

Limited liability company

« Testing center
"Tester" »

08300, Kyiv region, Boryspil,
St. 17, Panasa Mymoho .
Actual/postal address: 03067, c.Kyiv,
St. Oleksy Tyhoho , 103.
Tel./Fax: /044/ 457-69-22.

E-mail:
vuprob@bigmir.net

r/y 260023087101 at "Bank Bohuslav" JSC, Kyiv
MFO 380322.
EDRPOU 13683650.
TIN 136836526587;
Certificate No. 100322417

PROTOCOL OF TESTS No. TR2022-33/6

The test was conducted by.....:	Debugging and testing engineer
	Y.I. ROMANENKO
Checked.....:	The head of the laboratory I.H. KOZHUSHKO
Approved by.....:	Director of VC "VYPROBUVACH" LLC S.V. Voytko
Date of protocol approval.....:	09.12.2022
Number of pages.....:	22 p .
Name of the testing laboratory:	"VYPROBUVACH" LLC
Address, telephone	08300, c. Boryspil, str. 17 Panasa Myrnoho , phone/fax (044) 457-69-22
Basis	Agreement No. 31-22 dated October 24, 2022, Application letter No. 2507-1 dated July 25, 2022
Address.....:	PE "VKF "Soznaniie" 08720, Ukraine, Kyiv Region, Ukrainka, 20 Dniprovskiyi Ave., office 55
Standards	TK 3599-001-01394461-04-U22 TK 3599-002-01394461-04-U22 TK 3599-003-01394461-04-U22
Non-standardized test methods.....:	Not held
The name of the test product...	Coupling cable connecting JHP-10 CF3 (S) SOZNANIIE, serial production of the company "RADPOL" SA (Poland). Internal cable terminal coupling, installation of THP-I-10-CF3 (S) SOZNANIIE, mass-produced by the company "RADPOL" SA (Poland). External cable terminal coupling , installation THP-N-10-CF3 (S) SOZNANIIE, serial production of the company "RADPOL" SA (Poland).
Trademark	RADPOL SA (Poland)
Model and/or type	JHP-10-CF3 150-240 (S) SOZNANIIE, which is a sample representative of serial production of the company "RADPOL" SA (Poland). THP-I-10-CF3 150-240 (S) SOZNANIIE, which is a model representative of serial production of the company "RADPOL" SA (Poland). THP-N-10-CF3 150-240 (S) SOZNANIIE, which is a sample representative of serial production of the company "RADPOL" SA (Poland).

Serial number(s) of the sample(s):	
Product description.....:	JHP-10-CF3 150-240 (S) SOZNANIIE - cable coupling for voltage up to 10 kV inclusive, equipped with 4 bolt sleeves, soldered, non-soldered or combined grounding system THP-I-10-CF3 150-240 (S) SOZNANIIE - internal cable terminal coupling installation for voltage up to 10 kV inclusive, equipped with 2 bolt terminals, soldered, non-soldered or combined grounding system THP-N-10-CF3 150-240 (S) SOZNANIIE - cable end coupler for external installation at voltage up to 10 kV inclusive, equipped with 2 bolt terminals, soldered, non-soldered or combined grounding system.
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 JHP-10 CF3 (S) SOZNANIIE, mass-produced by the company "RADPOL" SA (Poland). Completion list (Passport) for the installation kit of one end coupling for internal installation of THP-I-10 CF3 (S) SOZNANIIE, mass-produced by the company "RADPOL" SA (Poland). Completion list (Passport) for the installation kit of one end coupling for external installation THP-N-10 CF3 (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...:	11/29/2022 - 11/30/2022
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 2 -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. 10 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 it.

Full or partial copying of the Protocol without permission LLC "Testing Center "VYPROBUVACH" IS PROHIBITED.

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
12.	Appendices	
	Appendix 1. Test No. 1	11
	Appendix 2. Test No. 2	12-13
	Appendix 3. List of components (Passport) for the installation kit of one joint heat-shrinkable coupling JHP-10 CF3 (S) SOZNANIIE, serially produced by the company "RADPOL" SA (Poland).	14-15
	Appendix 4. List of components (Passport) for the assembly kit of one final coupling of internal installation THP-I-10 CF3 (S) SOZNANIIE, serially produced by the company "RADPOL" SA (Poland).	16-17
	Appendix 5. List of components (Passport) for the installation kit of one end coupling for external installation THP-N-10 CF3 (S) SOZNANIIE, serial production of the company "RADPOL" SA. (Poland).	18-19
	Appendix 6 Technical drawing of the clutch assembly JHP-10 CF3 150-240 (S) SOZNANIIE.	20
	Appendix 7 Technical drawing of the clutch assembly THP-I-10 CF3 150-240 (S) SOZNANIIE.	21
Appendix 8 Technical drawing of the clutch assembly THP-N-10 CF3 150-240 (S) SOZNANIIE.	22	

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	$\pm 20\%$

Coupling cable connecting JHP-10 CF3 (S) SOZNANIE



Coupling cable terminal internal installation THP - I -10-CF3 (S) SOZNANIE



Coupling cable terminal external installation THP-N-10-CF3 (S) SOZNANIE



Cable AABI 3x240 10kV .



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	0-600 kPa 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 JHP-10-CF3 150-240 (S) SOZNANIIE , which are representative samples of couplings serially manufactured by RADPOL S. A. (Poland)-3 pcs.

Cable end couplings for internal installation THP-I-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings mass -produced by the company RADPOL S. A (Poland)-3 pcs.

Cable end couplings for external installation THP-N-10-CF3 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, No. 7, No. 8, No. 9 were mounted for testing .

Tested samples No. 1 , No. 2, No. 3 consist of sections of three-wire AABl cable 3x240-10 kV 1,5 m with a length of - samples of couplings manufactured in series by the company RADPOL SA (Poland) .

Tested samples No. 4, No. 5, No. 6 consist of sections of three-core AABl cable 3x240-10 kV with a 1,2 m length of THP-I-10-CF3 150-240 (S) SOZNANIIE , which are representative samples of couplings mass-produced by RADPOL SA (Poland) .

Tested samples No. 7, No. 8, No. 9 consist of sections of three - core AABl cable 3x240-10 kV with a 1,2 m length of THP - N -10-CF3 150-240 (S) SOZNANIIE , which are representative samples of couplings manufactured in series 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 a guaranteed supply of pressure inside 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 JHP-10-CF3 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; final internal installation type THP-I-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings manufactured in series by RADPOL SA (Poland) according to the requirements of TZ 3599-002-01394461-04-Y22; final external installation type THP-N-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings manufactured in series by RADPOL SA (Poland) according to the requirements of TZ 3599-003-01394461-04-Y22.

2.2. Test program: tests were carried out to meet the requirements of TK 3599-001-01394461-04-U22, TK 3599-002-01394461-04-U22, TK 3599-003-01394461-04-U22.

2.3. Test method: the tests were carried out according to the methods specified in TK 3599-001-01394461-04-U22, TK 3599-002-01394461-04-U22, TK 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.

JHP-10-CF 3 150-240 (S) SOZNANIIE - cable coupling for 3-core cable with paper insulation with armor or without armor, for voltage up to 10 kV inclusive. Complete with 4-bolt connecting sleeves, soldered, non-soldered or combined grounding system.

THP-I-10-CF3 150-240 (S) SOZNANIIE - cable terminal coupling for internal installation on a 3-core cable with paper insulation with armor or without armor, for a voltage of up to 10 kV inclusive . Equipped with 2 bolt tips, soldered, non-soldered or combined grounding system.

THP-N-10-CF3 150-240 (S) SOZNANIIE- cable terminal coupling for external installation on a 3-wire cable with paper insulation with armor or without armor, for voltage up to 10 kV inclusive . Equipped with 2 bolt tips, soldered, non-soldered or combined grounding system.

Technical characteristics of the cable AABI 3x240 10kV, on which couplings are installed.

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

Application of AABI 3x 240 10kV.

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 3x240 10kV	
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 3x 240 10kV.

Single-wire aluminum current-conducting cores 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 3x 240 10kV.

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

The permissible temperature of long-term heating of the core is no more than 60° C, when overloaded, up to 80°C is allowed. Flexibility class – 1. Outer diameter - 60 MM.

6. Results of compliance tests.

For samples of cable couplings: JHP-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings mass-produced by the company RADPOL SA (Poland) according to the requirements of TK 3599-001-01394461-04-U22; THP-I-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings mass-produced by RADPOL SA (Poland) according to the requirements of TK 3599-002-01394461-04-U22; THP-N-10-CF3 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	Test parameters	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 1 0 min.	P
2	TK 3599-002-01394461-04-U22	TK 3599-002-01394461-04-U22	Gas pressure test 294 kPa (3 kgf / cm ²) within 1 0 min.	P
3	TK 3599-003-01394461-04-U22	TK 3599-003-01394461-04-U22	Gas pressure test 294 kPa (3 kgf / cm ²) within 1 0 min.	P

RESULTS

Based on the test results, tested samples of cable couplings: connecting heat-shrink type JHP-10-CF3 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** ; final internal installation type THP-I-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings manufactured in series by the company RADPOL SA (Poland) - meet the requirements of **TK 3599-002-01394461-04-U22** ; final external installation type THP-N-10-CF3 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 No. 1

Gas pressure test 294 kPa cable couplings connecting heat-shrink type JHP-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings manufactured in series by the company RADPOL SA (Poland), we carry out according to the requirements of TZ 3599-001-01394461-04-Y22 .

Start date	11/29/2022
End date	29.11.2022
Relative humidity	76%
The temperature is	24°C
Atmospheric pressure	980 mbar
Gas pressure	290-310 kPa

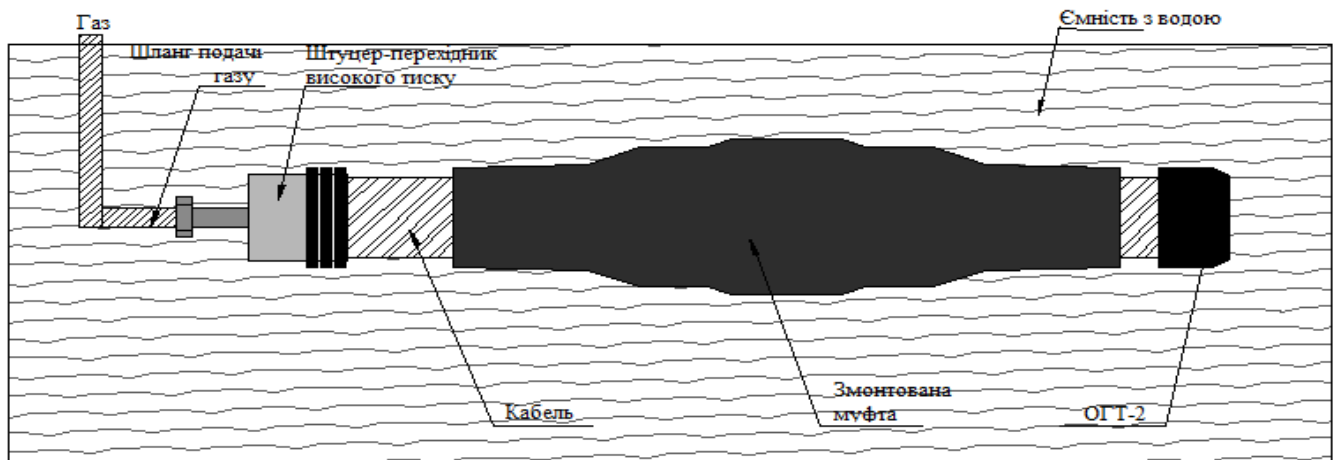
Test description.

For JHP-10-CF3 150-240 (S) SOZNANIIE cable connecting heat-shrinkable couplings, which are representative samples of couplings manufactured by RADPOL SA (Poland).

Samples No. 1, No. 2, No. 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 No. 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 kgf/cm² .

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

Picture No. 1 .



The manometer reading at the end of the test was:

The name of the coupling	Sample No	Manometer readings
JHP-10-CF3 150-240 (S) SOZNANIIE	1	3.0 kgf/cm ²
JHP-10-CF3 150-240 (S) SOZNANIIE	2	3.1 kgf/cm ²
JHP-10-CF3 150-240 (S) SOZNANIIE	3	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.

Test No. 2

Gas pressure test of 294 kPa cable end couplings for internal installation THP-I-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings manufactured in series by the company RADPOL SA (Poland) - carried out in accordance with the requirements of TZ 3599-002- 01394461-04-U22, and the THP-N-10-CF3 150-240 (S) SOZNANIIE cable terminal coupling for external installation, which are representative samples of couplings manufactured in series by RADPOL SA (Poland) - we carry out according to the requirements of T3 3599- 003-01394461-04-U22 .

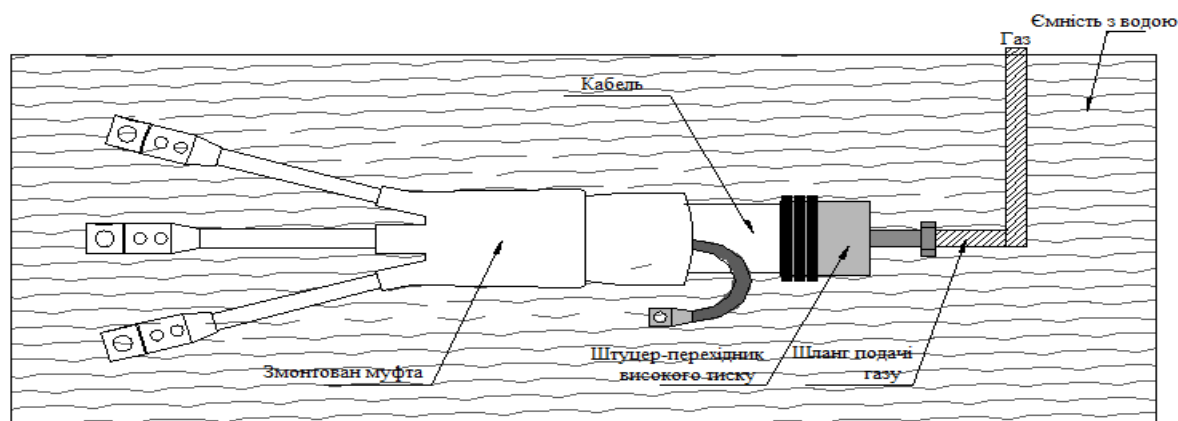
Start date	11/30/2022
End date	11/30/2022
Relative humidity	76%
The temperature is	24°C
Atmospheric pressure	980 mbar
Gas pressure	290-310 kPa

For THP-I-10-CF3 150-240 (S) SOZNANIIE cable end couplings for internal installation, which are representative samples of couplings mass-produced by RADPOL SA (Poland) and cable end couplings for external installation THP-N-10-CF3 150-240 (S) SOZNANIIE, which are representative samples of couplings mass-produced by RADPOL SA (Poland).

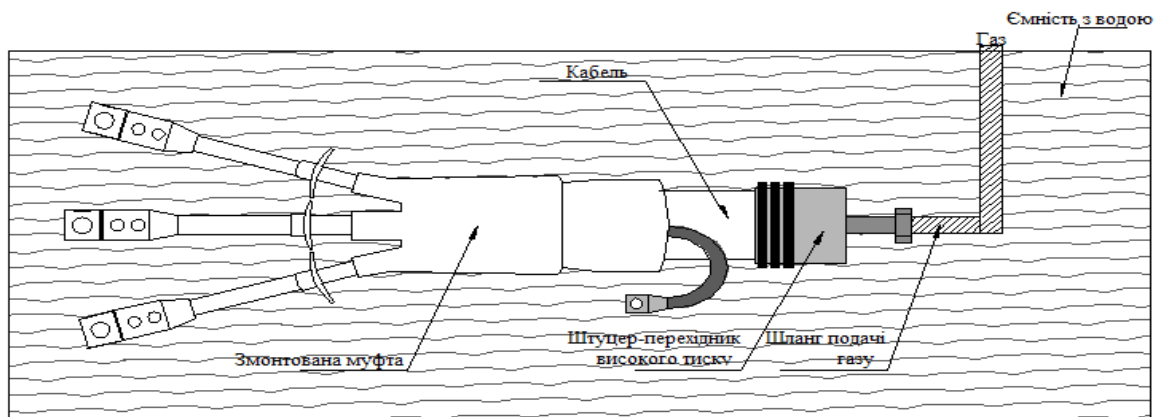
#4, #5, #6 , as shown in Figure #2, and samples #7, #8, #9 , as shown in Figure #3, mounted on a cable segment , completely submerged in water, through a special fitting under a pressure of at least 294 kPa (3 kgf/cm²). Gas was supplied to the clutch using a compressor. The gas pressure did not decrease to 2.91 kgf/cm² and did not increase to 3.3 kgf/cm² within 10 minutes.

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

Picture No. 2.



Picture No. 3 .



The manometer reading at the end of the test was:

The name of the coupling	Sample No	Manometer readings
THP-I-10-CF3 150-240 (S) SOZNANIIE	4	3.0 kgf/cm ²
THP-I-10-CF3 150-240 (S) SOZNANIIE	5	3.0 kgf/cm ²
THP-I-10-CF3 150-240 (S) SOZNANIIE	6	3.1 kgf/cm ²
THP-N-10-CF3 150-240 (S) SOZNANIIE	7	3.1 kgf/cm ²
THP-N-10-CF3 150-240 (S) SOZNANIIE	8	3.0 kgf/cm ²
THP-N-10-CF3 150-240 (S) SOZNANIIE	9	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.

APPENDIX No. 3

COMPLETE INFORMATION (PASSPORT)

for the installation kit of one joint heat-shrinkable coupling JHP -10- CF 3 (S) SOZNANIE, serially produced by the company " RADPOL " SA (Poland).

Names of parts and assembly materials		Unit ex..	JHP-10-CF3 16÷50(S) SOZNANIE	JHP-10-CF3 70÷120(S) SOZNANIE	JHP-10-CF3 150÷240(S) SOZNANIE
1.	*Heat-shrinkable glove with insulating adhesive layer AK 3 25-120	piece	2	-	-
	AK 3 95-300	piece	-	2	2
2.	shrink tube No. 1 RDK for restoring the cable sheath				
	9 5/25x 800 ⁻⁵⁰ mm	piece	1	-	-
	95 /25x 800 ⁻⁵⁰ mm	piece	-	1	-
	10 5 / 32 x 900 ⁻⁵⁰ mm	piece	-	-	1
3.	Sleeve film 1200 x 200 mm	piece	1	1	1
4.	shrink tube No. 2 RDK - outer protective casing				
	105/32 x 1200 ⁻⁵⁰ mm	piece	1	-	-
	1 05 / 32 x1 200 ⁻⁵⁰ mm	piece	-	1	-
	140/ 34 x1 200 ⁻⁵⁰ mm	piece	-	-	1
5.	Oil-resistant heat-shrink tube No. 3 R PKH 1 for insulating cable cores				
	22/6 x 400 mm	piece	6	-	-
	25/1 0 x 40 0 mm	piece	-	6	-
	40 / 16 x 40 0 mm	piece	-	-	6
6.	shrink sleeve No. 4 R P KH 1/RGK for isolating the contact connection				
	35/12 x 200 mm	piece	3	-	-
	40/16 x 200 mm	piece	-	3	-
	55/15 x 250 mm	piece	-	-	3
7.	Sealant for leveling the electric field (for sleeves) in size (Mastik-masa sterujący (connector))				
	25 x 2 x 450 (3x450=1350) mm	piece	3	-	-
	25x2x450 (3x450= 1350) mm	piece	-	3	-
	25x2x600 (3x600= 1800) mm	piece	-	-	3
8.	Tinned copper earthing wire (Rękaw miedziany) RTc				
	cross-section 16 mm ² length850 mm	piece	1	-	-
	cross-section 16 mm ² length1200 mm	piece	-	1	-
	cross section 25 mm ² length1200 mm	piece	-	-	1
9.	*Screw cable sleeves mm ²				
	16 - 50	piece	3	-	-
	70 - 120	piece	-	3	-
	150 - 240	piece	-	-	3
10.	*Aluminum foil 0.2x50x8000 mm.	piece	1	-	-
	*Aluminum foil 0.2 x 50 x 10000 mm.	piece	-	1	1
11.	* Spring PPT No. 2 (Zacisk spruzynowy) S 2	piece	4	-	-
	* Spring PPT No. 3 (Zacisk spruzynowy) S 3	piece	-	4	-
	* Spring PPT No. 4 (Zacisk spruzynowy) S 4	piece	-	-	4
12.	*Contact plate (grater)	piece	4	4	4
thirt een.	* Solder POS-30	kg	0.075	0.075	0.075
14.	* Brand A adhesive	kg	0.05	0.05	0.05
15.	* Soldering fat 10 gr.	piece	1	1	1
16.	Wire Ø 1.0...1.4 OZ	m	3.75	5.0	5.0
17.	Interphase spacer with applied sealant (przekładkę PE (trójkątną))				
	MV 30x1.5x200 mm	piece	1	-	-
	MV 3 5 x 1.5 x 250 mm	piece	-	1	1
18.	napkin (chusteczki czyszczące)	piece	3	3	3
19.	Napkin with silicone oil (chusteczki silikonowe)	piece	2	2	2
20.	Linen threads (sznurek przewiazkowy)	m	3.0	3.0	3.0
21.	a) Mesh for aggregate bandage, length 2000 x 50 mm	piece	1	-	-
	b) Mesh for aggregate bandage, length 3000 x 50 mm	piece	-	1	-

	in) Mesh for aggregate bandage, length 3500 x 50 mm	piece	-	-	1
	d) Mesh for tape bandage - sealing of the grounding node (armor and shell), length 200 x 100 mm	piece	2	-	-
	e) Mesh for tape bandage - sealing of the grounding node (armor and shell), length 300 x 100 mm	piece	-	2	2
22.	a) filler of the root part (Mass sealing (star) 25x1.5x200 mm	piece	2	2	2
	b) thermosetting interfacial filler (Masa szečkijając fulnienie) 50x16x550 mm	piece	3	3	3
	in) sealant tape for sealing the grounding node on the shell (on the armor) (Masa zeczyłająca(pancerz)) 50x1.5x250 mm	piece	2	-	-
	50x1.5x350 mm		-	2	2
	d) tape - sealant under a glove (AK-3) (Masa zaćelająca (palczatka)) 40x1x100 mm	piece	2	-	-
	40x1x150 mm	piece	-	2	2
23.	Used gloves	couple	1	1	1
24.	PVC tape (taśpę PVC)	piece	1	1	1
25.	Installation instructions	piece	1	1	1
26.	Carton	piece	1	1	1
Note: *- delivered to order					

COMPLETE INFORMATION (PASSPORT)
on a kit for installation of one final coupling of internal installation THP-I-10 CF3 (S) SOZNANIE,
serial production of the company "RADPOL" SA (Poland).

Names of parts and assembly materials		Unit ex.	Quantity per clutch		
			THP-I-10-CF3 16-50(S) SOZNANIE	THP-I-10-CF3 70-120(S) SOZNANIE	THP-I-10- CF3 150- 240(S) SOZNANIE
1.	* Heat-shrinkable glove with an adhesive underlayer isolating AK3 25-120	piece	1	-	-
	AK3 95-300	piece	-	1	-
	AK3 95-300	piece	-	-	1
2.	Oil-resistant heat-shrink tube No. 1 RC for insulating cable cores 19/9.5x800mm	piece	3	-	-
	25.4/12.7x800mm	piece	-	3	-
	38/19x800mm	piece	-	-	3
3.	Heat-shrink tube No. 2 RPAT with an adhesive underlayer for insulating cable cores 35/12x800mm	piece	3	-	-
	40/16x800mm	piece	-	3	-
	50/20x800mm	piece	-	-	3
4.	Bandage cuff with RPKH 1 adhesive underlay for sealing the grounding unit 50/20x200mm	piece	1	-	-
	63/19x200mm	piece	-	1	-
	80/35x200mm	piece	-	-	1
5.	Tinned copper earthing wire, (Plecionka miedziana) length 800 mm with a cross section of 16 mm ²	piece	1	1	-
	with a cross section of 25 mm ²	piece	-	-	1
6.	Grounding wire tip Ks (Końcówka kablowa) 16/8	piece	1	1	-
	25/8	piece	-	-	1
7.	* Solder POS - 30	kg	0.05	0.05	0.05
8.	*Solder brand A	kg	0.03	0.03	0.03
9.	The wire is galvanized 1.2 mm	m	1.25	1.25	1.25
10.	*Soldering fat	piece	1	1	1
11.	*Contact plate (grater)	piece	2	2	2
12.	* Spring PPT S2 (Zacisk sprzynowy)	piece	2	-	-
	S 3 (Zacisk sprzynowy)	piece	-	2	-
	S 4 (Zacisk sprzynowy)	piece	-	-	2
thi	napkin (Chusteczka czyszcząca)	piece	2	2	2
14.	napkin (Chusteczka silikonowa)	piece	1	1	1
15.	Linen threads (Sznurek przewiązkowy)	m	1.5	1.5	1.5
16.	Filler of the root part (Masa szczelająca (MU gwiazda)) 25/1.5x100mm	piece	1	-	-
	25/1.5x150mm	piece	-	1	-
	25/1.5x200mm	piece	-	-	1
17.	PVC tape	piece	1	1	1
18.	*Screw tip, mm ² 16-50	piece	3	-	-
	70-120	piece	-	3	-

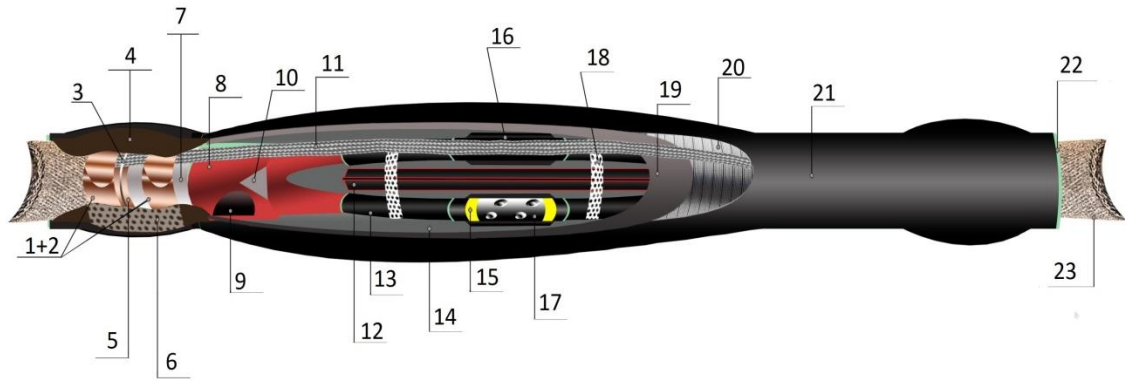
	150-240	piece	-	-	3
19.	Sealant tape for sealing the grounding node on the shell (for armor) (Masa zeczyłająca(pancerz)) 25x1.5x250 mm	piece	2	-	-
	25x1.5x350 mm	piece	-	2	2
20.	Sealant under the glove (Masa ca __ under palczatke) 40/1x100mm	piece	1	-	-
	40/1x150 mm	piece	-	1	1
21.	Tip sealant (Masa ca __ MU) _ 25/0.7x250 mm	piece	3	-	-
	25/0.7x350 mm	piece	-	3	-
	25/0.7x450 mm	piece	-	-	3
22.	Installation instructions	piece	1	1	1
23.	Used gloves	couple	1	1	1
24.	Carton	piece	1	1	1
Notes: * - delivered to order					

COMPLETE INFORMATION (PASSPORT)
for the installation kit of one end coupling for external installation THP-N-10 CF3 (S) SOZNANIIE,
serially produced by the company "RADPOL" SA (Poland).

Names of parts and assembly materials		Unit ex.	Quantity per clutch		
			THP-N-10-CF3 16-50(S) SOZNANIIE	THP-N-10- CF3 70- 120(S) SOZNANIIE	THP-N-10- CF3 150- 240(S) SOZNANIIE
1.	Glove heat shrinkable with adhesive under layer what isolates – AK3 25-120	piec e	1	-	-
	AK3 95-300	piec e	-	1	-
	AK3 95-300	piec e	-	-	1
2.	Tube heat shrinkable oil resistant No 1 RC for wire insulation cable				
	19/9.5x800mm	piec e	3	-	-
	25.4/12.7x800mm	piec e	-	3	-
	38/19x800mm	piec e	-	-	3
3.	Heat-shrink tube #2 RPAT with adhesive under layer 35/12x800mm	piec e	3	-	-
	40/16x800mm	piec e	-	3	-
	50/20x800mm	piec e	-	-	3
4.	Cuff bandage with adhesive under layer RPKH 1 50/20x200mm	piec e	1	-	-
	63/19x200mm	piec e	-	1	-
	80/35x200mm	piec e	-	-	1
5.	Wire grounding copper tinned, (Plecionka miedziana) length 800 mm cross section 16 mm ²	piec e	1	1	-
	cross section 25 mm ²	piec e	-	-	1
6.	Grounding wire tip Ks (Końcówkakablowa) 16/8	piec e	1	1	-
	25/8	piec e	-	-	1
7.	*Solder POS - 30	kg	0.05	0.05	0.05
8.	*Solder brands AND	kg	0.03	0.03	0.03
9.	Wire galvanized 1.2 mm	m	1.25	1.25	1.25
10.	*Fat soldering iron	piec e	1	1	1
11.	*Contact plate (grater)	piec e	2	2	2
12.	*Spring PPT S2(Zacisk springy)	piec e	2	-	-
	S3 (Zacisk springy)	piec e	-	2	-

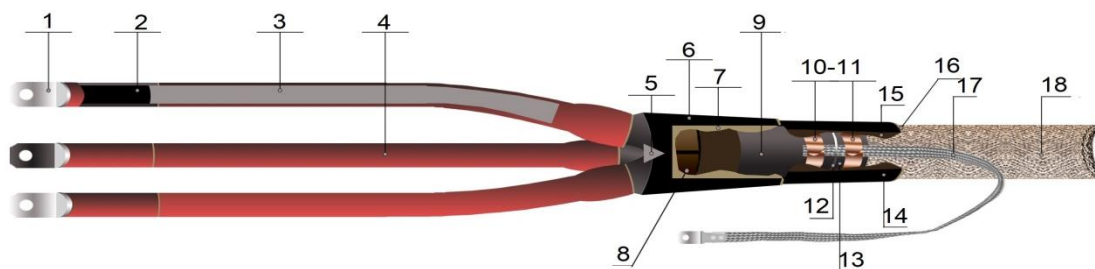
	S4 (Zacisk springy)	piec e	-	-	2
thirt een.	Napkin alcohol (Chusteczka czyszcząca)	piec e	2	2	2
14.	Napkin silicone (Chusteczka silicone)	piec e	1	1	1
15.	Threads linen (Sznurek przewiązkowy)	m	1.5	1.5	1.5
16.	Placeholder root parts (Masa sealer(MU star)) 25/1.5x100mm	piec e	1	-	-
	25/1.5x150mm	piece	-	1	-
	25/1.5x200mm	piece	-	-	1
17.	Tape PVC	piec e	1	1	1
18.	Insulator (Klosz termokurczliwy) CES-1	piec e	3	3	-
	CES-2	piec e	-	-	3
19.	* Tip screw, m m ² 16-50	piec e	3	-	-
	70-120	piec e	-	3	-
	150-240	piec e	-	-	3
20.	Sealant tape for sealing grounding node onshell (for armor) (Masa pancierz) 25x1.5x250 mm	piece	2	-	-
	25x1.5x 350 m	piece	-	2	2
21.	Sealant under the glove (Masa zaćelająca podpalczatke) 40/1x100mm	piece	1	-	-
	40/1x150 mm	piece	-	1	1
22.	Sealant on tip (Masa sealer MU endowka) 25/0.7x250 mm	piece	3	-	-
	25/0.7x350 mm	piece	-	3	-
	25/0.7x450 mm	piece	-	-	3
23.	Instruction with installation	piece	1	1	1
24.	Gloves b/p	coupl e	1	1	1
25.	Carton	piece	1	1	1
Notes: * - supplied by by order					

Technical drawing of the clutch assembly JHP-10 CF3 150-240 (S) SOZNANIE.



1. PPT spring (**Zacisk sprężynowy**). 2. Contact plate (grater). 3. Wire \varnothing 1.0...1,4 OZ. 4. Sealant tape for sealing the grounding unit on sheath (for armor) (**Masa uszczelniająca(pancersz)**). 5. Cable armor. 6. Mesh for tape bandage - sealing of the grounding node (armor and shell) 7. Metal sheath of the cable. 8. Heat-shrinkable glove with **AK-3** adhesive underlayer. 9. Sealant tape under the glove (**AK-3**) (**Masa uszczelniająca(palczatka)**) 10. Filler of the root part (**Masa uszczelniająca(gwiazda)**). 11. Tinned copper earthing wire (**Rękaw miedziany**) **RTe**.12. Interphase spacer with applied sealant (rghekiadke**RE**(Igb) kapa). 13. Heat-shrinkable, oil-resistant tube **№3 RPKH1** for insulating the cores of the cable.14. Hot-melt interphase filler (**Masa uszczelniająca wypełnienie**).15. Sealant for leveling the electric field (for sleeves) (**Mastik-masasterujący (złączka)**).16. Heat-shrinkable sleeve **№4 RPKH 1/RGK** for insulating the contact connection. 17. Screw cable sleeves. 18. Grid for aggregate bandage. 19. Heat-shrink tube **№ 1 RDK** for restoring the cable sheath. 20. Aluminum foil. 21. Heat-shrink tube **№ 2 RDK** - external protective casing. 22. Glue-melt. 23. Cable.

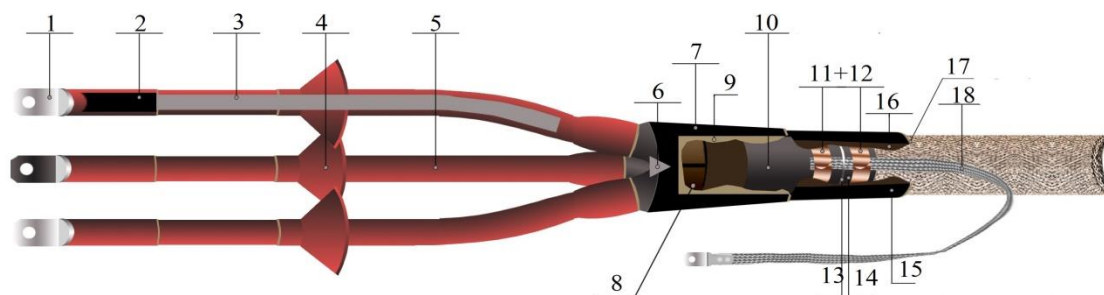
Technical drawing of the clutch assembly THP-I-10 CF3 150-240 (S) SOZNANIE



1. Screw tip. 2. Sealant for the tip (**Masa uszczelniająca MU koncowka**). 3. Heat-shrinkable oil-resistant tube № 1 **RC** for insulating cable cores. 4. Heat-shrink tube № 2 **RPAT** with an adhesive underlayer for insulating the cable cores. 5. Filler of the root part (**Masa szczeciająca (MU gwiazda)**). 6. Glove heat-shrinkable with an adhesive underlayer. 7. Sealant under the glove (**Masa uszczelniająca pod palczatke**). 8. Shield of electrically conductive paper. 9. Metal sheath of the cable. 10. PPT spring. 11. Contact plate (grater). 12. Galvanized wire. 13. Cable armor. 14. Bandage cuff with adhesive sublayer **RPKH 1** for sealing the grounding node 15. Sealant tape for sealing the grounding node on the shell (on armor) (**Masa uszczelniająca (pancerz)**). 16. Glue-melt. 17. Tinned copper earthing wire with a tip (**Plecionka miedziana**). 18. Cable.

APPENDIX No. 8

Technical drawing of the clutch assembly THP-N-10 CF3 150-240 (S) SOZNANIE



1. Screw tip. **2.** Sealant for the tip (**Masa uszczelniająca MU koncówka**). **3.** Heat-shrinkable oil-resistant tube № 1 RC for insulating cable cores. **4.** Insulator (**Klosz termokurczliwy**). **5.** Shrink tube No. № 2 RPAT with an adhesive layer. **6.** Filler of the root part (**Masa szczecliająca (MU gwiazda)**). **7.** Heat-shrinkable glove with an adhesive underlayer. **8.** A screen made of conductive paper. **9.** Sealant under the glove (**Masa uszczelniająca pod palczatkę**). **10.** Metal sheath of the cable. **11.** PPT spring. **12.** Contact plate (grater). **13.** The wire is galvanized. **14.** Cable armor. **15.** Bandaging cuff with an adhesive sublayer RRKN 1. **16.** Sealant tape for sealing the grounding node on the shell (on the armor) (**Masa uszczelniająca (pancerz)**). **17.** Glue-melt. **18.** Tinned copper earthing wire with a tip, (**Plecionka miedziana**).