TESTING CENTER OF CABLE PRODUCTS

Autogennaya str. 7, Kharkov, 61099, Ukraine,
Phone: +38 057 754 52 75
E-mail: lab@yuzhcable.com.ua

Accredited by:
National Accreditation Agency of Ukraine - A national accreditation body of Ukraine
Certificate of Accreditation № 20353 dated January 16, 2024; Valid until January 15, 2029

TEST REPORT

Report reference number	31
Tested by	Andrew Konoplev, Alina Shurupova
Approved by	Nikolay Zykov
Date of issue	11-Feb-26
Testing laboratory	Testing center of cable products,
Address	Autogennaya str. 7, Kharkov, 61099, Ukraine,
	Phone: +38 057 754 52 75, E-mail: lab@yuzhcable.com.ua
Manufacturer	YUZHCABLE WORKS, PJSC
Address	Autogennaya str. 7, Kharkov, 61099, Ukraine
Standard	HD 626 S1:1996
Test procedure	Tests
Wire type	СИП-2 3x16+1×25
Trade mark	YUZHCABLE
Rating(s) Uo/U	0,6/1
Dates of receipt of test item	02-Feb-26
Dates of performance of tests	From 03-Feb-26 to 10-Feb-26
Summary of test results	PASS

Ref No.	Tests	Prescribed	Observed				Verdict
1	**Electrical tests**						
			1	2	3	N	
1.1	Resistance of conductors: (Ω/km) - phase conductors	Max. 1,91	1,86	1,85	1,86		**Pass**
	- neutral messenger	Max. 1,38				1,35	**Pass**
1.2	Volume resistivity of insulation at 90°C (Ω·cm)	Min. $1,0\times10^{12}$	$6,2\times10^{12}$	$6,8\times10^{12}$	$6,5\times10^{12}$	$5,8\times10^{12}$	**Pass**
1.3	Voltage test after 10 min immersion in water 4 kV/5 min	No breakdown	No breakdown				**Pass**
2	**Non-electrical tests**						
2.1	Measurement of dimensions: value: (mm) - diameter of phase conductors	4,6-5,1	5,02	4,98	5,01		**Pass**
	- diameter of neutral messenger	5,7-6,1				5.95	**Pass**

Digitally signed by Bolgarin Mihail
Date: 2026.02.16 14:54:57 EET
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Ref No.	Tests	Prescribed	Observed				Verdict
2.2	Measurement of thickness of insulation mean value: (mm) - phase conductors	$1{,}3_{-0.23}$	1,33	1,32	1,33		**Pass**
	- neutral messenger	$1{,}3_{-0.23}$				1,34	**Pass**
2.3	Breaking tension of neutral messenger: (kN)	Min. 7,4				7,9	**Pass**
2.4	Mechanical properties of insulation *Before ageing*: Tensile strength (MPa) Elongation-at-break (%)	 Min. 12,5 Min. 200	 16,9 490	 17,7 490	 17,2 520	 17,5 510	 **Pass** **Pass**
	After ageing in air oven: Duration (h) / Temperature (°C) Tensile strength variation (%) Elongation-at-break variation (%)	 168 / (135±3) Max. ±25 Max. ±25	 -7,2 -5,1	 -8,4 -4,8	 -6,8 -5,4	 -7,0 -6,6	 **Pass** **Pass**
	Hot set test Time under load (min)/Temperature (°C) mechanical stress (MPa) Elongation under load (%) Permanent elongation after cooling (%)	 15 / (200±3) 0,2 Max. 175 Max. 15	 65 0	 75 5	 60 0	 85 5	 **Pass** **Pass**
	Shrinkage test Duration (h) / Temperature (°C) Shrinkage (%)	 1 / (130±3) Max. 4,0	 1,85	 1,82	 1,73	 1,77	 **Pass**
	Water absorption Duration (h) / Temperature (°C) Increase of mass (mg/cm^2)	 336 / (85±2) Max. 1,0	 0,42	 0,39	 0,25	 0,33	 **Pass**
	Pressure test at high temperature Duration (h) / Temperature (°C) Depth of indentation (%)	 4 / (90±2) Max. 50	 27	 24	 24	 28	 **Pass**
2.5	Test at low temperature Duration (h) / Temperature (°C)	 4 / - 40	 No cracks				 **Pass**

Nikolay Zykov,
Head of TCCP

Andrew Konoplev,
Head of the Laboratory of electrical tests

Alina Shurupova,
Head of Laboratory of promising developments