Two-piece clamp for connecting conductor to plates and metal structures (TECD)

TECD 1670 · TECD 9518



KALOT Group's two-piece clamp for connecting conductor to plates and metal structures (code TECD), also known in the market as a tower clamp, connects a copper earth conductor or a lightning protection conductor to plates, columns, beams, tower angles and any other steel structure. The conductor sits in the hook-shaped groove of the inner plate, the outer plate goes over it, and one stainless steel bolt passes through both plates and the hole in the structure, pressing them together and onto the structure.

- Connects one copper conductor to a plate or steel structure, with one bolt
- Conductors from 16 to 185 mm² in two sizes
- Two cast brass jaws, stainless steel bolt and nut
- Conductor between two jaws, away from the structure's surface

Technical specifications

Type	Two-piece clamp for connecting one copper conductor to a plate or steel structure (mast clamp)
Body	Two cast brass jaws: inner jaw with a hook-like groove for the conductor, trapezoidal outer jaw that closes over the conductor
Bolts and nuts	Stainless steel: one hexagon bolt passing through both jaws 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 TECD 1670 and M10 × 45 for TECD 9518
Installation location	Plates, columns, beams, tower angles, tank bodies, equipment bases and accessible steel structures
Connection type	Bolted, can be opened and refastened
Codes	TECD 1670 and TECD 9518

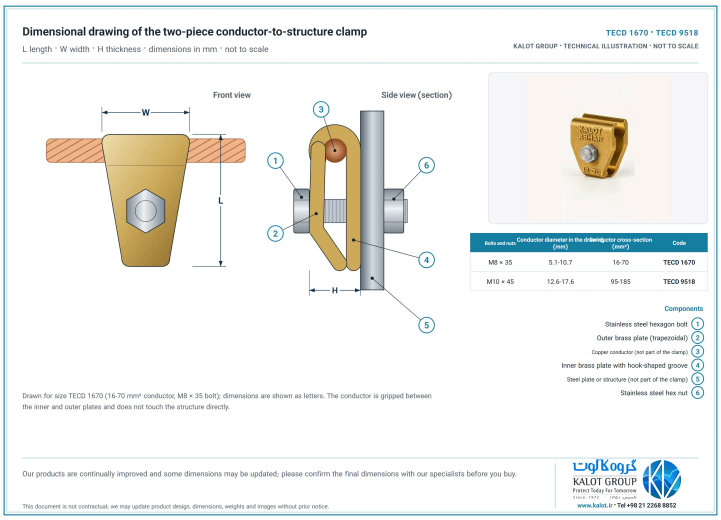
Sizes and codes of the two-piece clamp (TECD)

Code	Conductor cross-section (mm²)	Conductor diameter on the drawing (mm)	Bolts and nuts
TECD 1670	16-70	5.1-10.7	M8 × 35
TECD 9518	95-185	12.6-17.6	M10 × 45

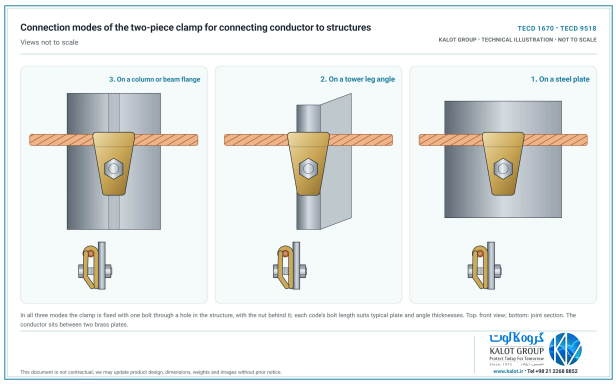
Cross-sections are in square millimetres. "Conductor diameter on the drawing" is the diameter of the conductors drawn for each size in our manufacturing drawings. The bolt length of each size is set for the usual thickness of plates and angles. If your structure is thicker, tell us its thickness when 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 on the structure and drill a hole slightly larger than the bolt diameter; deburr the edge of the hole. 3. Around the hole, over the area where the inner plate sits, remove paint, rust and grease down to clean metal; on a galvanised structure remove only the dirt and do not scrape off the zinc coating. 4. Clean the conductor at the joint, place it in the groove of the inner plate and put the outer plate over it. 5. Pass the bolt through both plates and the hole in the structure, tighten the nut behind the structure by hand, then tighten it following the manufacturer's instructions. 6. Check that the conductor sits in the groove and the clamp does not move on the structure; then coat the joint and the cleaned surface of the structure 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 structure the clamp will fix to (plate, angle, column or beam), whether it is painted or galvanised, and the quantity you need, and our specialists will advise the right code, bolt length and price.

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