One-piece clamp for connecting conductor to plates and metal structures (TECS)

TECS 1670 · TECS 9518



KALOT Group's one-piece clamp for connecting conductor to plates and metal structures (code TECS) presses a copper earth conductor or a lightning protection conductor directly onto plates, columns, beams, angles and the steel frame of a building. The clamp is a single cast brass plate with a groove for the conductor along its edge; one stainless steel bolt passes through the hole in the plate and the hole in the structure, and as the nut is tightened the plate presses the conductor onto the metal surface.

- Direct connection of copper conductor to plates and steel frames
- Conductors from 16 to 185 mm² in two sizes
- One cast brass clamping plate, stainless steel bolt and nut
- Low profile, one hole in the structure

Technical specifications

Type	One-piece clamp for direct connection of one copper conductor to a plate or steel structure
Body	One trapezoidal cast brass clamping plate with a conductor groove along the wider edge
Bolts and nuts	Stainless steel: one hex bolt passing through the clamping plate and the hole in the structure, with a nut behind the structure
Suitable conductor	Stranded or solid copper conductor: earth conductor, bonding conductor or lightning protection down conductor
Conductor range	16 to 70 and 95 to 185 mm², in two sizes
Bolts and nuts	M8 × 35 for TECS 1670 and M10 × 50 for TECS 9518
Installation location	Plates, columns, beams, angles, earth plates and accessible steel structures with a clean, flat contact surface
Connection type	Bolted, can be opened and refastened
Codes	TECS 1670 and TECS 9518

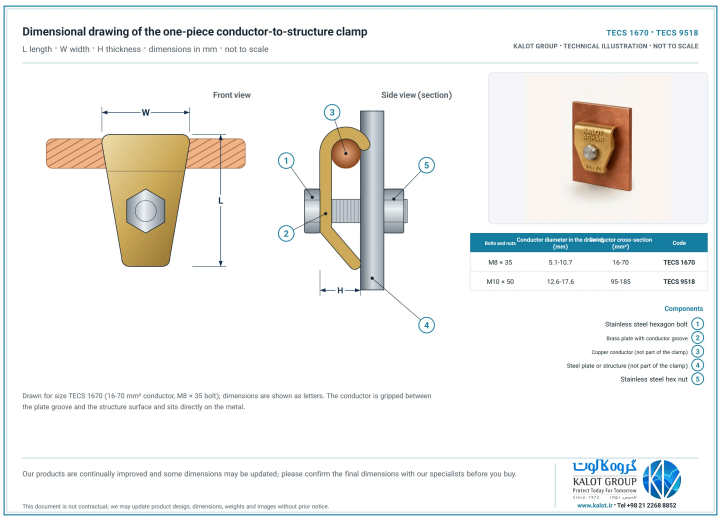
One-piece clamp sizes and codes (TECS)

Code	Conductor cross-section (mm²)	Conductor diameter on the drawing (mm)	Bolts and nuts
TECS 1670	16-70	5.1-10.7	M8 × 35
TECS 9518	95-185	12.6-17.6	M10 × 50

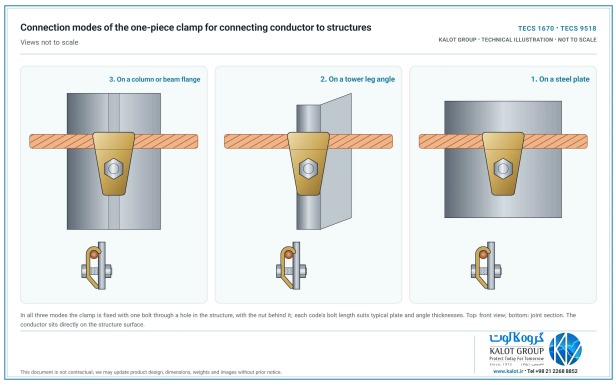
Cross-sections are in square millimetres. "Conductor diameter on the drawing" is the diameter of the conductors drawn for each size in our manufacturing drawings. The bolt length of each size is set for the usual thickness of plates and angles. If your structure is thicker, tell us its thickness when you enquire. We continually improve our products and some dimensions may be updated, so please confirm the final dimensions with our specialists before you buy.

This document is not contractual; we may update product design, dimensions, weights and images without prior notice.

Dimensional drawing



Connection modes



Installation

1. Select the clamp code by the conductor cross-section and make sure the bolt is long enough for the thickness of the structure. 2. Mark the clamp position and drill a hole slightly larger than the bolt diameter; deburr the edge of the hole. 3. Clean the area where the conductor and plate sit down to bare metal, removing paint, rust and grease; because the conductor is pressed directly onto this surface, this is the most important step of the installation. On a galvanised structure remove only the dirt and do not scrape off the zinc coating. 4. Clean the conductor at the joint and lay it on the surface of the structure, under the groove of the plate. 5. Pass the bolt through the plate and the hole in the structure, tighten the nut behind the structure by hand, then tighten it following the manufacturer's instructions so the plate presses the conductor evenly onto the metal. 6. Check that the conductor sits in the groove and does not slip under the plate; then coat the joint and the cleaned surface with paint or a moisture-proof compound.

Selection and enquiries

When you enquire, send us the conductor cross-section, the type and thickness of the plate or structure (column, beam, angle, earth plate), whether it is painted or galvanised, and the quantity you need. Our specialists will confirm the right code, bolt length and price.

This document is not contractual; we may update product design, dimensions, weights and images without prior notice.