



ACCREDITATION SCOPE

TESTING LABORATORY (GOST ISO/IEC 17025-2019)

The Testing Center “Politest” of the Autonomous Non-Profit Organization by Certification “Electrosert”

Name of the testing laboratory

RA.RU.21AД12

accreditation certificate number

1. Build. 1, Build. 2, 12A Selskokhozyastvenaya Str., Moscow, 129226, RUSSIA.

Places of business

2. Build. 82-8 FSUE TsNIIMash, 4 Pionerskaya Str., Korolyov, Moscow region, 141070, RUSSIA.

Places of business

For compliance with the requirements of

GOST ISO/IEC 17025-2019 General Requirements for the Competence of Testing and Calibration Laboratories. GOST ISO/IEC 17025-2019

Name and details of the interstate or national standard

Build. 1, 12A Selskokhozyastvenaya Str., Moscow, 129226, RUSSIA.

Places of business

ITEM No	Documents Establishing the Rules and Methods of Research (Testing) and Measurements	Object Name	RCPEA 2 CODE	EAEU HS CODE	Test Characteristic (Parameter)	Determination Range
1. Testing (Research) and Measurements of Products						
1.1.	GOST R 54429, 8.2.1; Physical; measurement of geometric parameters (length, width, thickness, area, change in dimensions and angle)	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Components and basic dimensions	Ok/not Ok 0 to 5000 (mm)

ITEM No	Documents Establishing the Rules and Methods of Research (Testing) and Measurements	Object Name	RCPEA 2 CODE	EAEU HS CODE	Test Characteristic (Parameter)	Determination Range
1.2.	GOST R 54429, 8.2.3 as regards unscreened cables; non-destructive testing; visual method	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Continuity of the extruded sheath	presence/absence -
1.3.	GOST R 54429, 8.2.4; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Absence of breaks in the conductors, screen, drain wire, armor, as well as contacts between the conductors, between the conductors and the screen, between the screen and the armor	presence/absence -
1.4.	GOST R 54429, 8.3.1; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Conductor resistance	- 1 µOhm to 340 Ohm
1.5.	GOST R 54429, 8.3.2; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Conductor resistance unbalance in the working pair	Rating: -

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1.6.	GOST R 54429, 8.3.3; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Conductor resistance unbalance between the pairs	Rating: -
1.7.	GOST R 54429, 8.3.4; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Insulation resistance	- 10 ⁶ to 10 ¹⁵ (Ohm)
1.8.	GOST R 54429, 8.3.5; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	DC voltage test	passed/failed 0 to 60 (kV)
					AC voltage test	passed/failed 0 to 50 (kV)
1.9.	GOST R 54429, 8.4.2; Physical Measurements; Measurements of Mechanical Values	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Relative elongation at break	- 0 to 500 (%)

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1.10.	GOST R 54429, 8.4.3; Physical Measurements; Measurements of Mechanical Values	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Insulation shrinkage	- 0 to 99 (%)
1.11.	GOST R 54429, 8.4.5; Physical Measurements; Measurements of Mechanical Values	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Tensile strength	- 0 to 20 (N/mm ²)
					Relative elongation at break	- 0 to 500 (%)
1.12.	GOST R 54429, 8.4.6; Physical Measurements; Measurements of Mechanical Values	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Relative elongation at break	- 0 to 500 (%)
					Tensile strength	- 0 to 20 (N/mm ²)

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1.13.	GOST R 54429, 8.4.8; Physical Measurements; Measurements of Mechanical Values	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Resistance to bending	passed/failed -
1.14.	GOST R 54429, 8.4.9; Physical Measurements; Measurements of Mechanical Values	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Bend test for the insulated conductor	passed/failed -
1.15.	GOST R 54429, 8.5.2; Tests for External Factors; Low Ambient Operating Temperature Test	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Low temperature resistance	passed/failed -
1.16.	GOST R 54429, 8.5.3; Tests for External Factors; High Air Humidity Test, Long-Term or Accelerated	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	High Humidity Test	passed/failed -
1.17.	GOST R 54429, 8.7 Non-destructive testing; other methods of non-destructive testing	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Packing	Ok/not Ok -

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1.17.					Marking content and quality	Ok/not Ok -
					Marking durability	Ok/not Ok -
1.18.	GOST R 54429, 8.8.1; Testing for Safety; Fire and Explosion Safety; Fire Resistance	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Flame retardance of a single cable	- 0 to 600 (mm)
					Ignition of filter paper	observed/not observed -
1.19.	GOST R 58342, 8.2.1; Physical; measurement of geometric parameters (length, width, thickness, area, change in dimensions and angle)	Electronic and other electrical wires and cables (Power and control cables);	27.32	8544	Components and basic dimensions	Ok/not Ok 0 to 500 (mm) 0 to 20 (m)

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1.20.	GOST R 58342, 8.3.1; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Power and control cables);	27.32	8544	Volume resistivity of the product	Rating: -
					Insulation resistance	- 10 ⁶ to 10 ¹⁵ (Ohm)
					Conductor resistance	- 1 µOhm to 340 Ohm
					AC voltage test	passed/failed 0 to 50 (kV)
					DC voltage test	passed/failed 0 to 60 (kV)

ITEM No	Documents Establishing the Rules and Methods of Research (Testing) and Measurements	Object Name	RCPEA 2 CODE	EAEU HS CODE	Test Characteristic (Parameter)	Determination Range
1.20.					Resistance constant	Rating: -
1.21.	GOST R 58342, 8.3.3; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Power and control cables);	27.32	8544	Volume resistivity of the product	Rating: -
					Resistance constant	Rating: -
1.22.	GOST R 58342, 8.9.1; Testing for Safety; Fire and Explosion Safety; Fire Resistance	Electronic and other electrical wires and cables (Power and control cables);	27.32	8544	Flame retardance of a single cable	- 0 to 600 (mm)
					Ignition of filter paper	observed/not observed -

ITEM No	Documents Establishing the Rules and Methods of Research (Testing) and Measurements	Object Name	RCPEA 2 CODE	EAEU HS CODE	Test Characteristic (Parameter)	Determination Range
1.23.	GOST 31943, 7.2.8; Electrical Measurements; Electrical Measurements	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Absence of breaks in the conductors, screen, drain wire, armor, as well as contacts between the conductors, between the conductors and the screen, between the screen and the armor	presence/absence -
1.24.	GOST 9.048, Methods: 1, 2 and 4; External Impact Tests; Fungus Test	Electronic and other electrical wires and cables ; Fiber optic cables ;	27.32;27.31	8544	Fungus resistance	- 0 to 5 (point)
1.25.	GOST 28206; External Impact Tests; Fungus Test	Electronic and other electrical wires and cables ; Fiber optic cables ;	27.32;27.31	8544	Fungus resistance	- 0 to 3 (point)
1.26.	GOST 20.57.406, Methods: 214-1, 214-2; External Impact Tests; Fungus Test	Electronic and other electrical wires and cables ; Fiber optic cables ;	27.32;27.31	8544	Fungus resistance	- 0 to 5 (point)

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1.27.	GOST 20.57.406, Method 204-1; External Impact Tests; Maximum Low Ambient Temperature Test	Electronic and other electrical wires and cables (Cables, wires and cords); Fiber optic cables;	27.32;27.31	8544	The effect of maximum low ambient temperature.	passed/failed -

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1. Testing (Research) and Measurements of Products						
1.1. Safety;	GOST 31943, 7.8; Testing for Safety; Fire and Explosion Fire Resistance	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32 when	8544	Flame retardance of cables laid in bunches	- 0 to 3.5 (m)
1.2.	GOST R 54429, 8.8.1; Testing for Safety; Fire and Explosion Safety; Fire Resistance	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32 when	8544	Flame retardance of cables laid in bunches	- 0 to 3.5 (m)
1.3.	GOST R 54429, 8.8.2; Testing for Safety; Fire and Explosion Safety; Other Methods of Testing (Research) for Fire Safety and Explosion Safety	Electronic and other electrical wires and cables (Cables, wires and cords);	27.32	8544	Light transmission	- 0 to 100 (%)

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1.4.	GOST R 58342, 8.9.2; Testing for Safety; Fire and Explosion Safety; Fire Resistance	Electronic and other electrical wires and cables (Power and control cables);	27.32 when	8544	Flame retardance of cables laid in bunches	- 0 to 3.5 (m)
1.5.	GOST R 58342, 8.9.3; Testing for Safety; Fire and Explosion Safety; Other Methods of Testing (Research) for Fire Safety and Explosion Safety	Electronic and other electrical wires and cables (Power and control cables);	27.32	8544	Light transmission	- 0 to 100 (%)
1.6.	GOST R 58342, 8.9.6; Testing for Safety; Fire and Explosion Safety; Fire Resistance	Electronic and other electrical wires and cables (Power and control cables);	27.32	8544	Fuse blown	presence/absence -
					Destruction of the conductor	presence/absence -

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1.6.					Flame exposure time	- 0 to 180 (min)
1.7.	GOST R 58342, 8.9.7; Toxicological Tests; Other Methods of Toxicological Research (Testing)	Electronic and other electrical wires and cables (Power and control cables);	27.32 cable	8544	Toxicity equivalent factor for combustion products of a product	Rating: -
1.8.	GOST 31565, 5.6; 4.1 " PTPM "; Toxicological Tests; Other Methods of Toxicological Research (Testing)	Electronic and other electrical wires and cables ; Fiber optic cables ;	27.32;27.31 cable	8544	Toxicity equivalent factor for combustion products of a product (PTPM)	Rating: - PTPM 1 to PTPM 4
1.9.	GOST 12.1.044, 13; Toxicological Tests; Other Methods of Toxicological Research (Testing)	Metallic yarn or metallic trim; fabrics made from metallic thread and fabrics made from metallic yarn; rubber threads and cords with textile covering, and textile materials and products for technical purposes. ; Non-woven materials and products made from them (except for clothing) ;	13.96.1;13.95.1;17.24; 20.16;20.30;27.31;27.32;23.14;22.19.1;22.19.2;22.19.3;22.19.4;22.19.5;22.19.7;16.21;22.21.1;22.21.2;22.21.3;22.21.4;22.23;13.93.1;22.29;22.21.4	5604;5603;4814;5905000;3901;3209;3208;32100;3211000000;3212;3214;9001;8544;7019;4003000000;4005;4008;4009;4010;4014;4016;40170000;5906;6406;4408;4410;4411;4412;44130000;3926;3916;3917;3920;3921;3918;3922;3925;5904;5701;5702;5703;5704;	Toxicity factor for combustion products of polymeric materials	Rating: -

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1.9.		<p>Wall paper ; Plastics in primary forms; Paints and analogous materials for coatings, printing inks and mastics; Fiber optic cables ; Electronic and other electrical wires and cables ; Fiberglass; Reclaimed rubber (devulcanized) in primary forms or in the form of plates, sheets, or strips (bands) ; Rubber compound and products made from it; vulcanized rubber, except for hard rubber (ebonite), in the form of thread, cord, sheets, plates, strips (bands), rods, and profiles ; Pipes, tubes, hoses, and sleeves made of vulcanized rubber, except for hard rubber (ebonite); Conveyor belts or drive belts, or belting made of vulcanized rubber ;</p>		570500;3919;3006;3924;6506;9405;9615		

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1.9.		<p>Rubberized textile materials, except for cord fabrics; Products made from vulcanized rubber not included in other groups; hard rubber (ebonite) and products made from hard rubber (ebonite); Cladding sheets and multilayer plates; Plastic packaging products; Plastic pipes, tubes, and hoses and their fittings; Polymer sheets, films, and strips (bands), unreinforced or not combined with other materials; Monofilaments with a cross-sectional size of more than 1 mm; rods, sticks, and shaped profiles made of plastic; Plastic construction products; Carpets and carpet products; Other plastic products; Plates, sheets, films, and other plastic strips (tapes) ;</p>				

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1.9.						
1.10.	GOST 12177, 3.1, 3.2; Physical; measurement of geometric parameters (length, width, thickness, area, change in dimensions and angle)	Electronic and other electrical wires and cables ; Fiber optic cables;	27.32;27.31	8544	Overall diameter	- 0.01 to 300 (mm)
1.11.	GOST IEC 60811-203; Physical; measurement of geometric parameters (length, width, thickness, area, change in dimensions and angle)	Electronic and other electrical wires and cables ; Fiber optic cables ;	27.32;27.31	8544	Overall diameter	- 0.01 to 300 (mm)

Director General of ANO for Certification
"Elektrosert"

Position of the authorized person

Signed with an electronic signature

Signature of the authorized person

M.M. Vishnyova

Initials, surname of the authorized person