

CERTIFICATE OF CONFORMITY

No. DZC.522.14.3.2025

Issue No. 01 of 2025.02.10

*Name and address of
the certificate holder:*

RADPOL S.A.
ul. Batorego 14
77-300 Człuchów

Name of the product:

Cable terminations

Type:

Indoor terminations:
THP-I-20-CF3/450-1200 i THP-I-20-CF3/450-1200 (S)
Outdoor terminations:
THP-N-20-CF3/450-1200 i THP-N-20-CF3/450-1200 (S)

Manufacturer:

RADPOL S.A.
ul. Batorego 14
77-300 Człuchów

Parameters:

According to the appendix

Application of the product:

Terminations designed for ending cables with impregnated paper insulation in power systems with rated voltage up to 20 kV

*The product meets
requirements of:*

HD 629.2 S2:2006 i HD 629.2 S2:2006/A1:2008

*According to the
report made by:*

Institute of Power Engineering - National Research Institute

*Number of the evaluation
report:*

DZC.522.14.2025

Period of validity:

from 10th of February 2025 until 09th of February 2028

The right to use the certificate of conformity within its validity period applies only to:

- these copies that meet the requirements specified above and have the same characteristics (parameters) as the model / product samples submitted for testing
- certificate holder or his authorized representative

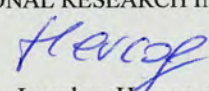
The list of evidenced parameters is included in the appendices to the certificate of conformity.

Number of appendices: 1

THE SYSTEM OF PRODUCT CERTIFICATION PC_1a (Program 1a acc. to PN-EN ISO/IEC 17067:2014-01)
(product parameters confirmed by type test)



pp of the ACTING DIRECTOR OF
INSTITUTE OF POWER ENGINEERING
– NATIONAL RESEARCH INSTITUTE


Dr. Jarosław Hercog, PhD

Warsaw, 2025.02.10



Instytut
Energetyki



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APPENDIX TO THE CERTIFICATE OF CONFORMITY

No. DZC.522.14.3.2025

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LIST OF EVIDENCED PARAMETERS

Termination type	THP-I-20-CF3/450-1200 THP-I-20-CF3/450-1200 (S)	THP-N-20-CF3/450-1200 THP-N-20-CF3/450-1200 (S)
Application	Indoor	Outdoor
Rated voltage U_0 / U (Um)	12/20 (24) kV	
Rated cross-section of the Al (RE or RM) or Cu (RM) cable conductor	95 ÷ 240 mm ²	
Maximum outside diameter of paper insulated cable	88 mm	
Tests acc HD 629.2 S2:2006 i HD 629.2 S2:2006/A1:2008, Table 2 and 3	Test sequences A1, A2 i A3	
DC withstand voltage 6 U_0 during 15 min, dry	No breakdown	
AC withstand voltage 4,5 U_0 during 5 min, 3 U_0 during 4 h and 2,5 U_0 during 15 min, dry	No breakdown	
AC withstand voltage 4 U_0 during 1 min, dry	-	No breakdown
Lightning impulse withstand voltage at elevated temperature and at ambient temperature (10 impulses of each polarity)	125 kV No breakdown	
Heating cycles voltage in air: 126 cycles (5 h / 3 h) at 1,5 U_0	No breakdown	
Immersion test	-	10 cycles
Short-circuit thermal withstand current of the 306,5 mm ² cable screen during 1s ¹⁾	11,8 kA	
Short-circuit thermal withstand current of the 120 mm ² aluminum cable conductor during 1s	16,1 kA	
Dynamic short circuit withstand current 120 mm ² aluminum cable conductor	40 kA	
Humidity test	300 h at 1,25 U_0	-
Salt fog test	-	1000 h at 1,25 U_0



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LIST OF EVIDENCED PARAMETERS

Assembly instructions, packing lists

1900: 2011-02-16 / 2011-05-09
1901: 2011-02-16 / 2013-02-28
1902: 2011-02-16 / 2011-05-09
1903: 2011-02-16 / 2013-02-28
1904: 2011-02-16 / 2011-05-09
1905: 2011-02-16 / 2013-02-27
1906: 2011-02-16 / 2011-05-09
1907: 2011-02-16 / 2013-02-27
1908: 2011-02-16 / 2011-07-09
1909: 2011-02-16 / 2013-02-26
1910: 2011-02-16 / 2011-07-09
1911: 2011-02-16 / 2013-02-26
1912: 2011-02-16 / 2011-07-09
1913: 2011-02-16 / 2013-02-25
1914: 2011-02-16 / 2011-07-09
1915: 2011-02-16 / 2013-02-23

NOTES: -

- 1) The thermal short-circuit current tests of the cable screen were performed at the initial temperature of cable equal to the ambient temperature.
2. The given parameters are assigned to THP-I-20-CF3/450-1200, THP-I-20-CF3/450-1200(S), THP-N-20-CF3/450-1200 and THP-N-20-CF3/450-1200(S) type terminations with cables with the following parameters: Number of phases: 3 or 1. Main conductor: aluminium or copper, round. Insulation: impregnated paper. Insulation screen: semiconducting paper.
3. Connectors used in the joints should have documented tests according to IEC 61238-1-3:2018 ed. 1.0.
4. The certificate covers also the accessories with lower U_0 provided that the radial electrical stress at the insulation screen of the cable of lower U_0 is not greater than that of the test cable.

