



**Instytut
Energetyki**

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– NATIONAL RESEARCH INSTITUTE**
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AC 117

CERTIFICATE OF CONFORMITY

No. DZC.522.57.1.2024

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: Straight joints

Type: LVJSC, LVJTC, LVJC, LVJD, LVJDS, LVJDSP

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

Parameters: According to the appendix

Application of the product: For connecting low voltage 1-, 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 12th of July 2024 until 11th 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

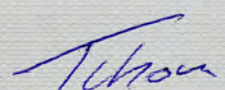
The list of evidenced parameters is included in the appendices to the certificate of conformity.

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

Straight joint type	LVJSC, LVJTC, LVJC, LVJD, LVJDS, LVJDSP
Rated voltage U_0/U (U_m)	0,6 / 1,0 (1,2) kV
Mounting instruction and material specification ¹⁾ for cables 1-core: 3-core: 4-core:	Straight joint: LVJSC LVJTC LVJC, LVJD, LVJDS, LVJDSP
Conductor cross-section ²⁾³⁾ Cu, Al (RM, RE) Cu, Al, (SE, RE, SM, RM)	16 mm ² (25 – 240) mm ²
Type tested acc. EN 50393: 2015-03, Table 3	A1 test sequence for joints of type II and impulse voltage withstand test at ambient temperature from A1 test sequence for joints of type III
Impulse voltage withstand at ambient temperature	8 kV for conductor cross-section ≤ 50 mm ² 20 kV for conductor cross-section > 50 mm ²
Impact at ambient temperature (wedge-shaped steel block of 4 kg mass from a height of 1000 mm)	No signs of cracks
AC voltage withstand 4 x U for 1 min (in air)	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	9 cycles (5h/3h), 63 cycles (5h/3h)
AC voltage withstand 4 x U for 1 min (immersed)	No failure
Insulation resistance (immersed) (water head of 1000 mm): voltage of 1 kV DC during 3 min	≥ 50 M Ω
Cylindrical shape straight connector (compression or mechanical) ⁴⁾ , maximum dimensions: length (for conductor: 16 mm ² – 240 mm ²) envelope diameter (for conductor: 16 mm ² – 240 mm ²)	(55 – 125) mm (12 – 28,5) mm



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NOTES:

1. ¹⁾ Material specification of straight joints
 - for 1-core cables: of type LVJSC of identity number 1220.4
 - for 3-core cables: of type LVJTC of identity number 1235.4
 - for 4-core cables: of type LVJ... of identity numbers: LVJC (1240.8), LVJD (1240.9), LVJDS (1240.10), LVJDSP (1240.11)
2. ²⁾ According to EN 50393: 2015, p. 6.2.3
3. ³⁾ 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. ⁴⁾ Conductor connectors used with joints shall comply with EN 50393: 2015-03, p. 4.1

