



**Instytut  
Energetyki**

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– NATIONAL RESEARCH INSTITUTE**  
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AC 117

# **CERTIFICATE OF CONFORMITY**

**No. DZC.522.57.2.2024**

**Issue No. 01 of 2024.07.12**

*Name and address of  
the certificate holder:*

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

*Name of the product:*

**Outdoor termination**

*Type:*

**TLP-N-CX3, TLP-N-CX3/750, TLP-N-CX3/1000  
TLP-N-CX4, TLP-N-CX4/750, TLP-N-CX4/1000**

*Manufacturer:*

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

*Parameters:*

**According to the appendix**

*Application of the product:*

**For terminating low voltage 3-, 4-core cables 0,6/1 (1,2) kV with  
extruded insulation, of type N(A)YY-J, N(A)YY-O**

*The product meets  
requirements of:*

**EN 50393:2015**

*According to the  
reports made by:*

**Instytut Energetyki**

*Number of the  
type test report:*

**EWP/57/E/2020-1, EWP/57/E/2020-2, EWP/57/E/2020-3,  
EWP/57/E/2020-4, EWP/57/E/2020-5**

*Period of validity:*

**from 12<sup>th</sup> of July 2024 until 11<sup>th</sup> of July 2027**

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 DIRECTOR OF  
INSTITUTE OF POWER ENGINEERING  
– NATIONAL RESEARCH INSTITUTE

Prof. Grzegorz Tchorek, DSc, PhD

Warsaw, 2024.07.12





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## APPENDIX TO THE CERTIFICATE OF CONFORMITY

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### LIST OF EVIDENCED PARAMETERS

Outdoor termination type	TLP-N-CX3, TLP-N-CX3/750, TLP-N-CX3/1000 TLP-N-CX4, TLP-N-CX4/750, TLP-N-CX4/1000
Rated voltage $U_0/U$ ( $U_m$ )	0,6 / 1,0 (1,2) kV
Mounting instruction and material specification <sup>1)</sup> for cables 3-core: 4-core:	Outdoor termination: TLP-N-CX3, TLP-N-CX3/750, TLP-N-CX3/1000 TLP-N-CX4, TLP-N-CX4/750, TLP-N-CX4/1000
Conductor cross-section <sup>2)3)</sup> Cu, Al (RM, RE) Cu, Al, (SE, RE, SM, RM)	16 mm <sup>2</sup> (25 – 240) mm <sup>2</sup>
Type tested acc. EN 50393: 2015-03, Table 5	D1 test sequence for outdoor termination of type II
Impulse voltage withstand at ambient temperature	8 kV for conductor cross-section $\leq 50$ mm <sup>2</sup> 20 kV for conductor cross-section $> 50$ mm <sup>2</sup>
AC voltage withstand 4 x U for 1 min (in air) 4 x U for 1 min (immersed)	No failure No failure
Heating cycle in air, temperature 95...100 °C	63 cycles (5h/3h)
Heating cycle in water, (water head of 1000 mm): temperature 95...100 °C	63 cycles (5h/3h)
Insulation resistance (immersed) (water head of 1000 mm): voltage of 1 kV DC during 3 min	$\geq 50$ M $\Omega$

#### NOTES:

- <sup>1)</sup> Material specification of outdoor terminations:
  - for 3-core cables: of types TLP-N-CX3, TLP-N-CX3/750, TLP-N-CX3/1000 of identity numbers 1713, 1713.1, 1713.2
  - for 4-core cables: of types TLP-N-CX4, TLP-N-CX4/750, TLP-N-CX4/1000 of identity numbers 1711, 1711.1, 1711.2





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2. <sup>2)</sup> According to EN 50393: 2015, p. 6.2.3
3. <sup>3)</sup> Type tested according to EN 50393: 2015. In terms of conductors admissible for testing, the EN 50393: 2015 p. 7.2 standard refers to the HD 603 standard or other relevant cable standards.
4. Conductor connectors used with terminations shall comply with EN 50393: 2015-03, p. 4.1

