

HIGH VOLTAGE LINK BOX (HVLB-SICO) FOR CABLE SHEATH BONDING WITH SINGLE CORE CABLE

KEY FEATURES

- Impulse withstand:
65 kV
- Short circuit current:
63 kA/1 s
- Internal power arc:
25 kA/0,1 s
- Tight against water and
dust according to
protection class IP68
- Gland sealing with WCSM
heat shrinking tube
- Sequential serial number
for each link box

TE Connectivity's (TE) high voltage link box HVLB provides a sealed and dry environment for high voltage cable sheath earthing connection. It reduces voltages and circulating currents.

TE offers three types of link boxes with different number of entries to bond the cable sheath to the ground: HVLB-SICO-**SLV**, HVLB-SICO-**GND** and HVLB-SICO-**CRO**.

Within the HVLB-SICO-SVL link box, the cable sheath is earthed via a Sheath Voltage Limiter (SVL). The HVLB-SICO-GND link box is used to earth the cable sheath direct to the ground without a SVL. Within the HVLB-SICO-CRO link box the cable sheaths are crossbonded.

To get an easy access to the cable sheath for inspections, TE developed a reliable gasket-lid-system, which is tighter against water and dust. The lid system is equipped with a proof device for padlocks to prevent unauthorized access.

A well-arranged configuration ensures a higher reliability. Homogeneous distances between the electrical path, trustworthy electrical connections and a special developed short-circuit-yoke allow a better impulse-voltage and short-circuit withstand. For safety in an unexpected case, our box is tested to absorb the power of an internal arc with 25 kA for 0,1 sec.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

High Voltage Link Box (HVLB-SICO)



PRODUCT SELECTION - BASIC TYPES

| | # of cable entries | Size of the SVL | Housing earthing type | Cable port specification | Modification |
|--------------------------|--------------------|--|--------------------------------------|---|---|
| Basic description | | 1 kV: CPA-01-017 2 kV: CPA-02 3 kV: CPA-03-017 4 kV: CPA-04 5 kV: CPA-05 6 kV: CPA-06-017 7 kV: CPA-07 8 kV: CPA-08 | sep = separately col = collective | S1 = 0 - 95 mm ² S2 = 95 - 240 mm ² S3 = 240 - 400 mm ² C8 = 500 mm ² S = shear bolt C = crimp | M01 (standard) Mxx (customer specific) |

DIRECT GROUNDING

| | | | | | |
|---------------|----|-----|-----------|-------------------|-----------|
| HVLB-SICO-GND | 1E | ./. | sep / col | S1 / S2 / S3 / C8 | M01 / Mxx |
| HVLB-SICO-GND | 3E | ./. | sep / col | S1 / S2 / S3 / C8 | M01 / Mxx |
| HVLB-SICO-GND | 6E | ./. | sep / col | S1 / S2 / S3 / C8 | M01 / Mxx |

VIA SHEATH VOLTAGE LIMITER (SVL)

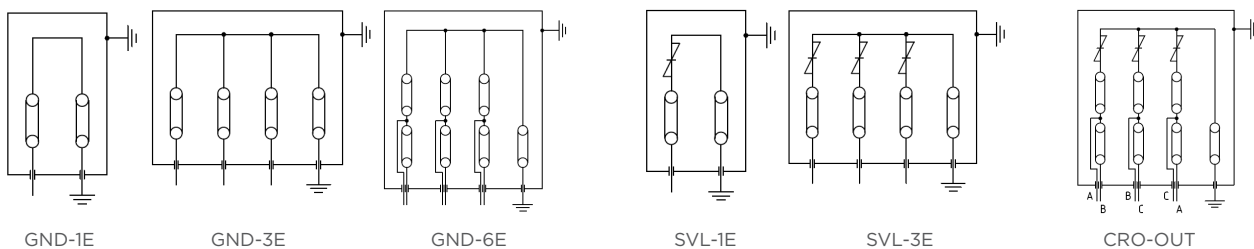
| | | | | | |
|---------------|----|----------------------------------|-----------|-------------------|-----------|
| HVLB-SICO-SVL | 1E | 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 kV | sep / col | S1 / S2 / S3 / C8 | M01 / Mxx |
| HVLB-SICO-SVL | 3E | 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 kV | sep / col | S1 / S2 / S3 / C8 | M01 / Mxx |

CROSS-BONDING

| | | | | | |
|---------------|-----|----------------------------------|-----------|-------------------|-----------|
| HVLB-SICO-CRO | OUT | 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 kV | sep / col | S1 / S2 / S3 / C8 | M01 / Mxx |
|---------------|-----|----------------------------------|-----------|-------------------|-----------|

CREATION OF PRODUCT DESCRIPTION SHOWN BY THE EXAMPLE OF HVLB-SICO-SVL-1E-6 KV-COL-S2-M01

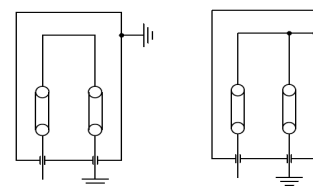
| | | | | | |
|---------------|----|------|-----|----|-----|
| HVLB-SICO-SVL | 1E | 6 kV | col | S2 | M01 |
|---------------|----|------|-----|----|-----|



TECHNICAL INFORMATION

| | |
|-------------------------|--|
| Material of the housing | SS304 / X5CrNi17-10 |
| Surface painting | RAL7035, thickness 0,08, fine structure outdoor |
| Optional | Offshore protection |
| Optional | Plexiglass cover (protection against accidental contact) |

Housing earthing type



Separately
(housing and busbar not connected)

Collective
(housing and busbar connected)

FOR MORE INFORMATION: TE Technical Support Centers

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