Clamp for connecting galvanised round wire to reinforcing bar

RRCG 1016



In foundation earthing and bonding, before the concrete pour, KALOT Group's galvanised round wire to reinforcing bar clamp fixes galvanised round wire to a reinforcing bar, in line with it. The clamp has two saddle plates, one for the round wire and one for the bar, and a middle flat plate that keeps the two conductors apart; each conductor is held in its own saddle, both pass between the two bolts, and neither is cut or drilled.

- Foundation earthing and bonding, inside concrete
- 8 and 10 round wire to reinforcing bar up to 16 diameter over the ribs
- Two saddle plates and a flat middle plate
- Galvanised steel, two M8 bolts

Technical specifications

Type	Three-plate bolted clamp for connecting galvanised round wire to reinforcing bar (round conductor to round conductor)
Material	Galvanised steel (plates, bolts and nuts)
Plates	Two saddle plates (top for the round wire, bottom for the reinforcing bar) and a flat middle plate, all three with one design and two bolt holes
Saddle	Round and smooth, perpendicular to the plate's length, across its full width and between the two holes; the saddle of both plates faces outwards
Bolts	Two hex bolts M8 property class 8.8
Nuts	Two hex nuts M8
Suitable round wire	8 and 10 mm galvanised steel round wire (about 50 and 78.5 mm²)
Suitable reinforcing bar	Reinforcing bar of 8 to 16 mm diameter over the ribs, meaning sizes 8, 10 and 12
Other conductors in the bottom saddle	A second galvanised round wire (8 or 10 mm) or a 16 mm stainless steel earth rod
Arrangement of the two conductors	In line or at a slight angle to each other; both pass between the two bolts
Conductor route	Through-run or end connection; the round wire and reinforcing bar are not cut or drilled
Do not use with	Conductor, earth rod or plate made of copper or coated with copper
Connection type	Bolted, can be opened and refastened
Main application	Foundation earthing and bonding, inside concrete
Other locations	In air, where two galvanised round wires are joined side by side
Code	RRCG 1016

Code and size range (RRCG)

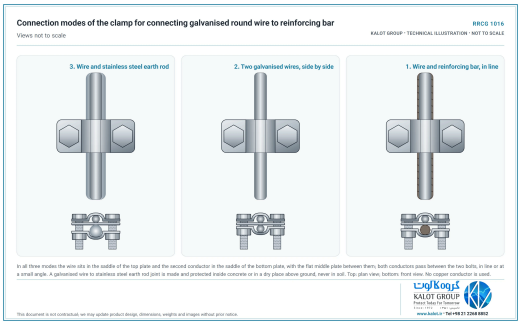
Code	Round wire diameter (mm)	Reinforcing bar diameter over the ribs (mm)	Bolts and nuts	Number of plates
RRCG 1016	8-10	8-16	2 × M8	3

Diameters are in millimetres, and the diameter of a ribbed reinforcing bar is measured over the ribs: a size 12 bar is about 14 mm over the ribs, and a size 14 bar exceeds 16 mm. Send us your project's round wire and reinforcing bar diameters so that our specialists can confirm the right clamp. Our products are continually improved and some dimensions may be updated; please confirm 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. Check the conductor materials and sizes: the round wire must be galvanised steel, 8 or 10 mm, and the reinforcing bar up to 16 mm in diameter over the ribs (size 12 and smaller). 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: pick a bar that runs in line with the round wire and place the clamp between two cross bars so the bolts and plates do not touch another bar. At the corners of the ring, bend the round wire rather than cutting and rejoining it. 3. Hold the round wire 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 wire and clamp on all sides. 4. Clean the joint area with a cloth or soft brush to remove mud, cement slurry, loose rust, paint and grease; do not scrape the zinc coating off the round wire or clamp. 5. Remove the nuts and take the bottom saddle plate and the middle flat plate off the bolts; the bolts stay in the top saddle plate. 6. Place the top saddle plate on the round wire so it sits in the saddle with one bolt on each side, then fit the middle flat plate onto the bolts from under the round wire. 7. Place this assembly on the bar so the bar, in line with the round wire, lies under the middle plate and between the two bolts; fit the bottom saddle plate onto the bolts from under the bar so the bar sits in its saddle, 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 wire and the bar each sit in their own saddle across the full width of the plate; if the round wire 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

To estimate the quantity, count on the foundation earthing drawing every point where round wire connects to reinforcement (two clamps for a connection that stays in concrete), every joint between two round wires, every branch and every stainless steel earth rod,