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High voltage cable end assmebly instruction

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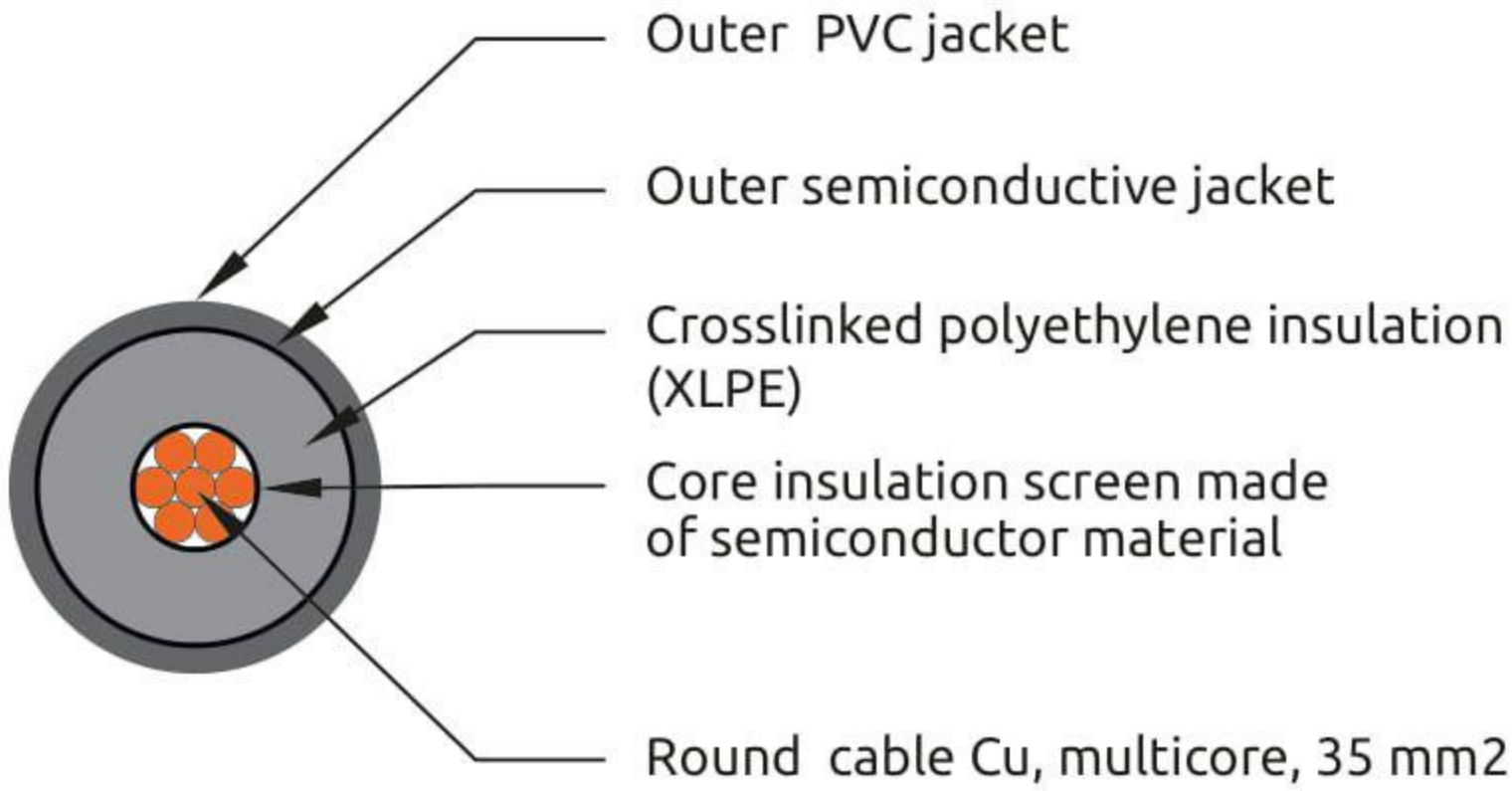
Thank you for choosing ELKO-BIS high-voltage insulated cable.

High voltage cable is used in areas where it is imposible to maintain an insulation gap from the protected elements or near the routes where there is a risk of electric shock as a result of the lightning current. Made of materials ensuring waterproofness.



High-voltage insulated cable	
Color	Black
The outer diameter	23,4 mm
Cross section of the cable core	35 mm2
Maximum conductor resistance at 20°C	0,524 Ω/km
Equivalent of separation distance for air	750 mm
Equivalent of separation distance distance for regular building materials	1500 mm
Cable weight	0,735 kg/m
Operating temperature range	from -30 C to 70 C
Assembly temperature range	from -5 C to 40 C
Minimum bending radius	about 280 mm
Cable flammability	not spreading flame
Flammability test	PN-EN 60332-1-2; IEC 60332-1

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Separation distance.

To properly use the high-voltage cable a minimum separation distance for the object should be checked in accordance with DIN EN 62305--3. Speratation distance which high voltage cable (30000199) ELKO--BIS provides in air is 75cm, and the total length of the cable should not be more than the value indicated in the table below.

	Lightning protection class		
Number of arresters	**I**	**II**	**III + IV**
1	-	12,50 m	18,75 m
2	14,20 m	18,94 m	28,40 m
3 and more	21,30 m	28,40 m	42,61 m

Table 2: Maximum Elko-bis hight-voltage insulated cable length for separation distance s = 0.75 m.

In the case where an separation distance is greater than s = 75cm, use additional cables to reduce it. The reduction of the separation distance through the application of additional conductors takes place only when the distance between the wires is not less than 20 cm. This minimizes the interaction of magnetic fields on the cables. If the wires are arranged along each other, then the separation distance and maximum cable length are not reduced. The values given in the table are valid for all type B earthting electrodes, and type A earthting electrodes, where the difference of resistance of individual electrodes is less than or equal 2. If the conditions in the building require longer cables, you should consult with an lightning protection systems expert. The maximum lenght of high-voltage cable depends on the precise spacing of the separation distance

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The set includes:

Product:	Quantity:	Photo
High voltage cable end No. 30100105	1 pcs.	
Allen screw 8x8	2 pcs.	
Allen wrench	1 pcs.	
Glue for the screws	1 pcs.	
Heat shrink tube	1 pcs.	

You can buy high-voltage insulated cable that is already prepared for assembly. When making an order, please specify the required cable lengths.

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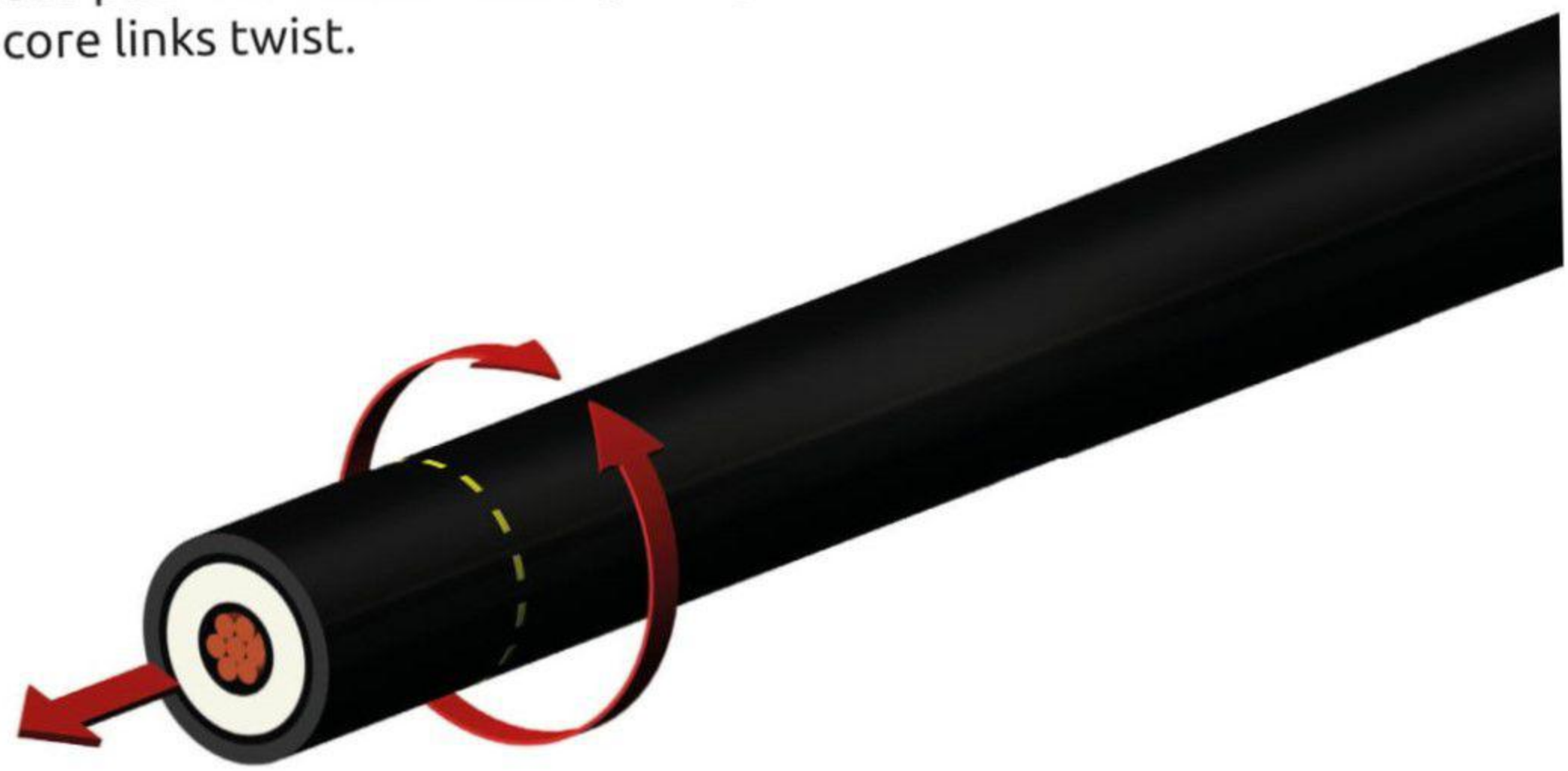
Cable preparation and installation tips.

1. At a distance of 28mm all the layers of insulation should be cut with scissors No. 31400101, without damaging the cable cores. Then use pliers to remove the layers by rotational move in the direction of core links twist.



2. Use wire debarking machine to remove the two outer cable sheath at a distance of 120mm. Wire debarking machine should be properly set to avoid damage to cross-linked polyethylene insulation film.

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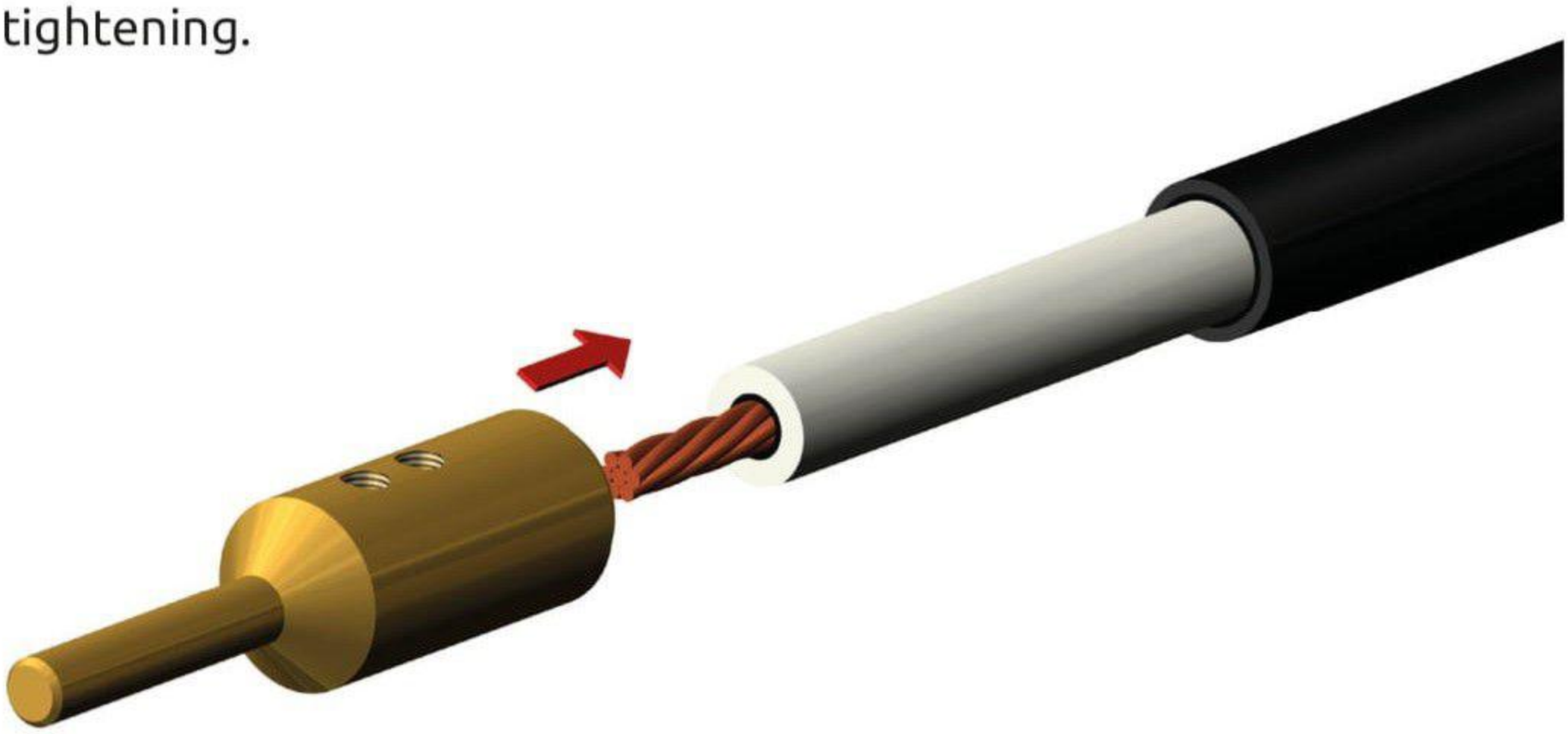
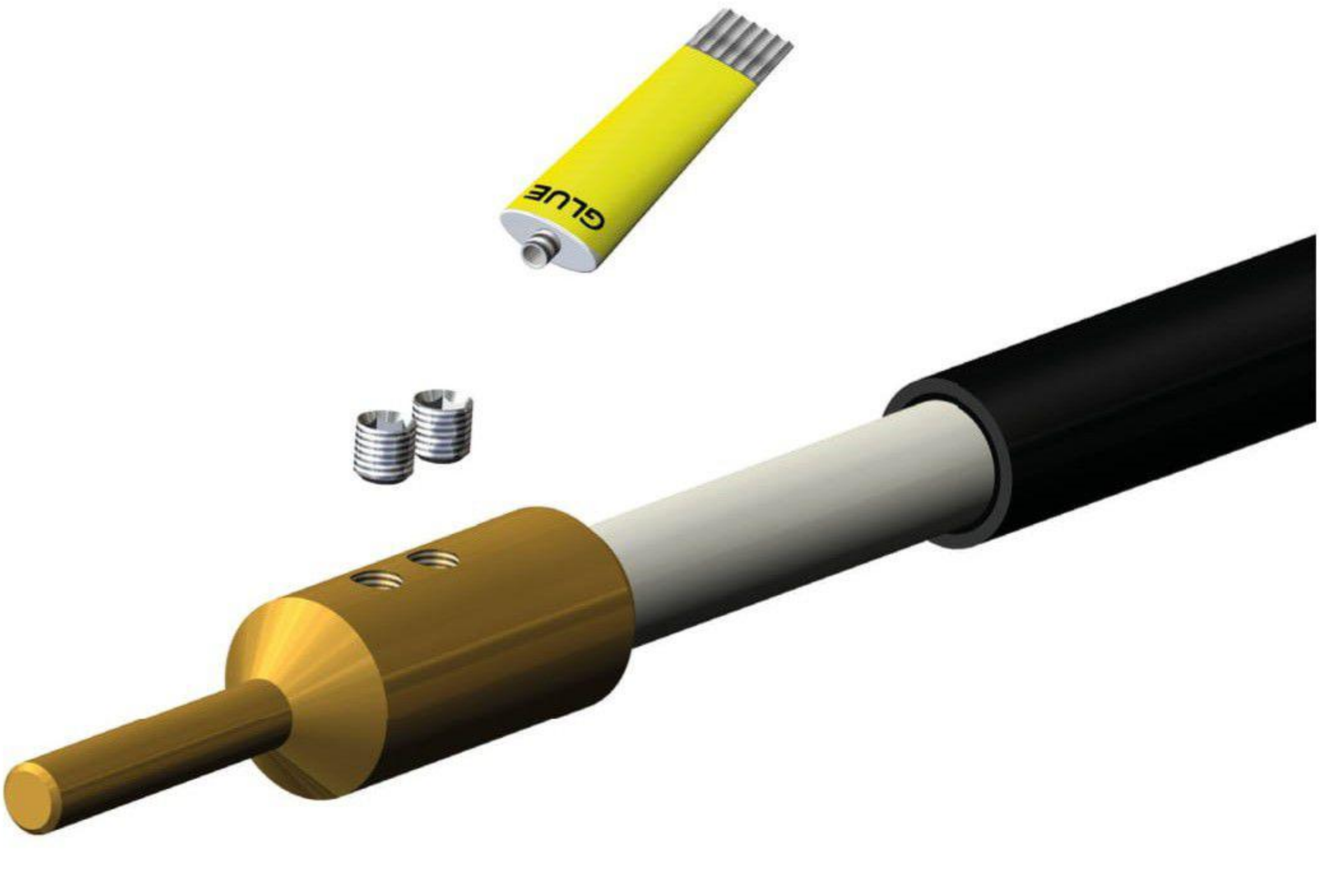
3. Put the High voltage cable No. 30100105 end onto the core of the cable. Make sure that the screws will have access to a vein when tightening.



4. Apply a layer of glue in to the holes for the allen screws.



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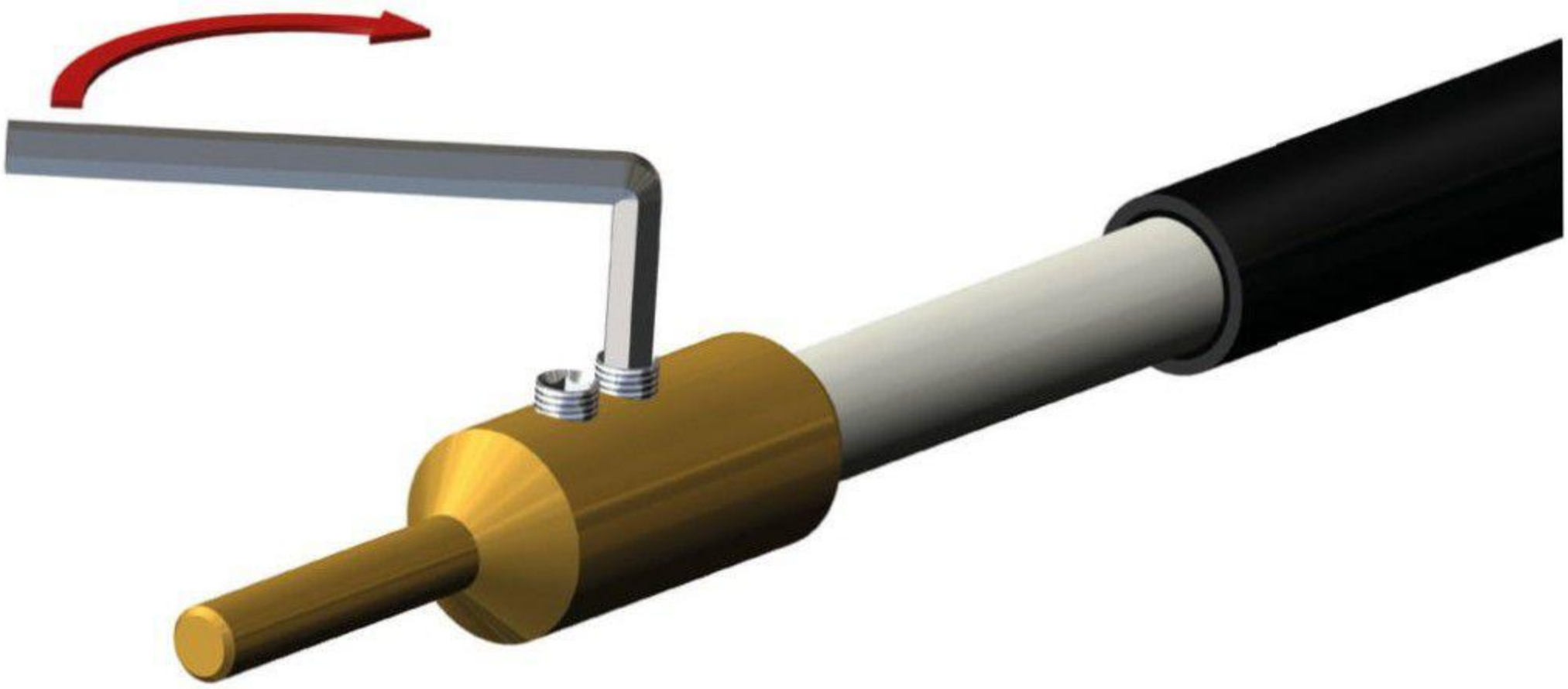
5. Tighten the screws with an Allen wrench.



6. Heat shrinkable tube push onto the cable end to obscure the screw. Then, using a hot air blower or a propane-butane burner shrink the tube.

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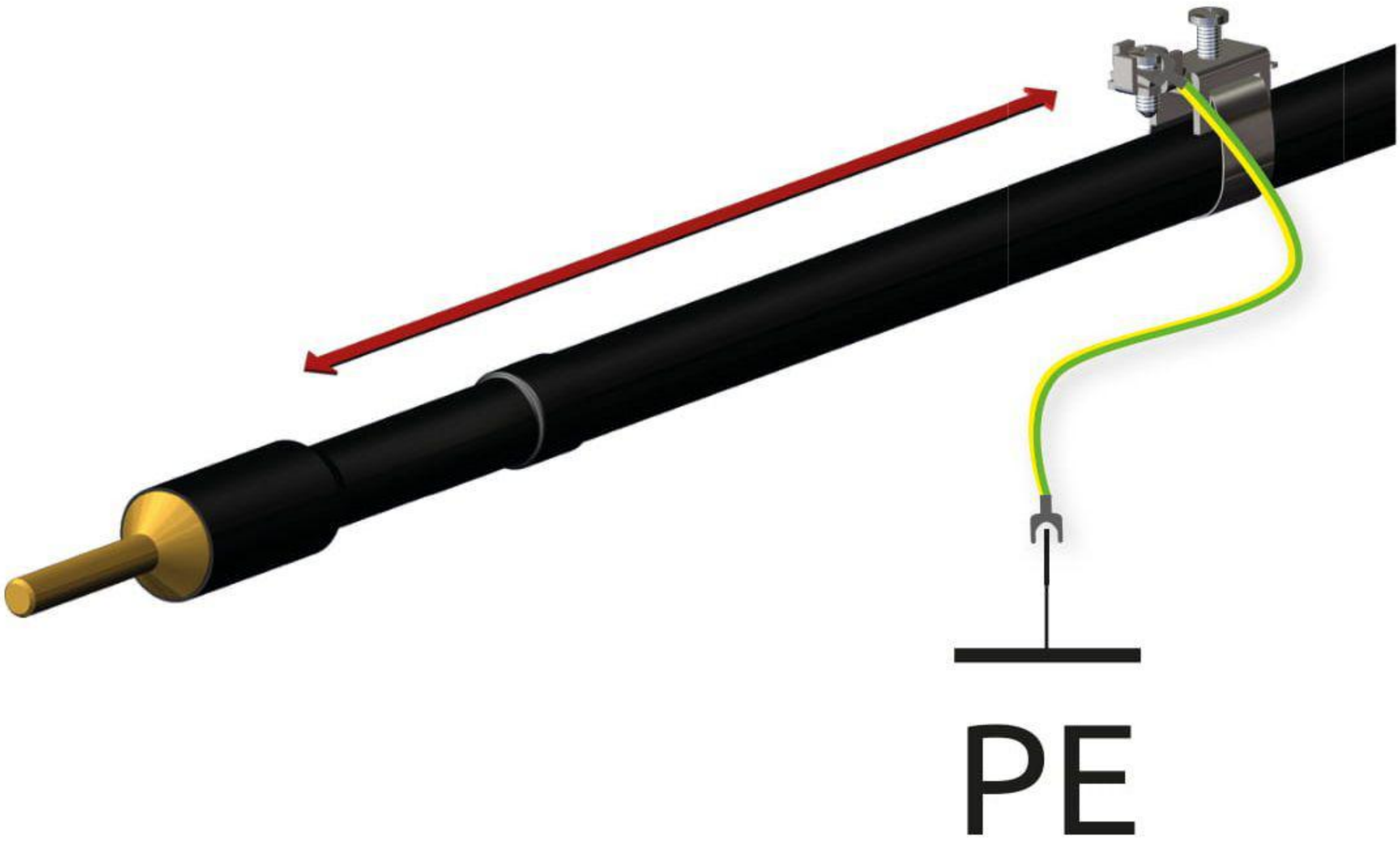
7. Properly shrunk tube should be smooth, without any defects. After shrinking leave the insulated element to cool completely.

8. You should use a grounding strap No .: 96440101 (64.1 / E) at a distance of 1.5m from every end of the high-voltage cable and attach it to the equipotential bonding rail.



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ELKO-BIS company offers a wide range of connectors and holders for high-voltage insulated cable. They allow cable management on all surfaces and structures encountered in the construction industry. In order to determine the relevant items for your investment please contact our representatives. For more information on www. http://elkobis.com.pl/contact/