



AC 117

INSTYTUT ENERGETYKI

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# CERTIFICATE OF CONFORMITY

No. 041/2020

Issue No. 01 from 2020.05.27

*Name and address of  
the Certificate Holder:*

ERKO sp. z o.o. sp. k.  
Ks Jana Hanowskiego 7 Str.,  
11-042 Jonkowo, Poland

*Name of the product:*

Family of mechanical connectors up to 36 kV

*Type:*

ZSSP

*Manufacturer:*

ERKO sp. z o.o. sp. k.  
Ks Jana Hanowskiego 7 Str., 11-042 Jonkowo, Poland

*Production plant:*

ERKO sp. z o.o. sp. k., Czeluśnica 80 (k. Jasła),  
38-204 Tarnowiec, Poland

*Parameters and  
application of product:*

According to appendix  
Connectors designed for connecting power cables in medium  
voltage networks.

*The product meets  
requirements of the:*

IEC 61238-1-3:2018 (ed. 1.0)

*According to the  
report made by:*

Instytut Energetyki

*Number of the  
evaluation report:*

DZC/25c/E/2020-3

*Period of validity:*

from 27<sup>th</sup> of May 2020 until 26<sup>th</sup> of May 2023

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 1 acc. to PN-EN ISO/IEC 17067:2014-01)  
(product parameters confirmed by type tests)



DIRECTOR OF  
INSTYTUT ENERGETYKI

dr hab. inż. Tomasz Gałka prof. IEn

Warsaw, 2020.05.27





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**APPENDIX TO THE CERTIFICATE OF CONFORMITY**  
**No. 041/2020**  
**Issue No. 01 of 2020.05.27**

**LIST OF EVIDENCED PARAMETERS**

Element type	ZSSP 1695 16 - 95	ZSSP 50150 50 - 150	ZSSP 95240 95 - 240
Class	A 1		
Shape of Al cables /cross-section [mm <sup>2</sup> ]	rm, rmc, sm / 16 ÷ 240		
Shape of Cu cables /cross-section [mm <sup>2</sup> ]	class 5 / 70 <sup>7)</sup>	-----	
Initial scatter $\delta^{1)}$	$\leq 0,30$		
Mean scatter $\beta^{2)}$	$\leq 0,30$		
Resistance factor ratio $\lambda^{3)}$	$\leq 2,0$		
Change in resistance factor $D^{4)}$	$\leq 0,15$		
Maximum temperature $\theta_{\max}^{5)}$	$\leq \theta_{\text{ref}}$		
Permissible tensile force [N]	$\leq 40 \times A^{6)}$ Al $\leq 60 \times A^{6)}$ Cu <sup>7)</sup>		

**NOTES:**

- 1) <sup>1)</sup> The average value of the resistance factors of six connectors before the first heating cycle.
- 2) <sup>2)</sup> The average value of the resistance factors of six connectors calculated from last 11 measurements readings. It specifies if all connectors of given type are characterized by similar changes in resistance during the heat cycles.
- 3) <sup>3)</sup> Resistance factor ratio of tested connector during the heat cycle test in relation to the initial resistance factor.
- 4) <sup>4)</sup> The value specifies the size of the resistance factor change based on last 11 measurements readings.
- 5) <sup>5)</sup> Temperature of the connector referenced to the temperature of the reference section.
- 6) <sup>6)</sup> Nominal cross-sectional area.
- 7) <sup>7)</sup> Concerns ZSSP 1695

