b>PASS</b>	
Adherence	Sheath shall not adhere to cores	No adhesion observed to cores <b>PASS</b>	
Colour distribution on green/yellow core %	min : % 30 - max : % 70	Green: % 45 Yellow: % 55 <b>PASS</b>	
Colour of cores	Except core G/Y (if any) identification by numbers shall be in accordance with EN 50334. (for cables with cores up to 5, shall be accordance with TS HD 308 S2	G/Y WHITE3 WHITE8 WHITE9 Core colours are complied <b>PASS</b>	
Assembly of cores	The cores shall be laid parallel and covered with the sheath. The cores shall be grouped, lying closely side by side in groups of 2 to 5 cores Number of groups x number of cores in group : 6x4	G/Y WHITE3 WHITE8 WHITE9 Assembly of cores are complied. <b>PASS</b>	
Conductor	Diameter of wire: ≤ 0,21 mm Diameter of conductor: ≤ 1,3 mm	G/Y WHITE3 WHITE8 WHITE9 0,18 0,18 0,18 0,18 1,1 1,1 1,1 1,0 <b>PASS</b>	
Material	Copper	Copper <b>PASS</b>	



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TS EN 50214 :2010-1  
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Tests	Prescribed	Observed			
		G/Y	WHITE3	WHITE8	WHITE9
Resistance of conductors at 20°C	max : 26,0 Ω / km				
		25,7	25,5	25,7	25,6
		PASS			
Voltage test on completed cable ( 20 m ), 1 hour at water	Temp : (20± 5) °C AC: 2000 V Period of test : 15 minutes	No breakdown			
	PASS				
Voltage test on cores ( 5 m ), 1 hour at water	Temo : (20± 5) °C AC: 1500 V Period of test : 5 dk.	No breakdown			
	PASS				
Insulation resistance: ( 5m ), 2 hours at 70 °C water	Temp: 70°C DC voltage: 500 V min. 0,011 MΩ.km				
		0,058	0,026	0,025	0,027
		PASS			
Long term resistance of insulation to d.c. (5 m) (NaCl variation: % 1)	10 days (60±5)°C DC voltage: 220 V	No breakdown			
		PASS			
Measurement of thickness of insulation:	Mean value(min) : 0,6 mm Minimum value : 0,44 mm				
		0,65	0,64	0,65	0,66
		0,56	0,57	0,58	0,59
		PASS			
Measurement of sheath thickness	e1 : 0,50 mm (min)	1,09 mm			
	e2 : 0,8 mm (mean)	1,24 mm			
	e2 : 0,44 mm (min)	1,02 mm			
	e3 : 1,2 mm (mean)	1,61 mm			
	e3 : 0,76 mm (min)	1,54 mm			
		PASS			
Measurement of overall diameter	Width ----- mm (min)	----- mm			
	----- mm(maks)	----- mm			
	Thickness ----- mm(maks)	----- mm			
		N/A			
<b>Mechanical properties of Insulation ; Tensile Strenght (N/mm<sup>2</sup>) , Elongation at Break (%)</b>					
Before ageing	Tensile Strenght (min): 10,0 N/mm <sup>2</sup> Elongation at Break (min.) : 150				
		16,21	15,35	15,72	16,01
		189	194	196	196
		PASS			
After ageing in air oven: 7 day (80±2) °C	Tensile Strenght (min): 10,0 N/mm <sup>2</sup> Elongation at Break (min.) : 150				
		15,89	15,36	15,84	16,00
		190	192	203	205
		PASS			



TEST RESULTS

TEST REPORT

TS EN 50214 :2010-1  
EN 50214 :2006-11

Tests		Prescribed		Observed			
				G/Y	WHITE3	WHITE8	WHITE9
Variation	Tensile Strenght (max):	±% 25		-2	0	1	0
	Elongation at Break (max):	±% 25		1	-1	4	5
					<b>PASS</b>		
<b>Mechanical properties of PVC Outer Sheath ; Tensile Strength (N/mm<sup>2</sup>) , Elongation at Break (%)</b>							
Before ageing	Tensile Strenght (min):	10,0 N/mm <sup>2</sup>		10,89 N/mm <sup>2</sup>			
	Elongation at Break (min.):	:% 150		% 208			
				<b>PASS</b>			
After ageing in air oven: 7 day (80±2) °C	Tensile Strenght (min):	10,0 N/mm <sup>2</sup>		10,18 N/mm <sup>2</sup>			
	Elongation at Break (min.):	:% 150		% 193			
				<b>PASS</b>			
Variation	Tensile Strenght (max):	±% 20		% -7			
	Elongation at Break (max):	±% 20		% -7			
				<b>PASS</b>			
Loss of mass test (Insulation) 7 day (80±2)°C	max. 2.0 mg / cm <sup>2</sup>			G/Y	WHITE3	WHITE8	WHITE9
				0,1021	0,1121	0,1303	0,1036
			<b>PASS</b>				
Loss of mass test (Sheath) 7 day (80±2) °C	max. 2.0 mg / cm <sup>2</sup>		0,2404 mg / cm <sup>2</sup>				
			<b>PASS</b>				
Heat shock test: (Insulation) 1 h (150±2) °C	Ø of mandrel:	5 mm	No Cracks				
	n° of turns:	6					
				<b>PASS</b>			
Heat shock test: (Sheath ) 1 h (150±2) °C	Ø of mandrel:	4 mm	No Cracks				
	n° of turns:	6					
				<b>PASS</b>			
Pressure test at high temperature (Insulation+Sheath) Insulation 4 h (70±2) °C Sheath 4 h (70±2) °C	Median of the depth of indentation (max): %50		Force(Insulation) (N)			Force(Sheath) (N)	
						1,69 N	
			N/A			15	
			<b>PASS</b>				
Bending test at low temperature: (Insualiton) (-15±2)°C	Ø of mandrel:	10 mm	No Cracks				
	n° of turns:	10					
				<b>PASS</b>			
Bending test at low temperature: (Sheath) (-15±2)°C	Ø of mandrel:	- mm	-				
	n° of turns:	-					
				<b>N/A</b>			



TEST RESULTS

TEST REPORT

TS EN 50214 :2010-1  
EN 50214 :2006-11

Tests	Prescribed	Observed
Impact test at low temperature: (Insulation) (-15±2)°C	Drop height : 100 mm Mass of hammer: 100 gr	No Cracks <b>PASS</b>
Impact test at low temperature: (Sheath) (-15±2)°C	Drop height : 100 mm Mass of hammer: 400 gr	No Cracks <b>PASS</b>
Elongation test at low temperature: (Insulation) (-15±2)°C	min : %30	% <b>N/A</b>
Elongation test at low temperature: (Sheath) (-15±2)°C	min : %30	% 90 <b>PASS</b>
Unrolling test at low temperature: (completed cable) (2m) -(20±1) °C, 6 hours	Annular coil with an inner diameter of 200 mm. Untying duration max.: 60 sn.	- <b>N/A</b>
Static flexibility test (3 m)	L : 0,7 m (max)	0,5 m <b>PASS</b>
Test under fire conditions Test duration : 60 s	L1: Distance between the lower edge of the top support and the onset of charring mm, L2: Distance between the lower edge of the top support and the charring extends downwards mm  (L1 ≥ 50 mm ; L2 ≤ 540 mm )	L1: 330 mm L2: 500 mm <b>PASS</b>
Flexing test : (30000 cycles)	Current ---- A Weight ---- kg Diameter of pulleys ---- mm  AC: ---- V Duration ---- min	-----     <b>N/A</b>

**RESULT :**

The result of test for TSE which were performed on the cable sample H05VVH6-F 24G0,75 mm<sup>2</sup> according to TS EN 50214:2010-1 is PASSED

ELITPRO