



## Cable Distribution Cabinets (CDC)

Cable distribution cabinets according DIN EN 61439 part 5 and DIN 43629 are enclosures for outdoor installation to distribute electric energy in low voltage distribution network.

For that purpose they are generally equipped with LV HRC strip-fuseways mounted on a busbar system.

The housing offers multiple protection against influence of weather, contact and unauthorised access. Standardised models ensure fast replaceability.

Possible applications exist as enclosures for traffic or pump control devices, street lighting, control devices or solar engineering.



## Cable Distribution Cabinets series KVS



### Series KVS

#### Product definition

DIN EN 61439-1, DIN EN 61439-2  
DIN EN 61439-5 and DIN 43629

#### Range

- 850mm high cabinets
- four widths from 4 way to 10 way
- available in kitset or assembled
- available with busbars up to 1000A

#### Construction

- constructed from glass-fibre reinforced polyester to DIN14598
- cabinet and base are separate items

#### Features

- IP44 protection
- three point door locking
- ribbed surface to resist poster adhesion
- door opening 180°
- grid for additional ground holding available

# Cable Distribution Cabinets (CDC)

## Cable Distribution Cabinets series KVS 850mm height

Cabinet supplied assembled

|  |  | No of ways | Dimensions mm<br>H x W x D | Part No.     |
|--|--|------------|----------------------------|--------------|
|  |  | 4 way      | 850 x 462 x 322            | KVS00/10/PNT |
|  |  | 5 way      | 850 x 596 x 322            | KVS0/10/PNT  |
|  |  | 7 way      | 850 x 791 x 322            | KVS1/10/PNT  |
|  |  | 10 way     | 850 x 1121 x 322           | KVS2/10/PNT  |

Cabinet supplied assembled with 700A busbars (keylock additional)

|  |  | No of ways | Dimensions mm<br>H x W x D | Part No.    |
|--|--|------------|----------------------------|-------------|
|  |  | 4 way      | 850 x 462 x 322            | KVS00/10SAP |
|  |  | 5 way      | 850 x 596 x 322            | KVS0/10SAP  |
|  |  | 7 way      | 850 x 791 x 322            | KVS1/10SAP  |
|  |  | 10 way     | 850 x 1121 x 322           | KVS2/10SAP  |

## Cable Distribution Cabinets series KVSL (LABEO)



### Replacement for NKVS series

#### Product definition

DIN EN 61439-1, DIN EN 61439-2  
DIN EN 61439-5 and DIN 43629

#### Range

- 1100mm high cabinets
- three widths from 5 way to 10 way

#### Construction

- constructed from glass-fibre reinforced polyester to DIN14598
- cabinet and base are separate items

#### Features

- IP44 protection
- three point door locking
- door opening 180°
- grid for additional ground holding available

# Cable Distribution Cabinets (CDC)

## Cable Distribution Cabinets series KVSL (LABEO) 1100mm height

Cabinet supplied assembled

|  |  | No of ways | Dimensions mm<br>H x W x D | Part No.     |
|--|--|------------|----------------------------|--------------|
|  |  | 5 way      | 1100 x 605 x 320           | KVSL0-31/PNT |
|  |  | 7 way      | 1100 x 800 x 320           | KVSL1-31/PNT |
|  |  | 10 way     | 1100 x 1130 x 320          | KVSL2-31/PNT |

Cabinet supplied assembled with 700A busbars (keylock additional)

|  |  | No of ways | Dimensions mm<br>H x W x D | Part No.  |
|--|--|------------|----------------------------|-----------|
|  |  | 5 way      | 1100 x 605 x 320           | KVSL0/SAP |
|  |  | 7 way      | 1100 x 800 x 320           | KVSL1/SAP |
|  |  | 10 way     | 1100 x 1130 x 320          | KVSL2/SAP |

### KVSL accessories

|                    |              |                         |
|--------------------|--------------|-------------------------|
| Oval head screw    | All cabinets | KVSL Dome screw         |
| Counter sunk screw |              | KVSL Counter sunk screw |
| Door stay          |              | KVSL Door stay          |





FP0

## Cable Distribution Cabinets - bases and accessories

Bases for KVS and KVSL cabinets  
NEW KVSL cabinets fit existing FP base

| For cabinets | Dimensions mm<br>H x W x D | Part No.    |
|--------------|----------------------------|-------------|
| KVS00        | 902 x 460 x 310            | FP00-10/PNT |
| KVS0 & KVSL0 | 902 x 585 x 310            | FP0-10/PNT  |
| KVS1 & KVSL1 | 902 x 780 x 310            | FP1-10/PNT  |
| KVS2 & KVSL2 | 902 x 1110 x 310           | FP2-10/PNT  |



FP1 with GBPLO

Bases for KVS cabinets assembled with 700A E/N bar

| For cabinets | Dimensions mm<br>H x W x D | Part No. |
|--------------|----------------------------|----------|
| KVS00        | 902 x 460 x 310            | FP00-SAN |
| KVS0 & KVSL0 | 902 x 585 x 310            | FP0-SAN  |
| KVS1 & KVSL1 | 902 x 780 x 310            | FP1-SAN  |
| KVS2 & KVSL2 | 902 x 1110 x 310           | FP2-SAN  |



FP1 with FPH

Pedestal elevation for flood areas

| Description     | Size | Part No.       |
|-----------------|------|----------------|
| 511mm elevation | 00   | FPH00-10/KS/BV |
|                 | 0    | FPH0-10/KS/BV  |
|                 | 1    | FPH1-10/KS/BV  |
|                 | 2    | FPH2-10/KS/BV  |

## Accessories

|                                                                                                                      | Part No. |
|----------------------------------------------------------------------------------------------------------------------|----------|
| Cylinder key lock for KVS and KVSL cabinets<br>Additional charge for lock keyed to customers requirement (net price) | CKL-UL   |
| Grid baseplate to increase groundholding for 00/0/1                                                                  | GBPLO    |
| Padlockable handle                                                                                                   | SV-PL    |

# Cable Distribution Cabinets (CDC)

## Cable Distribution Cabinets series EH

### Empty cabinets

| Model  | Dimensions mm<br>H x W x D |                  | Part No. |
|--------|----------------------------|------------------|----------|
| EHFB   |                            | 1349 x 425 x 240 | EHFB     |
| EHFERB |                            | 1622 x 425 x 240 | EHFERB   |

### Fitted cabinets (keys invoiced separately, but included in price)

| Model  | Fitted with                                                              | Dimensions mm<br>H x W x D | Part No.  |
|--------|--------------------------------------------------------------------------|----------------------------|-----------|
| EHFB   | - formica panel 400 x 450mm<br>- key lock additional                     | 1349 x 425 x 240           | EHFB/PNL  |
| EHFERB | - 700A phase bars<br>- single earth/neutral bar<br>- key lock additional | 1622 x 425 x 240           | EHFERB/35 |

### Accessories

|                                                                                                            | Part No.           |
|------------------------------------------------------------------------------------------------------------|--------------------|
| Cylinder key lock for EH cabinets<br>Additional charge for lock keyed to customers requirement (net price) | CKL-UL             |
| Threaded insert M6                                                                                         | SOC-IT6            |
| 500ml paint kit - any colour                                                                               | JMTE/PAINT/KIT500  |
| 1000ml paint kit - any colour                                                                              | JMTE/PAINT/KIT1000 |

Note: Paint kits include - 2k colour, hardener, thinner, mixing bowl, roller with sleeve & data sheet.



EHFB



EHFERB



EHFERB/35 with  
disconnects fitted

## Distribution, instrument cabinets and service entrance pillars

### For decrease condensation in distribution and instrument cabinets

Due to weather conditions, condense water develops in cable distribution cabinets and precipitates on the inner surfaces. This humidity may lead to the corrosion of the metal parts and to the formation of creepage currents.

Measures for decrease excessive condensation:

#### 1. Ventilation of the cabinet through existing ventilation slots in accordance with IP44

The existing ventilation slots in the lower area of the door and the rear wall as well as in the upper area between the roof, door and rear wall are able to bring about dehumidification of the interior of the cabinet with the help of the heat generated by the given power loss of the fuse elements. The basic requirement for this is that the size of the ventilation slots is proportional to the width of the cabinet. This is the case with the construction of

JEAN MÜLLER distribution and equipment cabinets, as there are ventilation slots at the bottom and top of the door and rear wall.

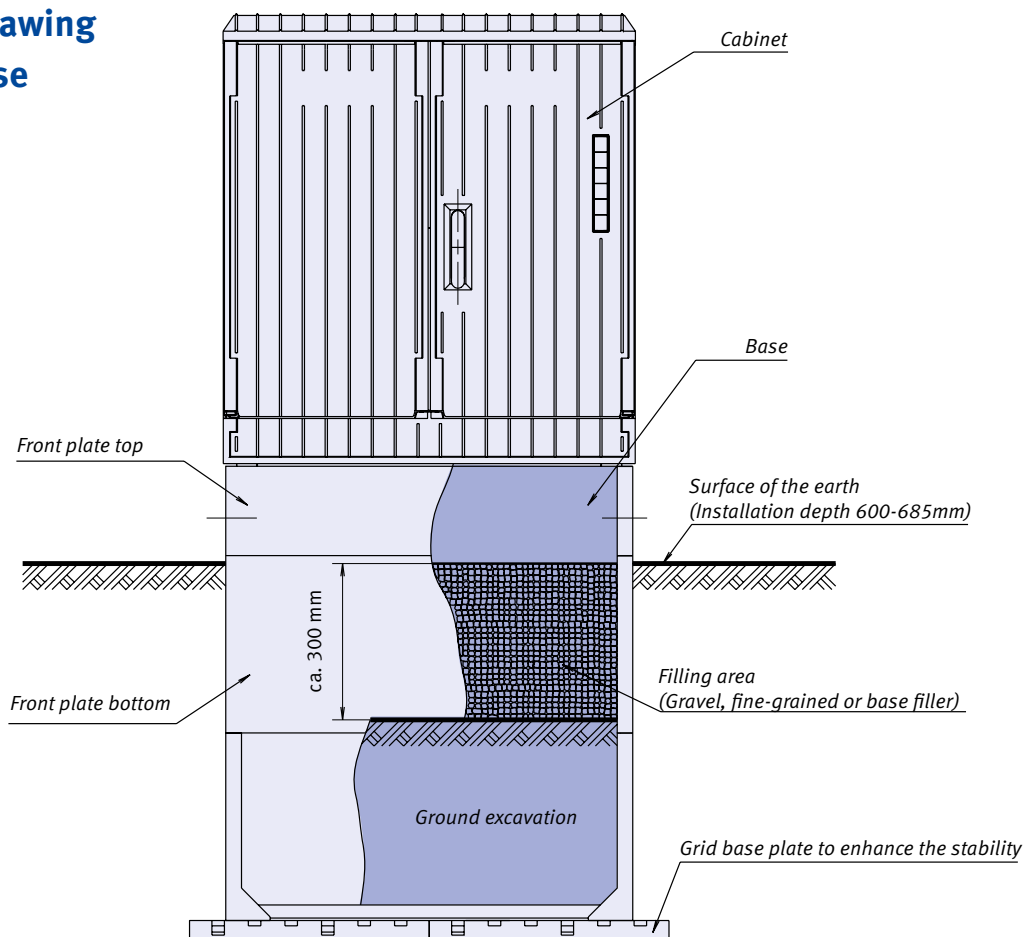
#### 2. Protection against ground moisture

An effective dehumidification of the cabinet interior can only be achieved if the latter is protected against rising ground moisture. Such a protection can be implemented by filling in fine-grained gravel or base filler up to the ground surface level.

#### 3. Application

The foundation is filled with excavated soil up to a height of approx. 300 mm below the ground surface level. A layer of gravel or base filler of approx. 300 mm height is filled above this. This gravel layer prevents the rising of moisture, this has been shown in practice.

### Cutaway drawing of filled base



## Material

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Enclosures and bases consist of hot-molded glass-fibre reinforced polyester (SMC). SMC (sheet moulding compound) refers to mat-shaped thermosetted material, moulded under compression and temperature.

Exposed glassfibres are of no danger, in case of high sensitivity skin contact may result in redness and irritations. There is no respirability conditional to fibre length and the attribute of not breaking across the fibre. Therefore carcinogenic hazard is not present.

Thermosetted materials are characterized by an irreversible chemical reaction, as a result a deformation induced by temperature is excluded.

Characteristics of material:

- high degree of flame-resistance
- insulating
- acid resistant
- stable in dimensions
- weatherproof
- long operating life

Main constituents are polyester resin, filler materials (chalkstone) and glassfibres, added with flame retardants and pigmentation substances.

The enclosures encounter -due to outdoor exposition- natural UV radiance, rain and dew. As a result, the resin matrix superposing the glassfibres diminishes. In the lapse of time the surface weathers, leading to an exposition of glassfibres. Mechanical stability of the cabinets remains unaffected.

## UV protection of cabinets made of glass-fibre-reinforced polyester

In order to optimize the UV protection of cable distribution cabinets, a light-impermeable lacquer is suitable. In addition to the standard color RAL7035, further colors from the RAL palette are available.

### 1. Surface coating is to ensure the following:

- a) Prevention of surface erosion of the cabinet as a consequence of UV radiation.
- b) UV protection as sub a) with an additional anti-adhesive for spray varnishes (graffiti).

### 2. Potential measures for new cabinets:

- a) Surface coating with a two-component acrylic lacquer: This surface coating effectively prevents the yellowing and subsequent erosion of the glass-fibre-reinforced polyester resin. Depending on the site, surfaces with a polyacrylic coating are protected against UV radiation for a period of 15 to 20 years.
- b) Surface coating with a two-component acrylic lacquer which comprises an additional antiadhesive for spray varnishes (anti-graffiti coating). This provides the same UV protection as sub a) but with an option to remove spray varnishes with a cleaning paste.

### 3. Potential measures for secondary treatment:

- a) Coating with a two-component acrylic lacquer. This provides effective protection against UV radiation, but has to be repeated after a short period of time (8 – 10 years) because of the low durability of the varnish.
- b) Surface coating with a two-component acrylic lacquer which comprises an anti-adhesive for spray varnishes (anti-graffiti coating). This provides the same protection as sub 2b).

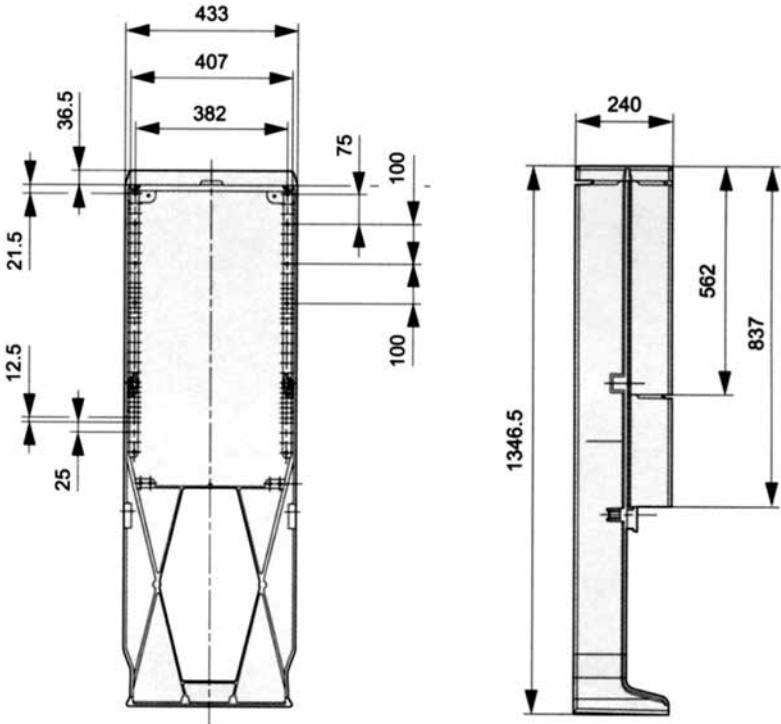
### 4. Required surface preparation for secondary treatment:

Degreasing by washing with a detergent dissolved in water. Subsequently, removal of dirt and loose material particles with a cleaning brush or fleece. To ensure good adhesive properties of the surface coating, the lacquer must be pigmented (coloured), generally light grey (RAL7035), as the polyester used.

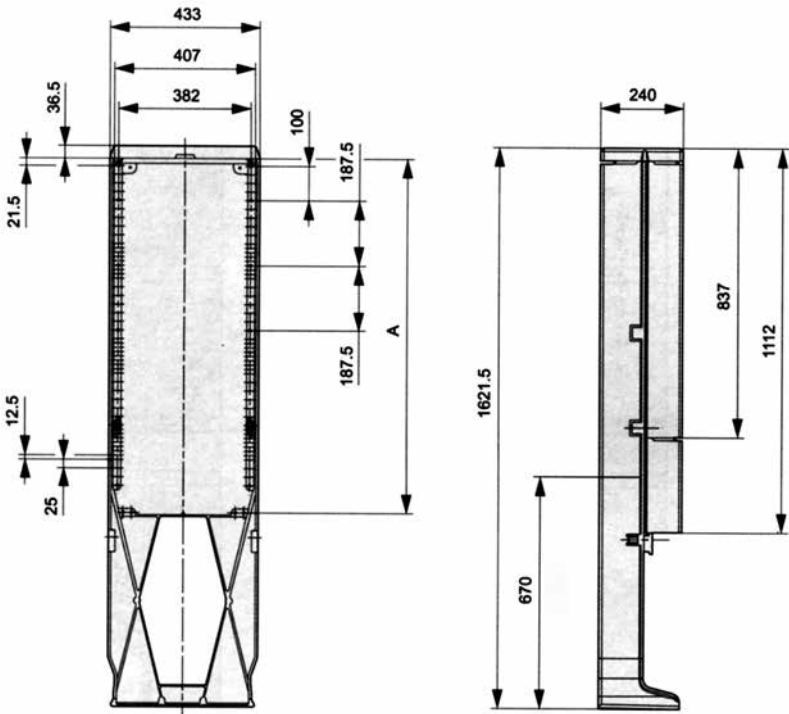
Transparent lacquers are not capable of filtering UV radiation. The surface below the varnish will thus erode, which will deteriorate the adhesive properties.

# Cable Distribution Cabinets (CDC) - Dimensions

EHFB

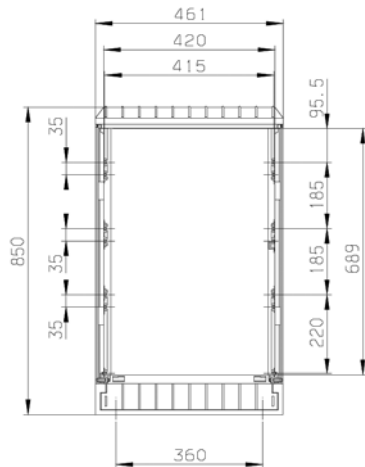


EHFERB

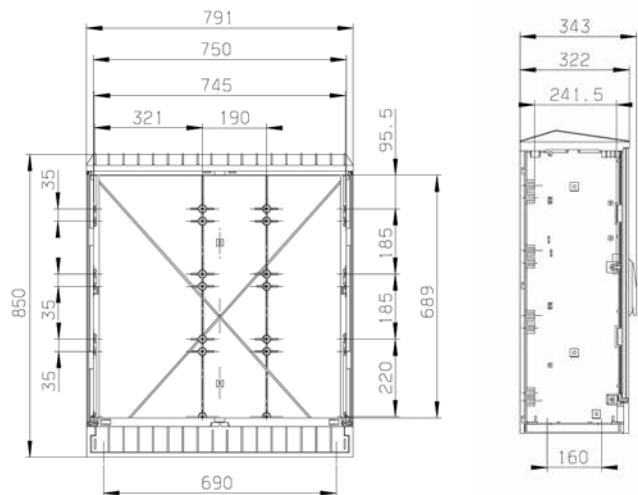


EHFERB

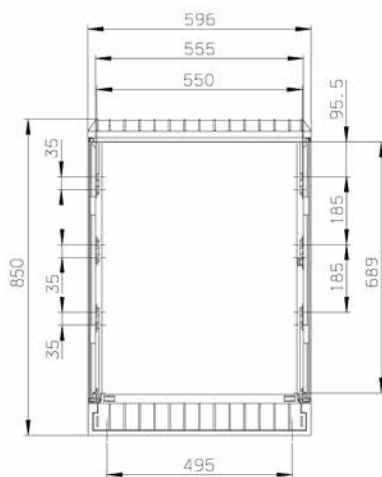
KVS00/10



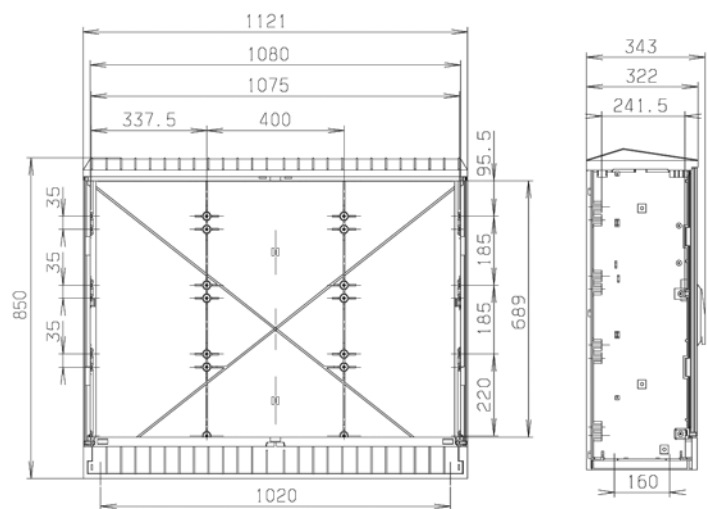
KVS1/10



KVS0/10

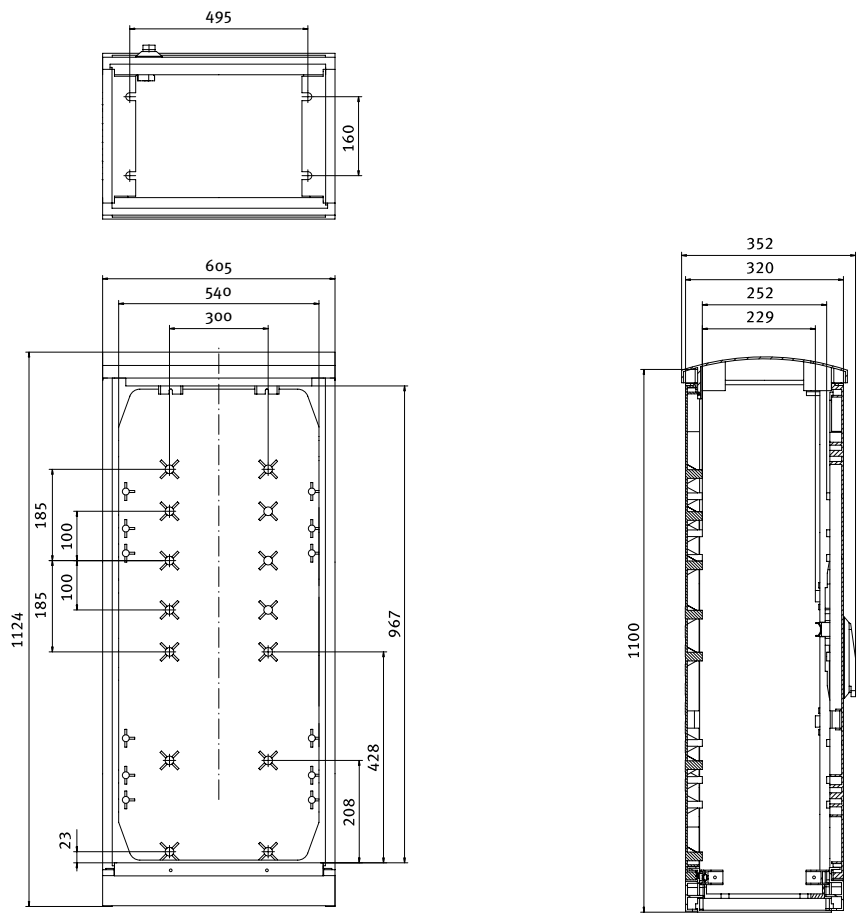


KVS2/10

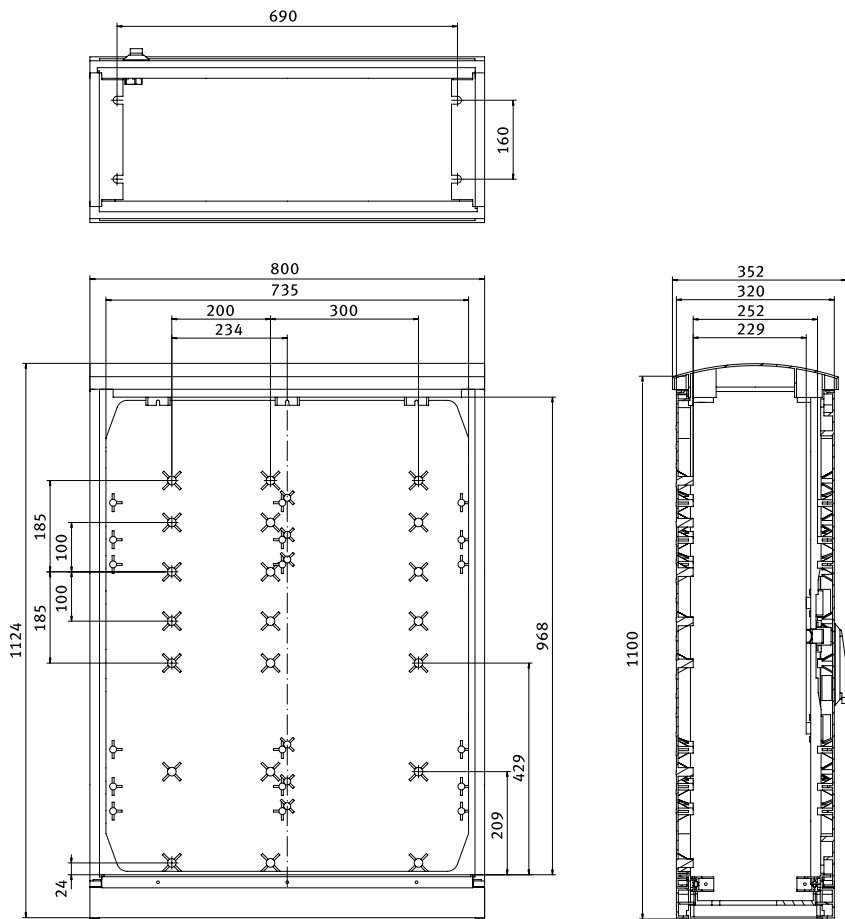


# Cable Distribution Cabinets (CDC) - Dimensions

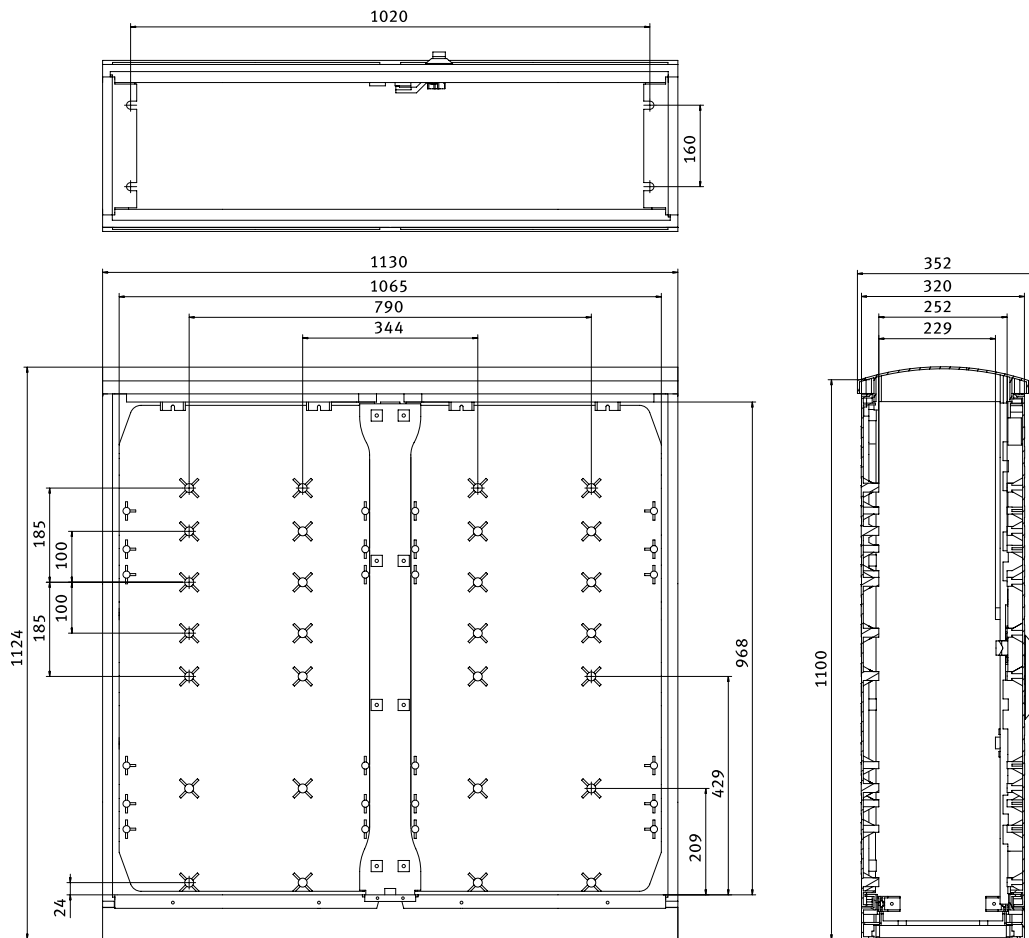
KVSL0



KVSL1

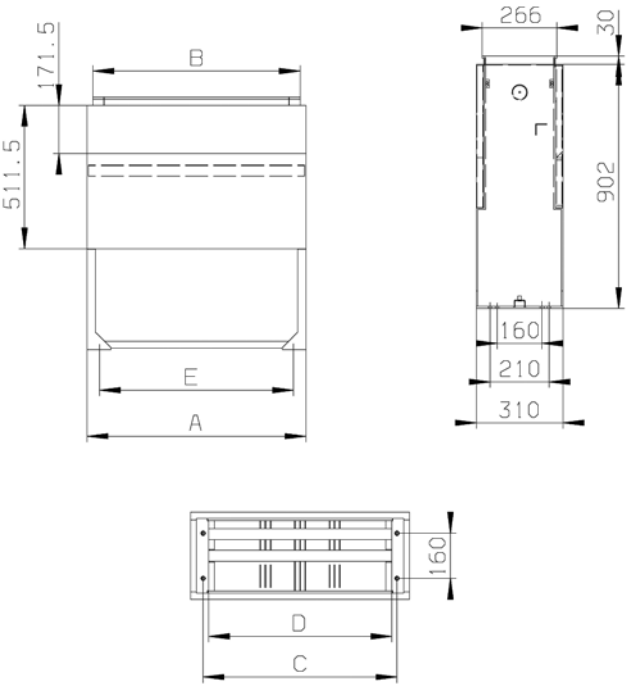


KVSL2



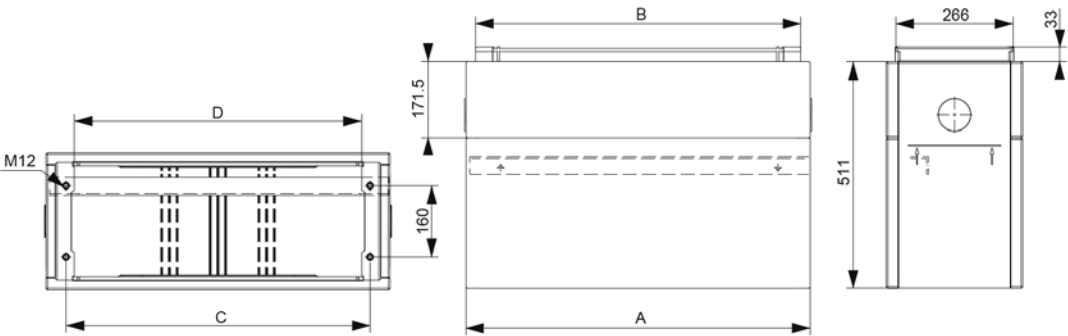
# Cable Distribution Cabinets (CDC) - Dimensions

FP00  
FP0  
FP1  
FP2



| Size | A    | B    | C    | D   | E    |
|------|------|------|------|-----|------|
| FP00 | 450  | 408  | 360  | 322 | 360  |
| FP0  | 585  | 543  | 495  | 457 | 495  |
| FP1  | 780  | 738  | 690  | 652 | 690  |
| FP2  | 1110 | 1068 | 1020 | 982 | 1020 |

FPH00  
FPH0  
FPH1  
FPH2



| Size  | A    | B    | C    | D   |
|-------|------|------|------|-----|
| FPH00 | 450  | 408  | 360  | 322 |
| FPH0  | 585  | 543  | 495  | 457 |
| FPH1  | 780  | 738  | 690  | 652 |
| FPH2  | 1110 | 1068 | 1020 | 982 |