

**PRODUCT DATA SHEET No 0035/36/37/22**

Product name: **Rigid tube RSO, Rigid coupling ZPSO lightning protection, Rigid elbow ZKO, ZKod**

Manufacturer: **ELEKTROPLAST SP. Z O.O 32-431 STRÓŻA 1015**

Reference documents:	PN-EN 62305-3:2011E, PN-IEC 61024-1-2-2002P, PN-EN 61386-21:2021-12, PN-EN 61386-1:2011/A1:2019, PN-EN 13501-1:2019 LVD Directive 2014/35/EU, Directive 2011/65/EU, NZ EL - PL 007/1/2012.
Application:	The lightning protection system is intended for the insulation of external lightning conductors LPS (Lightning Protection System), in particular when conducting the lightning conductor on and/or in combustible facades, e.g. (polystyrene) of buildings with a specific reaction to fire class. The system includes: Rigid <b>RSO</b> lightning conductor tubes, Rigid <b>ZPSO</b> connectors (connection in a straight line), <b>ZKO</b> (90°) rigid elbows intended for the insulation of the discharge conductor ( <b>aluminium</b> ) at the exit of the conductor from the combustible zone of the wall or wall insulation, e.g. polystyrene., <b>ZKod</b> (30°) intended for the insulation of the discharge conductor ( <b>steel, copper</b> ) at the exit of the conductor from the combustible zone of the wall or wall insulation, e.g. wood, polystyrene...
Product characteristics: Rigid pipe RSO, ZPSO,ZKO,ZKod	<ul style="list-style-type: none"> <li>• Rigid pipe RSO, ZPSO,ZKO,ZKod <b>self-extinguishing</b></li> <li>• Material: Rigid PVC</li> <li>• Halogen content - not declared (EN 61386-21:2021-12)</li> <li>• Reaction to fire: <b>B-s2, d0</b></li> <li>• UV-resistant for temperate climates</li> <li>• Colour grey</li> </ul>
Compressive strength RSO, ZPSO,ZKO,ZKod	1250N
Wall thickness: RSO, ZPSO,ZKO,ZKod	$C \geq 3 \text{ mm}$
Surge 1.2/50µs withstand voltage	$C \geq 100 \text{ kV}$
Chemical resistance:	At room temperature resistant to alcohols, aromatic-free petrol, glycol, hydrochloric acid (100% at 60°C), nitric acid (10% at 60°C), sulphuric acid (96% at 20°C), diesel fuel at 20°C, hydrogen sulphide at 60°C.
Temperature range: (trans, insta, exploa)	(-45°C) to (+60°C)
Outside/inside diameters [mm]:	<b>RSO 20/14;40/34 ; ZPSO 26/20;46/40 ; ZKO, ZKod 26/20;46/40</b>

Catalogue no.	Ø outside/inside	Length of section	Staff/ packaging.
<b>RSO</b>			
06.52	20/14	3m	20
06.52(2)	20/14	2m	20
06.53	40/34	3m	5
<b>ZPSO</b>			
06.54	26/20		10
06.55	46/40		5
<b>ZKO single-bladed (90°)</b>			
06.56	26/20		10



Fig. 1 Lightning protection tube RSO grey Ø20/14 and Ø40/34

Share capital: PLN 5,726,000.00 NIP: 681-18-27-742 REGON: 350141778 KRS: 0000118321

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<b>06.57</b>	<b>46/40</b>		<b>5</b>
<b>ZKO double branch (90°)</b>			
<b>06.56A</b>	<b>26/20</b>		<b>10</b>
<b>06.57A</b>	<b>46/40</b>		<b>5</b>
<b>ZKOd (30°)</b>			
<b>06.58</b>	<b>26/20</b>		<b>10</b>
<b>06.59</b>	<b>46/40</b>		<b>5</b>



Fig.2 ZKO single and double branch Ø26/20, ZKOd Ø26/20, ZKO single branch Ø46/40 grey

Table 1

Lp.	d	D	L
1. <b>ZPSO 20</b>	20 <sup>+03</sup>	26 <sup>-03</sup>	74 <sup>-05</sup>
2. <b>ZPSO 40</b>	40 <sup>+03</sup>	46 <sup>-03</sup>	79,5 <sup>-03</sup>



Fig.3,4 Coupling ZPSO grey Ø26/20 and Ø46/40

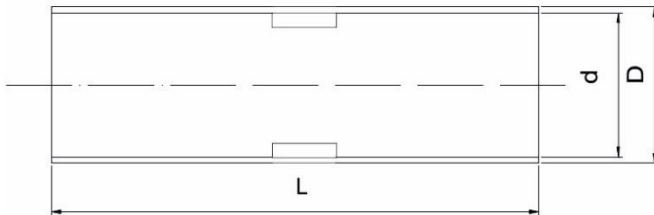


Table 1a. single and double spigot

Lp.	"d1"	"D1"	L1	L2	S
1. <b>ZKO 20</b>	20 <sup>-03</sup>	26 <sup>-03</sup>	180 <sup>+02/-05</sup>	150 <sup>+02/-05</sup>	32 <sup>+02/-05</sup>
2. <b>ZKO 40</b>	40 <sup>-03</sup>	46 <sup>-03</sup>	240 <sup>+02/-05</sup>	190 <sup>+02/-05</sup>	50 <sup>+02/-05</sup>



Fig.5 ZKO single spigot and double spigot grey

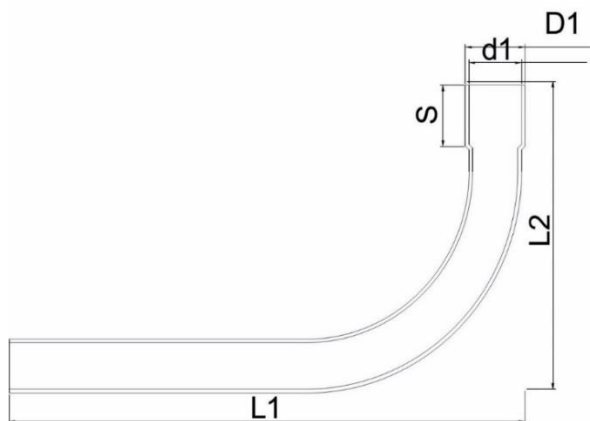
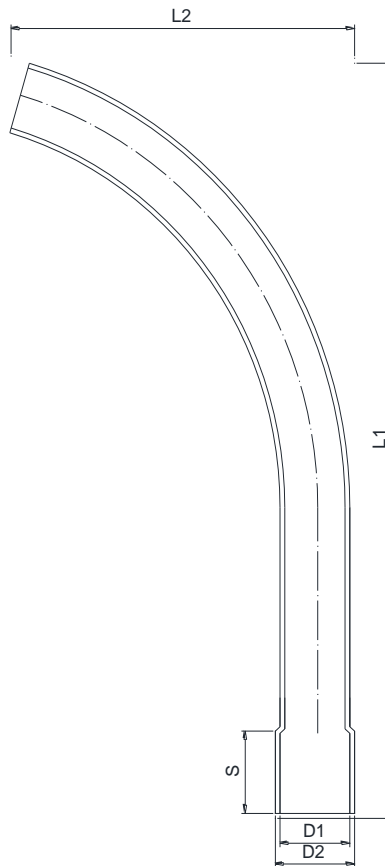


Table 1b.

Lp.	D1	D2	L1	L2	S
1ZK0d <b>20</b>	20 <sup>+03</sup>	26 <sup>-03</sup>	370 <sup>+2/-5</sup>	140 <sup>+2/-5</sup>	32 <sup>+02/-05</sup>
2ZK0d <b>40</b>	40 <sup>+03</sup>	46 <sup>-03</sup>	400 <sup>+02/-05</sup>	170 <sup>+02/-05</sup>	55 <sup>+02/-05</sup>



Fig.6 ZK0d grey Ø26/20



The above information is based on the current state of knowledge and applies to the product as manufactured by the manufacturer: Elektroplast Spółka z ograniczoną odpowiedzialnością.

In the case of use of the product for purposes other than those stated by the manufacturer, responsibility for the safety, duration and quality of use of the products falls on the user.

**Stanisław Klakla**

**The product data sheet was prepared by: Production Director**

**ELEKTROPLAST**  
 Spółka z ograniczoną odpowiedzialnością  
 DYREKTOR PRODUKCJI

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