# Galvanised clamp for connecting tape to earth rod and round wire

## TRCG 3016



In foundation earthing and bonding, before the concrete pour, KALOT Group's galvanised tape-to-earth rod clamp fixes galvanised steel tape to a round steel conductor: galvanised round wire, a reinforcing bar or a stainless steel earth rod. The round conductor is held in the saddle of the top plate and the tape between two flat plates; both pass between the two bolts, parallel or at a small angle, and the tape is neither drilled nor cut.

- Foundation earthing and bonding, inside concrete
- Tape up to 30 mm to round conductor 8 to 16 mm
- Round wire, reinforcing bar or earth rod; parallel or at a slight angle
- Three galvanised steel plates, two M8 bolts

## Technical specifications

| | |
|---|---|
| **Type** | Three-plate bolted clamp for connecting tape to a round conductor |
| **Material** | Galvanised steel (plates, bolts and nuts) |
| **Plates** | One saddle plate for the round conductor and two flat plates for the tape, all three of one design with two bolt holes |
| **Saddle** | Round and straight, perpendicular to the plate length, across its full width and between the two holes |
| **Bolts** | Two hex bolts M8 property class 8.8 |
| **Nuts** | Two hex nuts M8 |
| **Suitable tape** | Width 25 to 30 and thickness 3 to 3.5 mm: 25 × 3 (for tape inside concrete), 30 × 3 and 30 × 3.5 |
| **Suitable round conductor** | 8 and 10 mm galvanised round wire, reinforcing bar up to 16 mm in diameter over the ribs, and 16 mm stainless steel earth rod |
| **Conductor materials** | Galvanised or stainless steel tape; galvanised steel round wire, reinforcing bar or stainless steel earth rod |
| **Arrangement of the two conductors** | Parallel or at a slight angle to each other; both pass between the two bolts |
| **Conductor route** | Through-run or terminating; the tape is neither drilled nor cut |
| **Do not use with** | Copper or copper-coated conductor, tape or earth rod |
| **Connection type** | Bolted, can be opened and refastened |
| **Main application** | Foundation earthing and bonding, inside concrete |
| **Other locations** | In air, where galvanised tape and round wire meet |
| **Code** | TRCG 3016 |

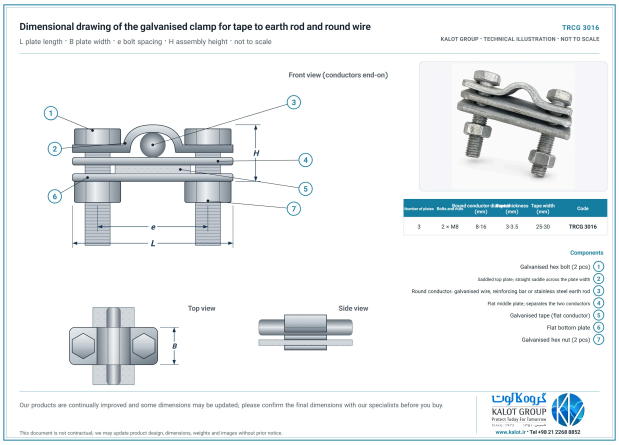
## Code and size range (TRCG)

| Code | Tape width (mm) | Tape thickness (mm) | Round conductor diameter (mm) | Bolts and nuts | Number of plates |
|---|---|---|---|---|---|
| TRCG 3016 | 25-30 | 3-3.5 | 8-16 | 2 × M8 | 3 |

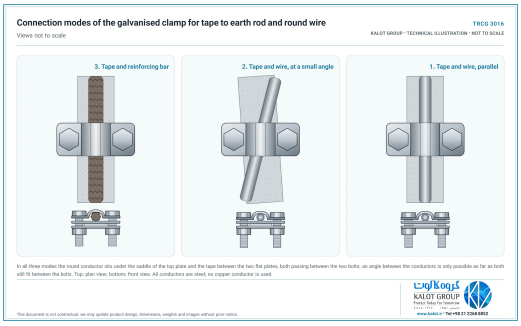
Diameters and dimensions are in millimetres, and ribbed reinforcing bar is measured over the ribs. Dimensions may change without prior notice; send us your project's tape and round conductor sizes so that our specialists can confirm the right clamp. Our products are continually improved


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## Dimensional drawing




## Connection modes




## Installation

1. Check the conductor materials and sizes: the tape must be galvanised or stainless steel, the round conductor galvanised round wire, a reinforcing bar or a stainless steel earth rod, and both sizes within the clamp's range. If you are fitting the clamp to an existing lightning protection system on a roof or facade, do not work during a thunderstorm, and leave the job to an installer familiar with earthing and lightning protection systems. 2. Choose the clamp position before installation: fit this clamp only where the tape meets a round conductor, and at the corners of the ring bend the tape rather than cutting and rejoining it. In a reinforcement mesh, place the clamp between two cross bars so the bolts and plates do not touch another bar, and in a strip foundation fix the tape to the longitudinal bar running in line with it. 3. Hold the tape with spacers or tie wire so it does not lie on the formwork base or the blinding concrete and the concrete can fill around the tape and clamp on all sides; setting the tape on edge also helps. 4. Clean the joint area with a cloth or soft brush to remove mud, cement slurry, rust, paint and grease; do not scrape the zinc coating off the tape, round wire or clamp. 5. Remove the nuts and take the two flat plates off the bolts; the bolts stay in the saddle plate. 6. Place the saddle plate on the round conductor so it sits in the saddle with one bolt on each side, then fit the middle flat plate onto the bolts from the other side of the conductor. If the round conductor is an earth rod, put the saddle on its smooth body, not on the driving head or the joint between two earth rod sections. 7. Lay the tape on the middle flat plate, between the two bolts, parallel or at a small angle to the round conductor, fit the outer flat plate onto the bolts and tighten the nuts by hand. 8. Align the plates and tighten the nuts with a spanner, evenly and in turn, following the manufacturer's instructions. Then check that the round conductor sits in the saddle across the full width of the plate and the tape lies flat between the plates; if the conductor ends at this clamp, leave at least 2 cm of it projecting beyond the edge of the clamp. 9. Before the pour, measure the concrete cover from the nearest point of the clamp, the bolt heads and nuts, to the base and sides of the formwork: at least 5 cm of structural concrete, not counting blinding concrete. Make joints that stay in the concrete with two clamps on two separate bars, and photograph every joint.

## Selection and enquiries


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