

PRODUCT DATA SHEET

LIGHTNING PROTECTION AND EARTHING SYSTEM COMPONENTS

Code: 62 01 005
ed.09/2024
Description: St/tZn clamp-fastener
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Application

Clamp for electrical connection – fastening of:

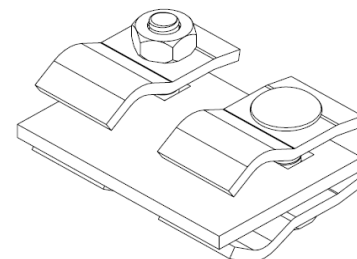
- “I” beam to round, stranded or tape conductor, used in air termination system, down conductor system, earthing system.
- reinforcement rebars to round or tape conductors, used in substation grounding.

Classification as per IEC EN 62561

- Heavy duty (H – 100 kA)
- General use
- Intended to withstand a static mechanical load
- Non-permanent connection

Classification as per IEEE 837:2014

- Electromagnetic force withstand:
Asymmetrical current 25 kA first peak, 10 kArms @ 240ms
- Fault current withstand: 1,5 kA @ 10s



Technical characteristics

Material	Hot dip galvanized steel (St/tZn)
Description	Is consisted of a plate with dimensions 80x60 mm and four “jaws” for the conductor / “I” beam clamping.
Bolts / nuts	M10x40 mm, hot dip galvanized steel carriage bolts M10 hot dip galvanized steel nuts

Installation instructions

Conductor's dimensions	Ø8–10 mm (50–70 mm ²)
Tape's dimensions	Up to 40 mm width & up to 5 mm thickness
Dimensions of “I” beam	Up to 18 mm thickness
Arrangement	Parallel connection (B2)
Installation	Above ground*, buried in ground*, embedded in concrete * for “I” beam connection only not for substation grounding.
Can be connected above ground with	Al, SSt (Stainless Steel), St, St/tZn
Can be connected buried in ground with	SSt (Stainless Steel), St/tZn
Can be connected in concrete with	Cu, Cu/eSn, SSt (Stainless Steel), St, St/eCu, St/tZn
Tightening torque	17 Nm (“I” beam connection) 30 Nm (when used for substation grounding)

Testing as per IEC EN 62561

The above exothermic powder has successfully passed the testing requirements of standards:

- IEC EN 62561-1 “Lightning protection system components (LPSC) – Part 1 : Requirements for connection components”. Test report No **31061** by accredited laboratory as per ISO 17025
- IEEE 837 “Permanent connections used in substation grounding”. Test report No **32186****
** performed only EMF, Current–Temperature cycling and Fault Current tests. Freeze – Thaw & Corrosion tests were not performed as, for use in substation grounding, the component is intended to be used completely embedded in concrete, so it will never be subjected to such strain.

Manufacturing Quality Control

Manufacturing quality control according standard ISO 9001

Country of Origin

Greece

Unit: piece / Package: 50 pieces

See following typical application of the clamp.

We reserve the right to introduce changes in the component due to technical evolution.

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