



Heat shrinkable low voltage breakouts



Application

Heat shrinkable low voltage breakouts type HCZ5 provide strong and permanent seal to the crutch of 5-core AYKY, or CYKY cables up to 0,6/1 kV.

Marking

| | |
|----------------|---|
| HCZ5 - 4/25 | a breakout for XLPE, PVC cables from 5x4 mm ² to 5x25 mm ² |
| HCZ5 - 25/50 | a breakout for XLPE, PVC cables from 5x25 mm ² to 5x50 mm ² |
| HCZ5 - 70/150 | a breakout for XLPE, PVC cables from 5x70 mm ² to 5x150 mm ² |
| HCZ5 - 185/240 | a breakout for XLPE, PVC cables from 5x185 mm ² to 5x240 mm ² |

Specifications

Breakouts are manufactured from high quality cross linked polyolefin material that offer an exceptional insulation and long-term service reliability. They are internally coated with hot melt adhesive and when installed provide 100% protection from ingress of water, moisture and air.

Material properties are listed in the Tab.1 and dimensions of breakouts as supplied and after free recovery are displayed in the Tab. 2 and Fig. 1 and 2.

Fig. 1 Expanded as supplied

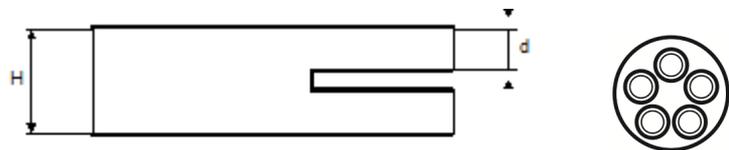
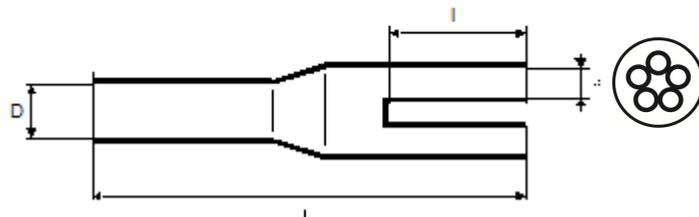


Fig. 2 After free recovery




Tab. 1 Material features (cross-linked PE)

| | | |
|---|---------|------------------|
| Tensile strength | [MPa] | min. 13 |
| Elongation at break | [%] | min. 350 |
| Shrink temperature | [°C] | 150 - 200 |
| Operating temperature - long-term - short-term | [°C] | 100 150 |
| Volume resistivity | [Ω.m] | 10 ¹³ |
| Dielectric strength | [kV/mm] | 12 |

Tab. 2 Dimensions of breakouts according to Fig. 1 and 2

| Breakout | Expanded as supplied | | After free recovery | | | |
|----------------|----------------------|--------|---------------------|---------------------|--------------|--------------|
| | H [mm] | D [mm] | d [mm] | d ₁ [mm] | L ± 10% [mm] | l ± 10% [mm] |
| HCZ5 - 4/25 | 32 | 8 | 9 | 3 | 110 | 28 |
| HCZ5 - 25/50 | 57 | 17 | 15 | 4 | 110 | 33 |
| HCZ5 - 70/150 | 80 | 32 | 26 | 8 | 190 | 65 |
| HCZ5 - 185/240 | 100 | 33 | 32 | 8 | 190 | 65 |

Installation principles

Clean cable surface and roughen it with abrasive paper at its ends gently. Then pre-heat shortly by sharp flame in order not to damage insulation and put on a breakout. A soft flame torch or hot air gun may be used to shrink the breakout, whereas processing from crutch to edge parts. On application of heat the adhesive melts and the part shrinks forming a perfect seal.

Heat shrinkable low voltage breakouts type HCZ5 are supplied in cardboard boxes (more pieces).