

Watch the installation video



Type A150, A210, A280, A310, A370, A470 for phase terminals

Prismian Group



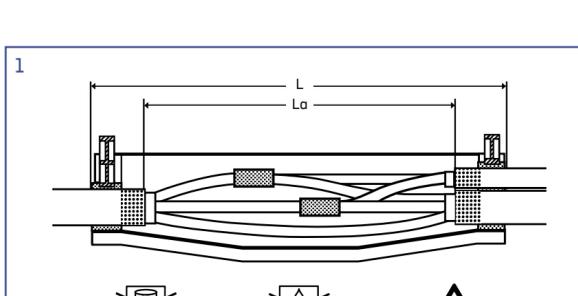
Type A150, A210, A280, A310, A370, O for phase terminals

These types of BARNICOL casting sleeves are designed for connecting or branching cables with plastic, rubber or paper insulation. They are also useful for repairing damaged cables. BARNICOL is suitable for power cables in a voltage range up to 3.6/6 kV and for telecom cables. The BARNICOL system is only suitable for horizontal mounting.

Preparations for the application of the sleeve

The cable and the socket should be clean, dry, and grease-free. During casting and curing is BARNICOL resin sensitive to moisture (foaming). The presence of water (e.g. in the cable) and wet sand etc. in the resin must be prevented.

After the resin is cured BARNICOL resin completely insensitive to moisture. To find the right casting sleeve, you can use the Barnicol cable connector on www.draka.nl

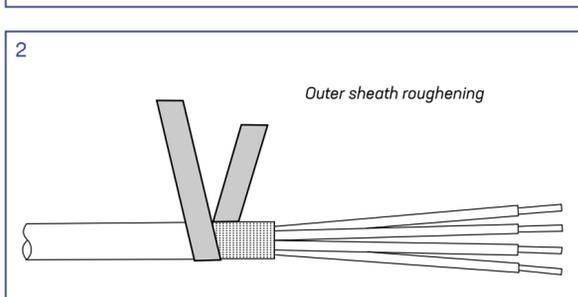


Cutting the cables

Cut the cables as indicated in fig. 1, over the length indicated in the table "Dimensions in mm". Remove as well any reinforcements, such that still a good electric connection can be made. Leave 1cm of the inner sheath on both sides. Cleaning cores thoroughly by degreasing (e.g. with petrol) and then dry well.

Making the electrical connection

In the case of braided or reinforced cables, connect the ground screen. Clean the first 3 cm of the outer sheath well and roughen the surface with the attached sanding linen as indicated in fig. 2.



Cast sleeve	L	LA
A150	175	90
A210	238	150
A280	308	220
A310	342	250
A370	402	310
A470	540	410

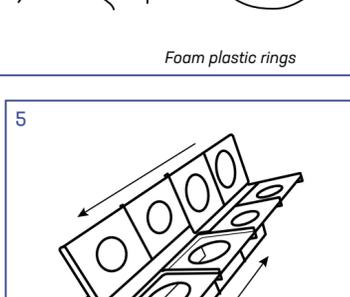
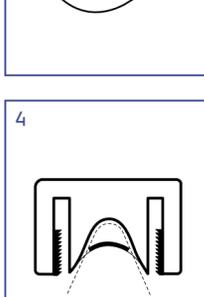
L = Length cast sleeve
La = Cutting length cables



Applying the cast sleeve

Fold the foam rings around the cables, as shown in fig. 3. The small hole should always be at the top. Apply the sleeve according to the drawing on the front of this instruction manual.

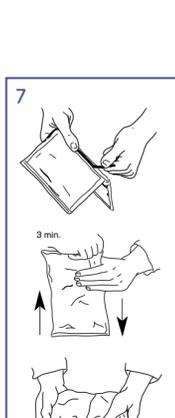
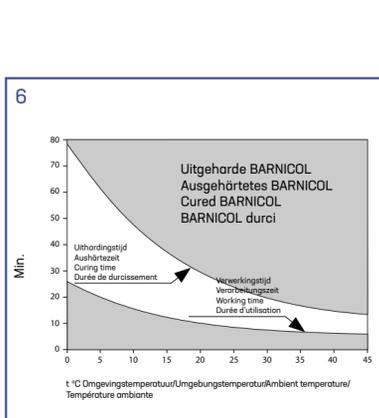
The sleeve can be slightly bent open without risk of damage to the ends. Make sure that the outer sheaths stick at least 3 cm into the casting sleeve. Press the closing bulkheads firmly into place.



In the case of branches, first cut out the slot for the branch cable in the relevant bulkhead (see fig. 4).

Check the distance between the clamps and between the clamps and the cast sleeve. When there is insufficient distance (standard is 5 mm), you can use the supplied partitions (see fig. 5).

For power cables for system voltages up to 600/1000 V, these distances shall be at least 5 mm; for 1,8/3 kV at least 15 mm; for 3,6/6kV at least 25 mm.



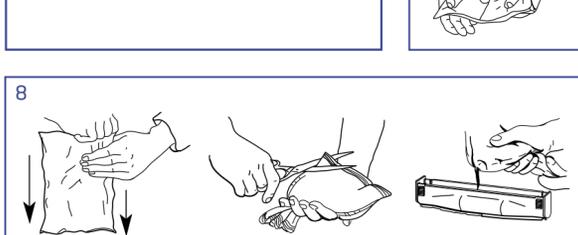
Mixing and pouring of the BARNICOL cast resin

Cast resin in 2 compartment-mixing bag. Construct the paper packaging carefully. Open and remove the mixing bag from the package.

Remove the separator without damaging the mixing bag so that the two components (resin and hardener) can be mixed. Mixing is best at room temperature (approx. 20 °C); At lower temperatures, the resin becomes stiffer. Curing can therefore take a little longer (see fig. 6).

Mix both components for at least 3 minutes, carefully knead the mixing bag in all directions (see fig. 7). Make sure you always wear gloves when you are going to pour the resin. Hold the mixing bag with the full side down and cut off a top at the top, after which the resin can be poured into the sleeve. Keep in mind that the resin is fairly liquid. The supplied amount of cast resin is sufficient for the type of sleeve.

Press and wring the mixed resin to one side of the mixing bag (see fig. 8).



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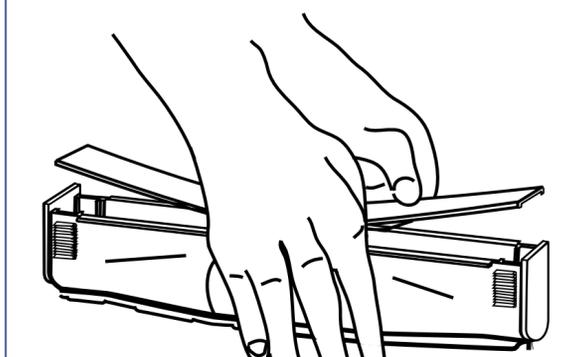
Sealing the cast sleeve

Close the cast resin joint with the lid and press it first in the middle then at the ends firmly (see fig. 9).

Working Safely

When cured, BARNICOL is harmless and not chemical waste. Some people may be hypersensitive to liquid cast resin. To prevent accidents, take the following precautions:

- Ensure there is good ventilation when working in an enclosed space.
- Keep face away from the cast resin during curing.
- When processing cast resin, use the provided plastic gloves.
- If the skin comes into contact with the resin, wash off thoroughly



Surface area (mm ²)	For XMvK, Vult of Hult cable					For Vulto, Vulta, Hulto, Hulta or VO-XMvKas cable				
	Cores					Cores				
1,5	A150	A150	A150	A150	A150	A150	A150	A150	A150	A150
2,5	A150	A150	A150	A150	A150	A150	A150	A150	A150	A150
4	A150	A150	A150	A150	A210	A150	A150	A150	A210	A280
6	A150	A150	A150	A150	A280	A150	A150	A210	A280	A280
10	A150	A210	A210	A210	A280	A210	A210	A280	A280	A280
16	A150	A210	A280	A280	A280	A280	A280	A280	A280	A310
25	A210	A280	A280	A280	A310	A280	A280	A310	A310	A310
35	A210	A280	A310	A310	A310	A280	A310	A310		
50	A210	A280	A310	A310	A370	A310	A310	A370		
70	A210	A310	A370	A370	A370	A310	A370	A370		
95	A210	A370	A370	A370	A370	A370	A370	A370		
120	A210	A370	A370	A370	A470	A370	A370	A470		
150	A280	A370	A470	A470	A470	A370	A470	A470		
185	A280	A470				A470	A470			
240	A280	A470				A470				
300	A280	A470				A470				