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TIN 136836526587;
Certificate No. 100322417

TEST PROTOCOL № TR2022-33/5

<p>The test was conducted by.....: Checked.....: Approved by.....: Date of protocol approval.....: Number of pages.....:</p>	<p>Debugging and testing engineer: Y.I. ROMANENKO The head of the laboratory: I.H. KOZHUSHKO Director of VC "VYPROBUVACH" LLC: S.V. Voytko 09.12.2022 18 pages</p>
<p>Name of the testing laboratory: Address, telephone:</p>	<p>"VYPROBUVACH" LLC 08300, c. Boryspil, str. 17 Panasa Myrnoho , phone/fax (044) 457-69-22</p>
<p>Basis Address.....:</p>	<p>Agreement No. 31-22 dated October 24 , 2022, Application letter No. 2507-1 dated July 25, 2022 PE "VKF "Soznaniye" 08720, Ukraine, Kyiv region, Ukrainka, 20 Dniprovskiyi Ave., office 55</p>
<p>Standards Non-standardized test methods.....:</p>	<p>TK 3599-001-01394461-04 -U22 TK 3599-00 3 -01394461-04 -U22 Not held</p>
<p>The name of the test product... Trademark Model and/or type Serial number(s) of the sample(s): Producer.....: Product description.....:</p>	<p>Coupling cable connecting J L P-CF4 (S) SOZNANIIE serial production of the company "RADPOL" S. A . (Poland). Cable terminal coupling for internal, external installation TLP-CF4 (S) SOZNANIIE , serial production of the company "RADPOL " S.A. (Poland). RADPOL S.A. (Poland) JLP-CF4 150-240 (S) SOZNANIIE , which is a sample representative of serial production of the company "RADPOL" S.A. _ _ (Poland). TLP-CF4 150-240 (S) SOZNANIIE, which is a sample representative of serial production of the company "RADPOL " S.A. (Poland). RADPOL SA; St. Batorego 14, 77-300 Chluchów, Poland JLP-CF4 150-240 (S) SOZNANIIE - cable couplings for voltage up to 1 kV inclusive , equipped with 4 bolt sleeves, soldered, non-soldered or combined grounding system TLP-CF4 150-240 (S) SOZNANIIE - cable terminal coupling for internal and external installation for voltage up to 1 kV inclusive, equipped with 2 bolt terminals, soldered, non-soldered or combined grounding system.</p>

Abbreviations used in the text of the protocol: The requirement does not apply to the manufactured sample(s).....: Positive test result: Negative test result:	V/N P N
Sampling:	The samples were provided by the applicant, including Completion list (Passport) for the assembly kit of one connecting clutch heat-shrinkable JLP-CF3,4 (S) SOZNANIIE, mass -produced by the company "RADPOL" SA (Poland). Completion list (Passport) for the installation kit of one final coupling of internal, external installation of TLP-CF3,4 (S) SOZNANIIE, serially produced by the company "RADPOL" SA (Poland). Technical drawings of the clutch assembly.
Sample identification :	
Date of receiving the sample(s).....:	25.10.2022
Date(s) of testing...:	01.12.2022 - 02.12.2022
Place of testing :	08300, c. Boryspil, str. 17, Panasa Myrnoho
Test methods :	establishing compliance of sample characteristics with requirements: TK 3599-001-01394461-04 -U22 TK 3599-00 3 -01394461-04 -U22
Test conditions :	The temperature is 24 °C; The relative humidity of the air is 76%.
Test results :	positive
Results of tests for compliance with safety requirements ..:	given on p. 9 of this protocol
Results of tests for compliance with EMC requirements.....:	
Data on measurement errors :	given on p. 4 of this protocol

**NOTES: The values of the test results apply only to the product sample that I tried.
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NATIONAL ACCREDITATION AGENCY OF UKRAINE
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CERTIFICATE OF ACCREDITATION



Registered in the Register
 November 19, 2019
 For № 20408
 valid until November 18, 2024

Date of initial accreditation: November 19, 2014

NATIONAL ACCREDITATION AGENCY OF UKRAINE HEREBY CERTIFIES
 COMPETENCE

**LIMITED LIABILITY COMPANY testing laboratory
 RESPONSIBILITY "EXAMINATION CENTER "EXAMINATION CH"**

**Location of the legal entity:
 08300, Boryspil, str. 17, Panasa Myrny,**

**Location of the LLC: 08300, Boryspil, str. 17, Panasa Myrny,
 93067, Kyiv; St. Vyborzka 103, y
 03164, Kyiv, str. Generala Naumov, 17**

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code (EDRPOU)

ACCORDING TO THE REQUIREMENTS OF DSTU ISO/IEC 1 7025:2017 (ISO/IEC 17025:2017) IN THE FIELD:

testing of electrical household and similar equipment and component products, electrical installation component parts, manual electromechanical machines, technological equipment for enterprises, regulating equipment for low voltage, cable conductor products, lamps, chemical current sources, means computer equipment, radio equipment, radio electronic equipment household appliances, radio equipment, toys according to safety and quality indicators.

The scope of accreditation is defined in the appendix to this certificate
 The appendix is an integral part of this certificate and consists of 26 sheets

Acting Chairman

Kyiv, 01133, Generala Almazva street, 18/7

Registered in the accounting journal under №1134 A



V. Yanchev

NALU is a signatory of: 1) EA VIA Agreements in the areas of "Testing", "Calibration", "Product Certification", "Certification of personnel", "Certification of management systems" and "Inspection"; 2) ILAC MRA agreements in the fields "Testing", "Calibration" and "Inspection"; 3) IAE MLA Agreements in the areas of "Product Certification", "Certification of personnel", "Certification of management systems".

CONTENTS OF THE PROTOCOL

No. z/p	Name	Page
1.	Content	3
2.	Data errors	4
3.	Photo	5-6
4.	Testing equipment	7
5.	Test object	8
6.	The purpose of the tests	8
7.	Test program and methodology	8
8.	Selection of samples	8
9.	Identification of samples	8
10.	Technical characteristics and parameters of test objects	9
11	Results of compliance tests security	10
	Appendices	
	Appendix 1. Test No. 1	11
	Appendix 2. Test No. 2	12
	Appendix 3. List of components (Passport) for the assembly kit one coupling of the JLP-CF3,4 (S) SOZNANIIE heat-shrinkable coupling , serially produced by the company "RADPOL" SA (Poland).	13-14
12.	Appendix 4. List of components (Passport) for the assembly kit one end coupling internal, external installation TLP-CF3,4 (S) SOZNANIIE , serial production of the company "RADPOL" SA (Poland).	15-16
	Appendix 5 Technical drawing coupling assembly JLP-CF4 150-240 (S) SOZNANIIE	17
	Appendix 6 Technical drawing of the coupling assembly TLP-CF4 150-240 (S) SOZNANIIE.	18

Data on measurement errors

Measured values during tests	The maximum measurement error is within
Gas pressure	$\pm 2.5 \%$
Temperature	$\pm 2.0 \%$
Atmospheric pressure	$\pm 2.0 \%$

Coupling cable connecting J L P-CF4 (S) SOZNANIIE.



Cable terminal coupling for internal, external installation TLP-CF4 (S) SOZNANIIE



Cable AABI 4x240-1kV _



Testing equipment and measuring tools

Name	Marking (type)	Factory/or inventory number	Measurement range, division price, error
1 Hygrometer	VIT-1	b/n	20 - 90% error $\pm 7\%$
2 Hygrometer	M-34	No. 2173	10 - 100%, $\pm 1.5\%$ resolution uncertain #1117- $t^{\circ} - 15^{\circ} \pm 0.29$ 20.0 $^{\circ} \pm 0.29$ 50.0 $^{\circ} \pm 0.27$ #1095- $t^{\circ} - 15^{\circ} \pm 0.32$ 20.0 ± 0.27 50.0 ± 0.27
3 Stopwatch	STC-1	No. 5890183	0 - 999.999 s error ± 0.001 s
4 Manometer	MTP-100	#6643	0-600kPa body diameter: 100 mm; accuracy class: 2.5.
5 Gas cylinder with argon		No. 95338	Capacity 40 l Pressure 200 atm
6 Argon flow regulator	AR 40-5	No. 2101	Input pressure 200 atm
7 Compressor	ORL 15 AX	No. 33	15 kW; 8 bar; 2.2 m ³ /min.

1. Test objects

The following were tested :

Couplings cable connecting brand JLP-CF4 150-240 (S) SOZNANIIE, which are representative samples of couplings serially produced by the company RADPOL S. A . (Poland)-3 pcs.

Cable end couplings for internal, external installation TLP-CF4 150-240 (S) SOZNANIIE , which are representative samples of couplings mass -produced by the company RADPOL S. A (Poland)-3 pcs.

Description of the preparation and installation of samples for testing.

No. 1, No. 2, No. 3 , No. 4, No. 5, No. 6 were mounted for testing .

Tested samples No. 1, No. 2, No. 3, consist of sections of four-wire AABI cable 4x240-1kV in length 1,5 m, on which tested connecting heat-shrink couplings of the type JLP-CF4 150-240 (S) SOZNANIIE are mounted , which are representative samples of couplings manufactured in series by the company RADPOL SA (Poland) . .

Tested samples No. 4, No. 5, No. 6 consist of sections of AABI four - core cable 4x240-1kV with 1,2 ma length of TLP-CF4 150-240 (S) SOZNANIIE , which are representative samples of couplings mass-produced by RADPOL SA (Poland). From the side of the cable, from which the gas is supplied, paper seals of the veins are pulled out for guaranteed pressure supply to the inside of the coupling.

Assembly of couplings was performed by representatives of PE "VKF "Soznaniie".

2. Purpose, program and methods of testing.

2.1. The purpose of the tests is to check the tightness of cable couplings: connecting heat-shrink type JLP-CF4 150-240 (S) SOZNANIIE , which are representative samples of couplings manufactured in series by RADPOL SA (Poland) according to the requirements of TZ 3599-001-01394461- 04-U22 and final internal and external installation of type TLP-CF4 150-240 (S) SOZNANIIE, which are representative samples of couplings mass-produced by RADPOL SA (Poland) according to the requirements of TZ 3599-003-01394461-04-Y22

2.2. Test program: the tests were carried out to meet the requirements of technical specifications 3599-001-01394461-04-U22, TK 3599-003-01394461-04-U22.

2.3. Test method: the tests were carried out according to the methods specified in Technical Specifications 3599-001-01394461-04-U22, Technical Specifications 3599-003-01394461-04-U22.

3. Sampling.

The procedure for selecting samples provided for testing to assess product compliance with the requirements of technical regulations is not provided for by the relevant normative documents. The selection of samples for testing was carried out by the customer.

4. Identification of samples.

The procedure for identification of samples provided for testing to assess product compliance with the requirements of technical regulations is not provided for by the relevant regulatory documents. Identification of samples provided for testing was carried out by the customer.

5. Technical characteristics and parameters of test objects.

JLP-CF4 150-240 (S) SOZNANIIE - cable coupling for 4-core cable with paper insulation with armor or without armor, for voltage up to 1 kV inclusive. Complete with 4-bolt connecting sleeves, soldered, non-soldered or combined grounding system.

TLP-CF4 150-240 (S) SOZNANIIE - cable end coupling for internal, external installation on a 4-wire cable with paper insulation with or without armor, for a voltage up to 1 kV inclusive, equipped with 2 bolt terminals, soldered, non-soldered or combined grounding system.

Technical characteristics of the cable AABI 4x240-1kV, on which couplings are installed.

AABI cable is a paper-insulated aluminum four-wire conductor with a steel-aluminum protective cover and mylar tape.

Application of AABI 4x240-1kV .

AABI cable is used for conducting electric lines in the open air, as well as in the ground with low and medium corrosion activity, it is used for stationary laying. Thanks to the steel-aluminum armoring, it is laid with a high probability of mechanical damage. Suitable for use in regions with cold and temperate climates.

Construction AABI 4x240-1kV	
Conductive wire	Aluminum
Insulation	Oil-soaked
Screen	Conductive paper
Shell	Aluminum
Pillow	Bitumen, crepe paper, mylar tape, PVC film
Armor	Two steel plates overlapping each other's seams
Outer shell	Glass yarn is a dense fibrous material
Scroll	Twisted insulated wires

Structure of AABI 4x240-1kV .

Single-wire aluminum current-conducting core are sectoral in cross section. Each core is insulated with a special paper made of sulfated unbleached cellulose impregnated with a viscous solution. Cable paper bundles are added to the core as a filler. An additional protective element is a paper screen. An electrically conductive screen is located on top of the belt insulation. The inner protective cover is aluminum.

A cushion is placed on the aluminum armor to absorb mechanical impacts, including crushing. It contains a mylar tape that protects **the AABI brand cable** from the effects of corrosion. External booking is made of two steel strips, which are laid without gaps and covered with a layer of dense polymer composition.

Technical characteristics of AABI 4x240-1kV .

The working temperature of AABI varies in the range from -50°C to +50°C

The permissible temperature of long-term heating of the core is no more than 80 °C, in case of overload it is allowed up to 100 °C.

Flexibility class - 1.

Outer diameter, 60,5 mm.

6. Results of compliance tests.

For samples of cable couplings: JLP-CF4 150-240 (S) SOZNANIIE, which are representative samples of couplings mass-produced by RADPOL SA (Poland) according to the requirements of TZ 3599-001-01394461-04-Y22 and TLP-CF4 150- 240 (S) SOZNANIIE, which are representative samples of couplings mass-produced by RADPOL SA (Poland) according to the requirements of TK 3599-003-01394461-04-U22.

No n/p	Technical requirement	Test method	Parameters trial	Conclusion on compliance of the samples with the requirements of regulatory documentation
1	TK 3599-001-01394461-04-U22	TK 3599-001-01394461-04-U22	Gas pressure test 294 kPa (3 kgf / cm ²) within 10 min.	P
2	TK 3599-00 3 -01394461-04-U22	TK 3599-00 3 -01394461-04-U22	Gas pressure test 294 kPa (3 kgf / cm ²) within 10 min.	P

RESULTS

Based on the test results, tested samples of cable couplings: connecting heat-shrink type JLP-CF4 150-240 (S) SOZNANIIE are presented, which are representative samples of couplings mass-produced by RADPOL SA (Poland) - meet the requirements of **TZ 3599-001 -01394461-04-U22** and final internal, external installation type TLP-CF4 150-240 (S) SOZNANIIE, which are representative samples of couplings manufactured in series by the company RADPOL SA (Poland) - meet the requirements of **TK 3599-003-01394461- 04-U22**.

Laboratory engineer: Yu.I. ROMANENKO

Head of the laboratory: I.H. KOZUSHKO

Test № 1

Gas pressure test of 294 kPa JLP-CF4 150-240 (S) SOZNANIIE cable connecting heat-shrinkable couplings , which are representative samples of couplings manufactured in series by the company RADPOL SA (Poland) , are made in accordance with the requirements of TZ 3599-001-01394461-04-Y22.

Start date	01.12.2022
End date	01.12.2022
Relative humidity	76%
The temperature is	24°C
Atmospheric pressure	980 mbar
Gas pressure	290-310 kPa

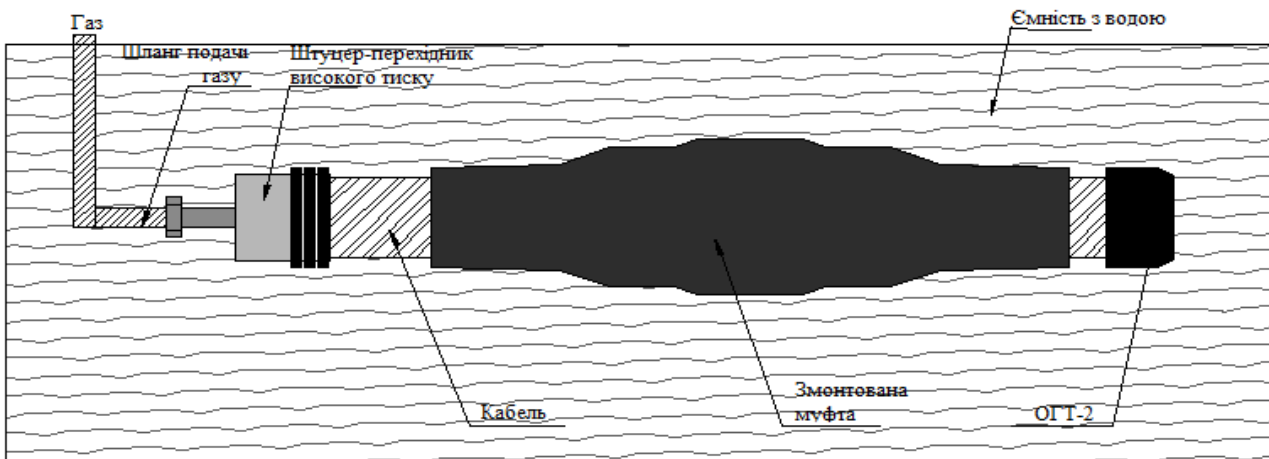
Test description.

For SOZNANIIE JLP-CF4 150-240 (S) cable connecting heat-shrinkable couplings, which are representative samples of couplings mass-produced by RADPOL SA (Poland).

№ 1, № 2, № 3 mounted on a cable segment , completely immersed in water, were supplied with gas under a pressure of at least 294 kPa through a special fitting as shown in Figure № 1 (3 kgf/cm²), and the other end of the coupling was sealed with an OGT-2 terminator to prevent gas leakage. Gas was supplied to the clutch using a compressor. Gas pressure during 10 minutes did not decrease to 2.91 kgf/cm² and did not increase to 3.3 kg/cm².

The absence of bubbles and preservation of the integrity of the samples is a sign of a successful test.

Picture № 1 .



The manometer reading at the end of the test was:

The name of the coupling	Sample No	Manometer readings
JLP-CF4 150-240 (S) SOZNANIIE	1	3.0 kgf/cm ²
JLP-CF4 150-240 (S) SOZNANIIE	2	3.1 kgf/cm ²
JLP-CF4 150-240 (S) SOZNANIIE	3	3.1 kgf/cm ²

The result of the test: no gas leakage occurred on all samples, the destruction of the couplings was not detected.

Test № 2

Gas pressure test of 294 kPa cable end couplings for internal, external installation TLP-CF4 150-240 (S) SOZNANIIE , which are representative samples of couplings manufactured serially by RADPOL S. A. (Poland) , carried out in accordance with the requirements of **TK 3599-003-01394461-04-U22**.

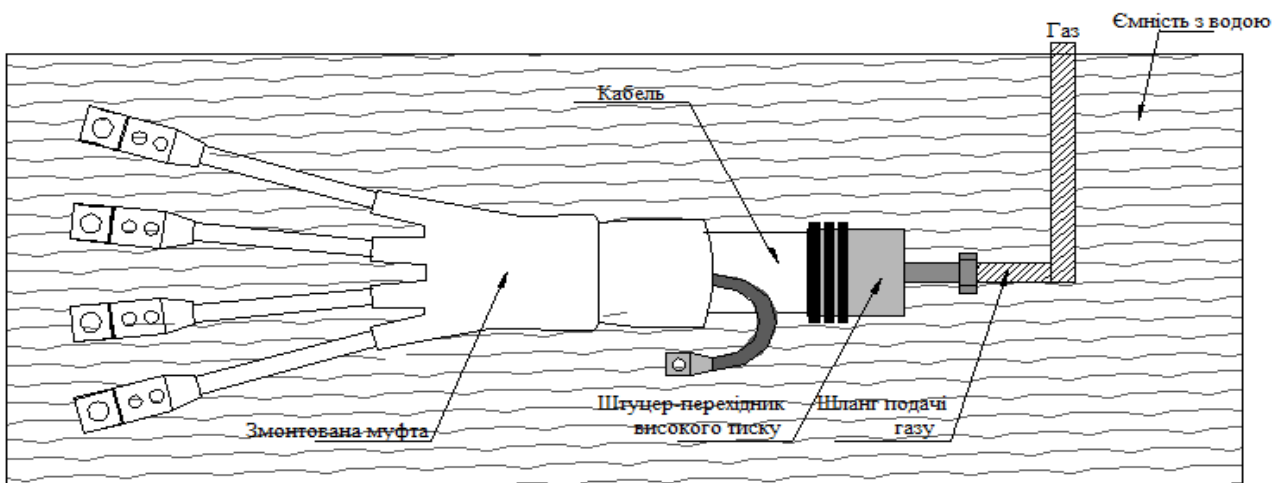
Start date	02.12.2022
End date	02.12.2022
Relative humidity	76%
The temperature is	24°C
Atmospheric pressure	980 mbar
Gas pressure	290-310 kPa

For TLP-CF4 150-240 (S) SOZNANIIE cable end couplings for internal, external installation, which are representative samples of couplings mass-produced by RADPOL SA (Poland).

No. 4, No. 5, No. 6 mounted on a cable segment , completely immersed in water, were supplied with gas under a pressure of at least 294 kPa (3 kgf/cm²) through a special fitting, as shown in Figure **No. 2** . Gas was supplied to the clutch using a compressor. Gas pressure during 10 minutes did not decrease to 2.91 kgf/cm² and did not increase to 3.3 kg/cm².

The absence of bubbles and preservation of the integrity of the samples is a sign of a successful test.

Picture **No. 2** .



The manometer reading at the end of the test was:

The name of the coupling	Sample No	Manometer readings
TLP-CF4 150-240 (S) SOZNANIIE	4	3.0 kgf/cm ²
TLP-CF4 150-240 (S) SOZNANIIE	5	3.1 kgf/cm ²
TLP-CF4 150-240 (S) SOZNANIIE	6	3.0 kgf/cm ²

The result of the test: no gas leakage occurred on all samples, the destruction of the couplings was not detected.

COMPLETE INFORMATION (PASSPORT)

per kit for the installation of one connecting heat-shrinkable coupling

JLP - CF 3.4 (S) SOZNANIE, serial production of the company " RADPOL "S.A. (Poland) .

No n/p	Names of parts and assembly materials	Unit ex.	JLP CF4 16- 50(S) SOZN ANIE	JLP- CF4 70- 120(S) SOZN ANIE	JLP- CF4 150- 240(S) SOZN ANIE	JLP-CF 3 16- 50(S) SOZN ANIE	JLP-CF 3 70- 120(S) SOZN ANIE	JLP-CF 3 150- 240(S) SOZN ANIE
1.	Heat-shrinkable glove with adhesive with an insulating sublayer, such as							
	AK 4 25-95	piece	2	-	-	-	-	-
	AK 4 35-150	piece	-	2	-	-	-	-
	AK 4 95-300	piece	-	-	2	-	-	-
	AK 3 25-120	piece	-	-	-	2	-	-
2	AK 3 95-300	piece	-	-	-	-	2	2
	Tube No. 1 RDK for sealing the coupling							
	95/25 x 1000 ⁻⁵⁰ mm	piece	1	-	-	1	-	-
3	105/32x1200 ⁻⁵⁰ mm	piece	-	1	1	-	1	1
	RC / RCH 1 earth wire insulation tube							
4	12.7/6.4x900mm	piece	1	1	-	1	1	-
	19/9.5x900mm	piece	-	-	1	-	-	1
5	Sleeve film	piece	1	1	1	1	1	1
6	Tube No. 2 RP K H 1 for insulation of cable cores							
	22/6x150mm	piece	4	-	-	3	-	-
	22/6x250mm	piece	4	4	4	3	3	3
	22/6x320mm	piece	-	4	-	-	3	-
	22/6x330 mm	piece	-	-	4	-	-	3
7	Cuff tube No. 3 RP K H 1 for isolating the contact connection							
	30/8x150mm	piece	4	-	-	3	-	-
	30/8x200mm	piece	-	4	-	-	3	-
	40/16x200mm	piece	-	-	4	-	-	3
8	The grounding wire is tinned copper (Plecion cynowana)							
	cross-section 16 mm ² length 850 mm	piece	1	-	-	1	-	-
	cross-section 16 mm ² length 1050 mm	piece	-	1	-	-	1	-
9	cross-section 25 mm ² length 1050 mm	piece	-	-	1	-	-	1
	PVC electrical insulating tape	piece	1	1	1	1	1	1
10	The wire is galvanized 1.2 mm	m	2.5	2.5	2.5	2.5	2.5	2.5
11	*Cable sleeves with screw cross-section, mm ² :							
	16 - 50	piece	4	-	-	3	-	-
	70 - 120	piece	-	4	-	-	3	-
12	150 - 240	piece	-	-	4	-	-	3
	*Solder brand A	kg	0.05	0.05	0.05	0.05	0.05	0.05
13	*Contact plate (grater)	piece	4	4	4	4	4	4
thirteen	* Solder POS - 30	kg	0.075	0.075	0.075	0.075	0.075	0.075
14	* PPT spring (Zacisk spruzynowy) S 1	piece	4	-	-	4	-	-
	* PPT spring (Zacisk spruzynowy) S 2	piece	-	4	-	-	4	-
	* PPT spring (Zacisk spruzynowy) S 4	piece	-	-	4	-	-	4
15	*Soldering fat	piece	1	1	1	1	1	1
16	napkin (chusteczki czyszczące)	piece	2	2	2	2	2	2
17	Mesh for bandaging tape-sealant of the grounding node (budowlana) 100x300mm	piece	2	2	2	2	2	2

18	Tape for sealing the grounding node (Masa zeczyłająca(pancerz))							
	25x1.5x200mm	piece	4	-	-	4	-	-
	25x1.5x300mm	piece	-	4	4	-	4	4
19	Linen threads (sznurek przewiązkowy)	m	3.0	3.0	3.0	3.0	3.0	3.0
20	Sealant under the glove AK (Palczatka dough)							
	40x1x150mm	piece	2	2	-	2	2	-
	40x1x200mm	piece	-	-	2	-	-	2
21	Installation instructions	piece	1	1	1	1	1	1
22	Used gloves	coupl e	1	1	1	1	1	1
23	Carton	piece	1	1	1	1	1	1
Note: *- delivered to order								

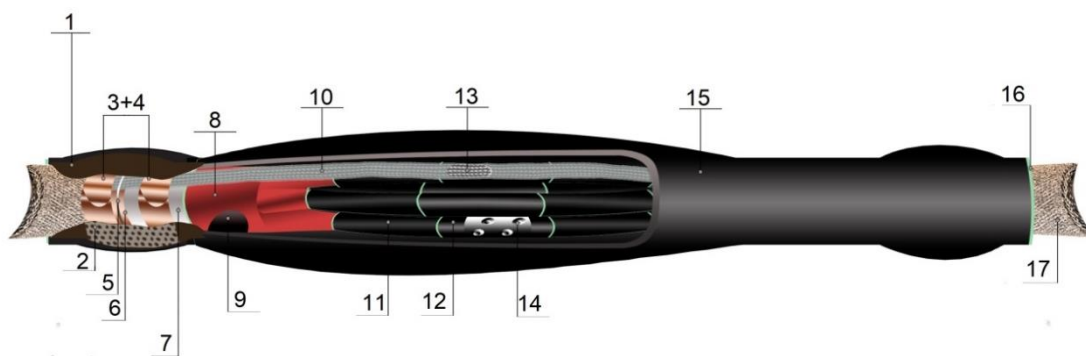
COMPLETE INFORMATION (PASSPORT)
per kit for installation of one final coupling of internal, external installation
TLP-CF3,4 (S) SOZNANIE, mass-produced by the company "RADPOL" SA (Poland).

Names of parts and assembly materials	Unit ex.	Quantity per clutch					
		TLP-CF4 16-50(S) SOZNANIE	TLP-CF4 70-120(S) SOZNANIE	TLP-CF4 150-240(S) SOZNANIE	TLP-CF3 16-50(S) SOZNANIE	TLP-CF3 70-120(S) SOZNANIE	TLP-CF3 150-240(S) SOZNANIE
1. A heat-shrinkable glove with an insulating adhesive layer							
And K4 25-90	pie ce	1	-	-	-	-	-
AK4 35-150	pie ce	-	1	-	-	-	-
AK4 95-300	pie ce	-	-	1	-	-	-
AK3 25-120	pie ce	-	-	-	1	-	-
AK3 95-300	pie ce	-	-	-	-	1	1
2. Heat -shrinkable oil-resistant tube No. 1 RPKH 1 for insulating cable cores							
22/6x 800 mm	pie ce	4	-	-	3	-	-
3 0/8 x 800 mm	pie ce	-	4	-	-	3	-
40/16x 800 mm	pie ce	-	-	4	-	-	3
3. Bandaging cuff with an adhesive underlayer for sealing the grounding node RPKH 1							
40/16x200 mm	pie ce	1	-	-	1	-	-
63/19 x200 mm	pie ce	-	1	-	-	1	-
80/35x200 mm	pie ce	-	-	1	-	-	1
4. Insulating heat-shrinkable cuff with an adhesive sub-layer for insulating tips RPKH 1							
30/8 length 100mm	pie ce	4	-	-	3	-	-
35/12 length 120mm	pie ce	-	4	-	-	3	-
50/20 length 120mm	pie ce	-	-	4	-	-	3
5. Grounding wire tip Ks (Końcówka kablowa)							
16/8	pie ce	1	1	-	1	1	-
25/8	pie ce	-	-	1	-	-	1
6. The grounding wire is tinned copper (Plecionka miedziana) , length 800 mm							
with a cross section of 16 mm ²	pie ce	1	1	-	1	1	-
with a cross section of 25 mm ²	pie ce	-	-	1	-	-	1
7. * Solder POS - 30	kg	0.05	0.05	0.05	0.05	0.05	0.05
8. *Solder brand A	kg	0.03	0.03	0.03	0.03	0.03	0.03

9.	*Contact plate (grater)	pie ce	2	2	2	2	2	2
10	* PPT spring							
	S1	pie ce	2	-	-	2	-	-
	S 2	pie ce	-	2	-	-	2	-
	S 4	pie ce	-	-	2	-	-	2
11.	The wire is galvanized 1.2 mm	m	1.25	1.25	1.25	1.25	1.25	1.25
12.	*Soldering fat	pie ce	1	1	1	1	1	1
thir	Napkin alcohol (Chusteczka czyszcząca)	pie ce	2	2	2	2	2	2
14.	PVC tape	pie ce	1	1	1	1	1	1
15.	*Screw tip, mm ²							
	16-50	pie ce	4	-	-	3	-	-
	70-120	pie ce	-	4	-	-	3	-
	150-240	pie ce	-	-	4	-	-	3
16.	Linen threads (Sznurek przewiązkowy)	m	1.5	1.5	1.5	1.5	1.5	1.5
17.	Sealant under glove (Masa ca _ _ pod palczatke) 40/1 x 200 mm	pie ce	1	1	1	1	1	1
18.	Installation instructions	pie ce	1	1	1	1	1	1
19.	Used gloves	coup le	1	1	1	1	1	1
20.	Carton	pie ce	1	1	1	1	1	1
Notes: * - delivered to order								

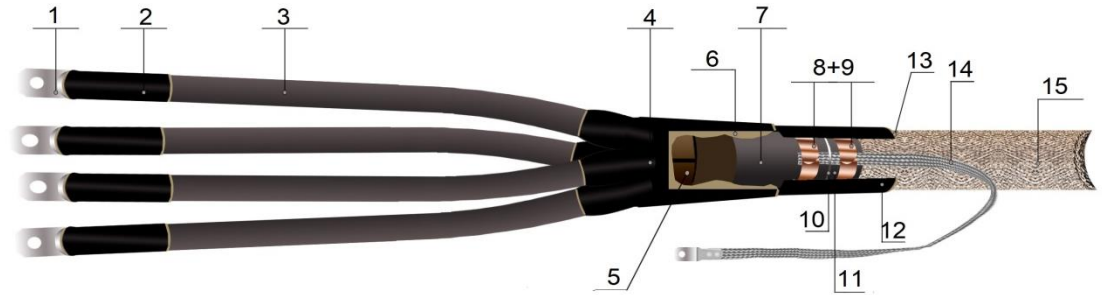
APPENDIX № 5.

Technical drawing of the clutch assembly JLP-CF4 150-240 (S) SOZNANIIE.



1. Tape for sealing the grounding node (**Masa uszczelniająca(pancerz)**). 2. Mesh for bandage tape-sealant knot grounding (**budowlana**) 3. PPT spring. 4. Contact plate (grater). 5. The wire is galvanized. 6. Cable armor. 7. Metal sheath of the cable. 8. Heat-shrinkable glove with AK adhesive underlayer. 9. AK glove sealant (**Masa uszczelniająca (palczatka)**).10. Tube for insulation of grounding wire № 4 **RC/RCH 1**. 11. Tube № 2 **RPKH 1**. for insulation of cable cores. 12. Tube-cuff № 3 **RPKH 1**. for isolating the contact connection. 13. Copper grounding wire Ludzheni (**Plecionka miedziana cynowana**). 14. Screw cable sleeves. 15. Tube № 1 **RDK** for sealing the coupling. 16. Hot melt glue. 17. Cable.

Technical drawing of the clutch assembly TLP-CF4 150-240 (S) SOZNANIJE.



1. Screw tip. 2. Insulating heat-shrink cuff with an adhesive sub-layer for insulation of **RPKH 1** tips. 3. Heat-shrinkable oil-resistant tube №1 **RPKH 1** for insulating the cores of the cable. 4. Heat-shrinkable glove with adhesive sublayer **AK**. 5. A screen made of electrically conductive paper. 6. Sealant for the glove (**Masa uszczelniająca pod palczatkę**). 7. Cable armor. 8. PPT spring. 9. Contact plate (grater). 10. The wire is galvanized. 11. Cable armor. 12. Bandaging cuff with an adhesive sub-layer for sealing the grounding node. 13. Hot melt glue. 14. Ground wire copper alloy (**Plecionka miedziana**). 15. Cable.