INSTITUTE OF POWER ENGINEERING
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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

Instytut Energetyki

PCA Polskie Centrum Akredytacji – Certyfikacja Wyrobów

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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 mm² (25 – 240) mm²
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 mm² 20 kV for conductor cross-section > 50 mm²
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 MΩ
Cylindrical shape straight connector (compression or mechanical) [4)], maximum dimensions: length (for conductor: 16 mm² – 240 mm²) envelope diameter (for conductor: 16 mm² – 240 mm²)	 (55 – 125) mm (12 – 28,5) mm

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LIST OF EVIDENCED PARAMETERS

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