



**Instytut  
Energetyki**

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– NATIONAL RESEARCH INSTITUTE  
Certification and Inspection Department**

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AC 117

# **CERTIFICATE OF CONFORMITY**

**No. DZC.522.35.2025  
Issue No. 01 of 2025.07.02**

*Name and address of  
the certificate holder:*

**PLP POLAND (BELOS) S.A.  
ul. Gen. J. Kuźstrowia 74  
43 - 301 Bielsko - Biała**

*Name of the product:*

**Insulator string and earth wire sets, tension clamps and suspension  
clamps, joints, branch fittings**

*Type:*

**Links, turnbuckles, bolts, hooks, Clamps, joints, hooks.**

*Manufacturer*

**PLP POLAND (BELOS) S.A.  
ul. Gen. J. Kuźstrowia 74  
43 - 301 Bielsko - Biała**

*Parameters:*

**According to appendix**

*The product meets  
requirements of:*

**EN 61284:1997**

*According to the  
report made by:*

**Institute of Power Engineering - National Research Institute**

*Number of the evaluation  
report:*

**DZC.522.35.2025**

*Period of validity:*

**from 02<sup>nd</sup> of July 2025 until 01<sup>st</sup> of July 2028**

The right to use the certificate of conformity within its validity period applies only to:

- those copies that have the features, construction and equipment as the product samples submitted for testing
- certificate holder or his authorized representative

The list of technical data 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)**



**DEPUTY DIRECTOR OF  
INSTITUTE OF POWER ENGINEERING  
– NATIONAL RESEARCH INSTITUTE**

Warsaw, 2025.07.02

Prof. Grzegorz Tchorek, DSc, PhD



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## APPENDIX TO THE CERTIFICATE OF CONFORMITY

**No. DZC.522.35.2025**

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### LIST OF EVIDENCED PARAMETERS OF THE PRODUCT

Parameters assigned to products from the group  
Insulator string and earth wire sets

Type / variety	Catalog number	Minimum breaking load [kN]
Ball-ended eye links (ball 16)	3312	120
	3411	120
	3426	120
	3412	120
	3421	120
	3424	120
	3431	120
	3434	120
Socket tongues (ball 16)	3622	120
	3661	120
	3612	120
	3632	120
Double eyes	3521	300
	3522	120
	3521/SN	40
	35310	40
	35111	300
	35113	300
	35122/100 - 2000	120
	35123	210
	35127/70	210
	35127/210	210
	35127/410	210
	35128	300
	10104	200
	35189	270
	35190	300
35191	300	
35210	210	



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Type / variety	Catalog number	Minimum breaking load [kN]
Double eyes, twisted	3523	120
	3531	120
	3532	160
	3532/SN	40
	3533	250
	3534	250
	3535	200
	3536	140
	35310	40
	35325	200
	35217	240
	35219	210
	35220	210
Adjustable extension links	3882	120
	388211	160
	38821	160
	38823	160
	3883	160
	10502	160
	38822	300
Yokes	38830	160
	38253	40
	38253/SN	40
	38254	40
	38223/19	120
	38242/265	120
	3825	120
38251	120	



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Type / variety	Catalog number	Minimum breaking load [kN]
Extension link clevis (with rivet pin) h=150 - 1100mm	3842	120
	3837	120
	38421	120
	38351	40
	38352	40
	38421	120
	38430	120
	38431	120
	38450	120
	38451	120
	3851	120
	38513	120
	38514	120
Extension link clevis (with screw bolt) h=100 - 1600mm	10503/100 - 400	120
	10103/100 - 250	240
	38484/100 - 1600	180
	3842/S	120
	38421/S	120
	38430/S	120
	38431/S	120
	38450/S	120
	38451/S	120
	38481/100 - 1200	120
	3851/S	120
	38513/S	120
	38514/S	120
38170	160	
3837/S	120	



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Type / variety	Catalog number	Minimum breaking load [kN]
Shackles	38135	120
	38135/SN	40
	38155	180
	38138	120
	3815	160
	38115	120
	38141	120
	38141/A	120
	3815	160
	38154	210
	3816	300
	38140	70
	3817	160
	3818	160
Bow clevis/roller tension clamps	23255	40
	23252	70
	TCL6570002	68
Hinges, u-bolt type	41141A	120
	41121A	100
	41111A	100
	41161A	120
	4118A	160
Hinges	42220	120
	42220/19	120
	42197	120



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Type / variety	Catalog number	Admissible load[kN]	
		In the horizontal axis "F <sub>x</sub> "	In the vertical axis „F <sub>y</sub> ”
Hook bolt, complete	67030	3	1,6
	67031	3	1,6
	67033	3	1,6
	67039	3	1,6
	670401	3	1,6
	670441	7,5	3,5
	67045	7,5	3,5
	670451	7,5	3,5
	67046	7,5	3,5
	67047	7,5	3,5
	670471	7,5	3,5
	670481	7,5	3,5
	67048	7,5	3,5
	670491	7,5	3,5
	67065	13,5	6,0
	67066	13,5	6,0
	670661	13,5	6,0
	67067	13,5	6,0
	670671	13,5	6,0
	67068	13,5	6,0
	67069	13,5	6,0
	67070	13,5	6,0
	67071	13,5	6,0
	670441A	7,5	3,5
	67045A	7,5	3,5
	67046A	7,5	3,5
	67041	7,5	3,5
	67042	7,5	3,5
	67043	7,5	3,5



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Type / variety	Catalog number	Admissible load[kN]	
		In the horizontal axis „F <sub>x</sub> ”	In the vertical axis „F <sub>y</sub> ”
Hook bolts, complete	67044	7,5	3,5
	39015	7,5	3,5
	39035	7,5	3,5
	67290	3	1,6

Type / variety	Catalog number	Admissible load[kN]	
		In the horizontal axis „F <sub>x</sub> ”	In the vertical axis „F <sub>y</sub> ”
Hooks and bolts	67115	7	6
	67116	7	6
	67117	7	6
	67118	7	6
	67140	10	9
	67141	10	9
	67142	10	9
	67143	10	9
	674431	7,5	3,5
	674451	7,5	3,5
	67446	7,5	3,5
	67447	7,5	3,5
	674471	7,5	3,5
	67448	7,5	3,5
	674491	7,5	3,5
	67465	7,5	3,5
	674661	7,5	3,5
	67467	7,5	3,5
	67468	7,5	3,5
	67470	7,5	3,5
67472	7,5	3,5	



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Type / variety	Catalog number	Admissible load[kN]	
		In the horizontal axis "F <sub>x</sub> "	In the horizontal axis "F <sub>x</sub> "
Hooks and bolts	67050	7,5	3,5
	67056	14,5	6,0
	67185	7,5	3,5
	67185/12	3,0	1,6
	670330	3,0	1,6
	67039/250	3,0	1,6
	670670	13,5	6,0
	6706730	13,5	6,0
	67210	13,5	6,0
	40010	3,0	1,6
	40035	7,5	3,5
	40060	13,5	6,0
	38048	-	-
	38051	-	-
	38169	-	-
	38189	-	-
	38209	-	-
	38229	-	-
	38384	-	-
	38404	-	-
38424	-	-	
38444	-	-	
38464	-	-	



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Parameters assigned to products from the group  
Tension clamps <sup>1)</sup>

Type / variety	Catalog number	Minimum release load [kN]
Release links	3020	4 ±1
	3021	8 ±2
	3022	4 ±1
	3023	8 ±2

Type / variety	Catalog number	Conductor diameter	Minimum breaking load [kN]
Tension clamps	2571	AFL - 6 70	20,8
	2571/W	AFL - 6 70	20,8
	25712	AFL - 6 70/1	23,6
	25637	AFL - 1,7 70	46,1
	2572/W	AFL - 6 95	29,5
	2573	AFL - 6 120	40,2
	2573/W	AFL - 6 120	40,2
	2575	AFL - 6 185	59,3
	2575/SN	AFL - 6 185	59,3
	2577	AFL - 6 240	74,7
2577/SN	AFL - 6 240	74,7	
Compression joints	2471	AFL - 6 70	20,8
	24962	AFL - 1,7 70	46,1
	2473	AFL - 6 120	40,2
	2475	AFL - 6 185	59,3
	2477	AFL - 6 240	74,7



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Type / variety	Catalog number	Conductor diameter	Minimum slip load [kN]
<b>Branching clamps, shin-compression type</b>	50945A.0606	AFL - 6 240	4,2
	50000.0000	AFL - 6 35	1,8
	50010.0101	AFL - 6 50	1,7
	50011.0202	AFL - 6 70	2,3
	50011.021021	AFLs - 10 70	1,8
<b>Earth clamp</b>	2442	O/FL 50	6,5

Type / variety	Catalog number	Admissible load [kN]	
		In the horizontal axis "F <sub>x</sub> "	In the horizontal axis "F <sub>x</sub> "
<b>Hooks</b>	67261	7,5	5,0
	67262	7,5	5,0
	67285	3	1,6
	67286	7,5	5,0
	67284	3	1,6
	67288	3	1,6



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Parameters assigned to products from the group  
**Branch fittings**

Type / variety	Catalog number	Conductor diameter	Minimum slip load for max. conductor diameter [kN]
<b>U-bolt joints</b>	2411	35 - 50 Al/Al	10
	2412	35 - 50 Cu/Cu	10
	2413	35 - 50 Fe/Fe	10
	2421	70 - 120 Al/Al	12
	2422	70 - 120 Cu/Cu	12
	2423	70 - 120 Fe/Fe	12
	24223	70 - 120 Al/Cu	12
	2431	150 - 185 Al/Al	14
	24112	Al (8 - 11)	10
	24113	Al/Cu (8 - 11)	10
	24114	Cu (8 - 11)	10



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Parameters assigned to products from the group  
Suspension clamps

Type / variety	Catalog number	Conductor diameter	Minimum breaking load [kN]
Oscillating suspension clamps	2161	9 - 12	80
	21696	11 - 16	100
	21696/SN	11 - 16	40
	21697	16 - 20	120
	21697/SN	16 - 20	40
	216961	11 - 16	100
	216961/SN	11 - 16	40
	216971	16 - 20	120
	216971/SN	16 - 20	40
	21598	16 - 24,2	120
	21713	11 - 16	100
	21714	16 - 22	120
	217002	27 - 35	120
	21653	40 - 45	120

#### NOTES:

- <sup>1)</sup> For this group of equipment, type tests were performed excluding the cyclic heating test.

