

CERTIFICATE OF CONFORMITY

No. DZC.522.14.2.2025

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:

Heat shrink straight cable joints

Type:

JHP-20-CF3 i JHP-20-CF3 (S)

Manufacturer:

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

Parameters:

According to the appendix

Application of the product:

**Joints designed for connecting 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



AC 117

APPENDIX TO THE CERTIFICATE OF CONFORMITY

No. DZC.522.14.2.2025

Issue No. 01 of 2025.02.10

LIST OF EVIDENCED PARAMETERS

Joint type	JHP-20-CF3 JHP-20-CF3 (S)
Rated voltage $U_0 / U (U_m)$	12/20 (24) kV
Rated cross-section of the Al (RE or RM) or Cu (RM) cable conductor	$95 \div 240 \text{ mm}^2$
Maximum outside diameter of cable	88 mm
Tests acc HD 629.2 S2:2006 i HD 629.2 S2:2006/A1:2008, Table 4	Test sequences I B1, II B1 i I-II B2
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
Impact test at ambient temperature $4 \text{ kg} / 1 \text{ m}$	Positive
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: 63 cycles (5 h / 3 h) at $1,5 U_0$	No breakdown
Heating cycles voltage in water: 63 cycles (5 h / 3 h) at $1,5 U_0$	No breakdown
Short-circuit thermal withstand current of the $306,5 \text{ mm}^2$ cable screen during 1s ¹⁾	11,8 kA
Short-circuit thermal withstand current of the 120 mm^2 aluminum cable conductor during 1s	16,2 kA
Dynamic short circuit withstand current 120 mm^2 aluminum cable conductor	40 kA
Assembly instructions, packing lists	1525: 2011-06-17 / 2011-06-15 1526: 2011-06-17 / 2011-06-1712

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.
- The given parameters are assigned to JHP-20-CF3 and JHP-20-CF3 (S) type joints with cables with the following parameters: Cable with paper insulation: Number of phases: 3 or 1. Main conductor: aluminium or copper, round. Insulation: impregnated paper. Insulation screen: semiconducting paper.
- Connectors used in the joints should have documented tests according to IEC 61238-1-3:2018 ed. 1.0.
- 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.

