PRODUCT DATA SHEET

Earthing components

Substation earthing

Lightning protection systems

Connection components for LPS conductors

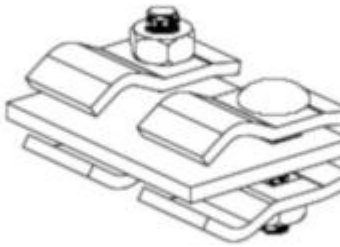
Code: 6201005-71

Description: St/tZn clamp-fastener, code 6201005-71

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

as per IEEE 837

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

Technical characteristics - Installation instructions

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.
Conductor's dimensions	Ø8–10 mm (50–70 mm2).

Tape's dimensions	20-40 mm & up to 5 mm thickness.
Dimensions of “I” beam	Up to 18 mm thickness.
Connection arrangements	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, Stainless Steel (SSt), St/tZn.
Can be connected buried in ground with	Stainless Steel (SSt), St/tZn.
Can be connected in concrete with	Cu, Cu/eSn, Stainless Steel (SSt), St/eCu, St/tZn.
Tightening torque	17 Nm.

Testing

The above component 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.

ELEMKO management systems

• ISO 9001 • ISO 14001 • ISO 45001

Country of Origin

Greece

Unit: piece / Package: 20 pieces

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