

5. CABLE SEALING BOXES

5.1 Plastic cable glands

According to standard IEC 60439 plastic boxes are not allowed to be interconnected by conductive parts, in order to limit a possible fault voltage to the relevant box. Nor is it permitted to feed any conductive parts from the inside to the outside. This means that metal parts which have to be fed through the box, must be insulated on the inside or outside. That's why the Halyester product range includes plastic cable glands for cable diameters from 3.5 to 40 mm. Listed in the table below are the cable glands, associated cable diameters and holes to be drilled.

The lock nut of a cable gland has the largest diameter. This diameter should be taken into account when fitting a cable gland in the casing or end cover.

Table 5.1: Overview of cable glands

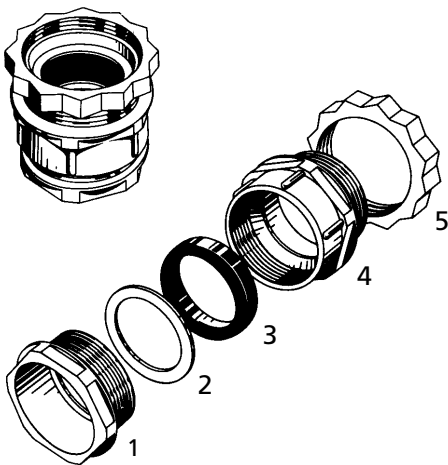


Figure 5.1: Exploded view of cable gland

- 1 cable gland follower
- 2 thrust washer
- 3 cable gland ring
- 4 cable gland housing
- 5 lock nuts

size	cable diameter (mm)	drill (mm)	type
Pg 7	3,5 - 6	13	E 407
Pg 9	6 - 8	16	E 409
Pg 11	8 - 10	19	E 411
Pg 13,5	10 - 12	21	E 413
Pg 16	12 - 14	23	E 416
Pg 21	14 - 18	29	E 421
Pg 29	18 - 24	38	E 429
Pg 36	24 - 30	48	E 436
Pg 42	30 - 35	55	E 442
Pg 48	35 - 40	60	E 448

5.2 Cable sealing box

Type E 403 and E 404 cable sealing boxes

Cable sealing boxes can be fitted to boxes with openings 3 and 4.

They are available in "blank" configuration and with 60mm or 80mm dia. holes.

These holes are provided with rubber grommets from which the diameter of the cable(s) to be fed through can be cut out. For this purpose, various nicks are made in the grommets, in line with the most prevalent cable diameters. Before the cable sealing box with the accompanying fastener material is fitted to the casing, the front post must be cut out of the casing which has markings for that purpose. The cable sealing boxes are provided with sealing and locking screws.

Mounting

- saw the front post from the casing at the markings (see chapter 3)
- cut the rubber grommet to the correct size
- fit the grommet around the cable
- slide the bushing over the cable core and then connect the cores
- fit the cable sealing box to the casing, using four hexagon head bolts M6x8
- place the rubber grommet in the cable sealing box

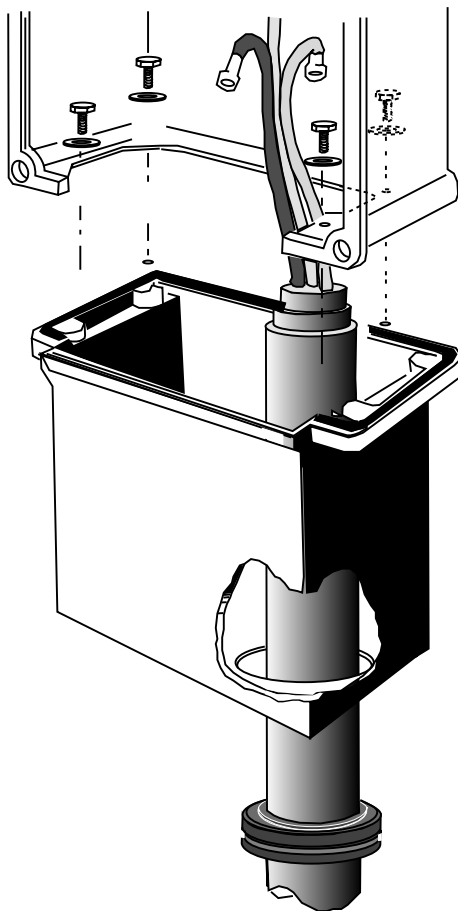


Figure 5.2: Mounting of cable sealing box

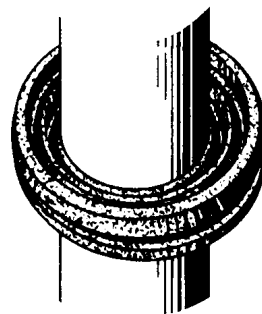


Figure 5.3: Rubber grommet

Table 5.2: Holes to be drilled in the cable sealing box for the grommet

max. cable diameter mm	drill mm	application	
60	75	E 403/160 E 403/260	E404/360
80	95		E 404/180 E 404/280

Dimensions

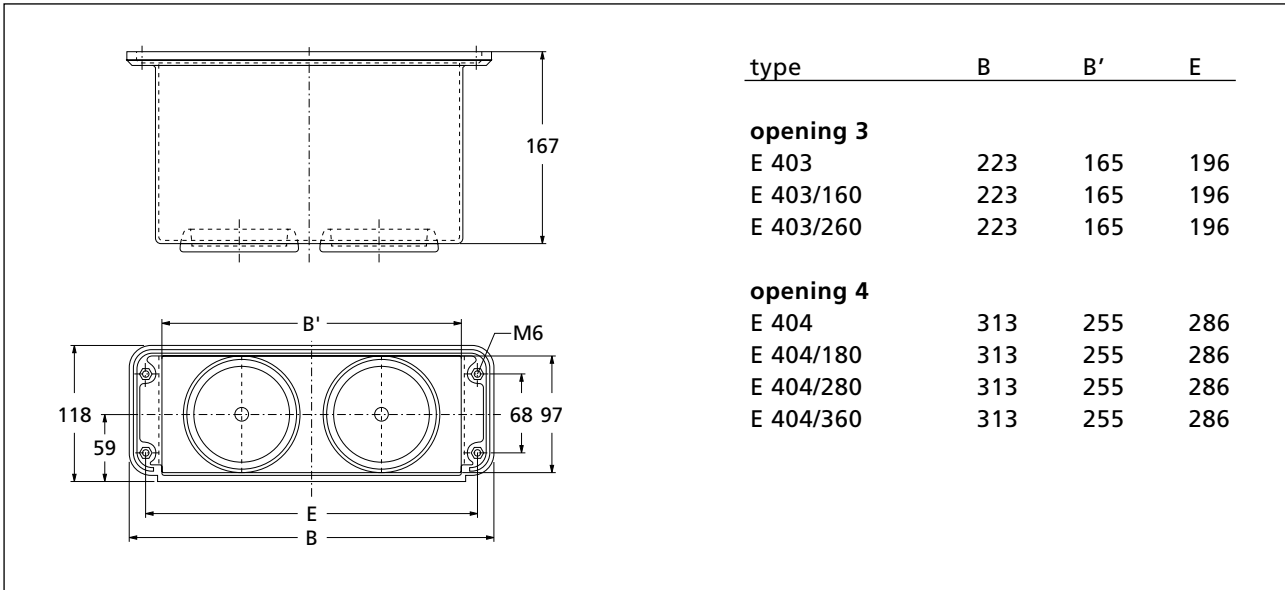


Figure 5.4: Cable sealing box dimensions

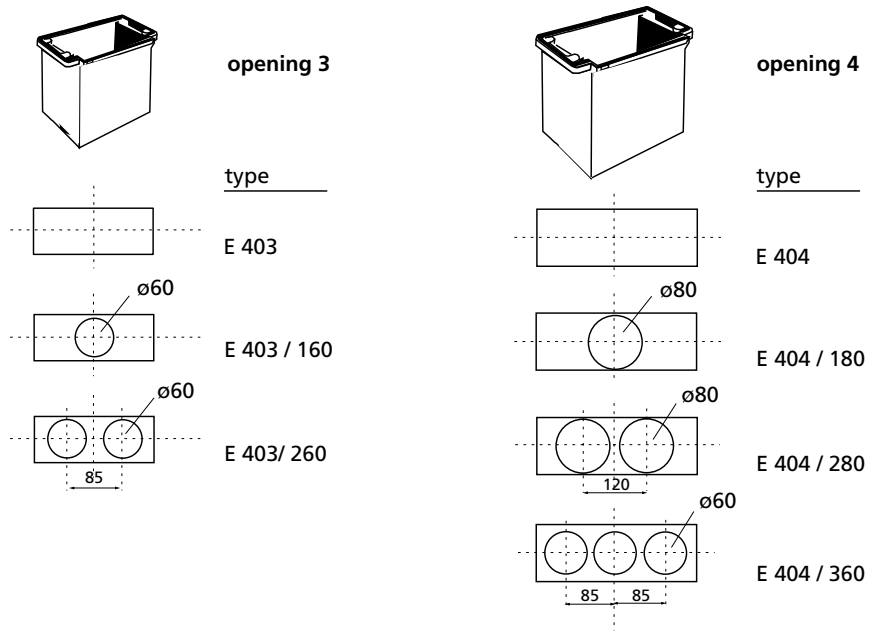


Figure 5.5: Cable sealing box configurations