Galvanised U clamp for connecting conductor to earth rod and reinforcing bar (UBCG)

UBCG 1450



The KALOT Group galvanised U clamp, also known on the market as a galvanised U-bolt clamp, connects a galvanised steel conductor to an earth rod or a reinforcing bar. The U-bolt loops around the earth rod or reinforcing bar, and the conductor, running parallel to it, sits in the groove of the outer plate. As the two nuts are tightened, the conductor is clamped between the grooved plate and the flat plate, and the earth rod or reinforcing bar bears firmly against the flat plate: a bolted joint that can be opened and closed again for inspection and measurement.

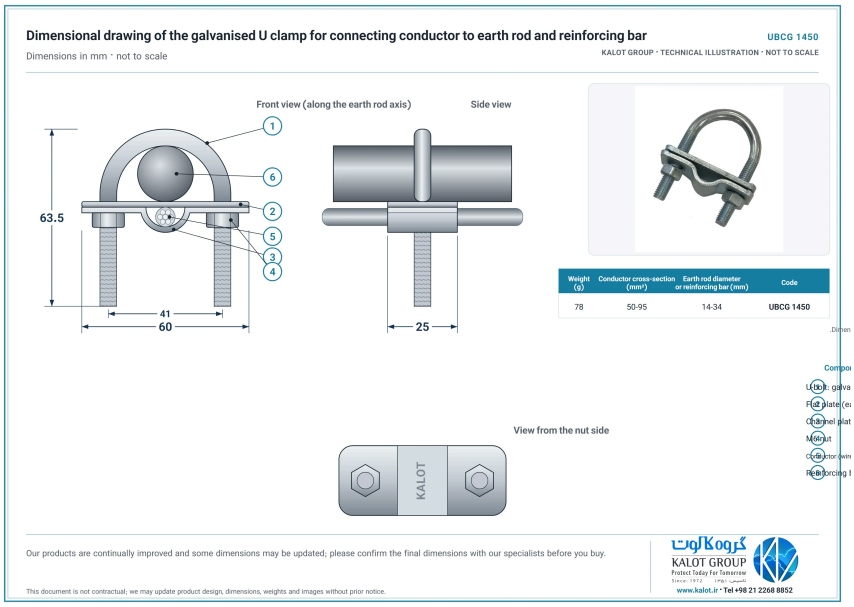
- Foundation earthing and bonding
- Galvanised or stainless steel round wire or tape
- Conductor 50 to 95 mm²; reinforcing bar 14 to 34 mm
- Pressed galvanised steel, U-bolt and M6 nuts

Technical specifications

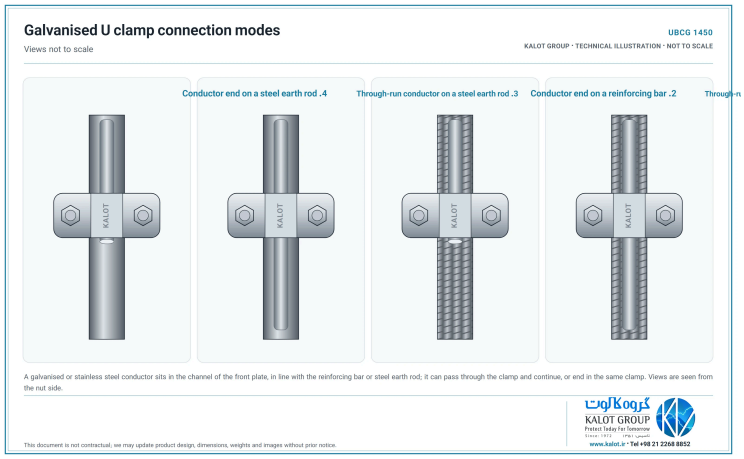
Type	Pressed U clamp for connecting a galvanised conductor to an earth rod or reinforcing bar
Material	Galvanised steel (plates, U-bolt and nuts)
Flat plate	2 mm steel sheet, 60 × 25 mm, with two 8 mm holes
Channel plate	Pressed 2 mm steel sheet, 60 × 25 mm, with two 8 mm holes, round channel and engraved KALOT
U-bolt	6 mm diameter, thread M6 40 mm long, inside diameter 35 mm, length 63.5 mm
Nuts	Two hex nuts M6
Weight	78 g (complete set)
Suitable conductor	Galvanised steel round wire (conductor) or tape; stainless steel conductor (wire or tape)
Do not use with	Copper conductor or copper earth rod
Round conductor cross-section	50 to 95 mm² (round wire 8 to 11 mm)
Suitable tape	Maximum width 30 mm; such as 25 × 3, 30 × 3 and 30 × 3.5 mm
Earth rod or reinforcing bar diameter	14 to 34 mm; for ribbed reinforcing bar, the diameter over the ribs (roughly sizes 14 to 28)
Conductor route	In line with the earth rod or reinforcing bar, in the plate channel; through-run or end connection
Connection type	Bolted, can be opened and refastened
Main application	Foundation earthing and bonding, on reinforcing bar

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Dimensional drawing



Connection modes



Installation

1. Choose the clamp by the conductor cross-section and the diameter of the reinforcing bar or earth rod, and make sure the conductor is galvanised steel or stainless steel and that no copper is in this joint. 2. Before installation, remove paint, rust, mud and concrete slurry from the contact faces of the earth rod or reinforcing bar and the conductor, and do not scrape the coating off the conductor or the clamp. 3. Undo the nuts, loop the U-bolt around the earth rod or reinforcing bar and fit the flat plate onto the legs of the U-bolt so it rests against the earth rod or reinforcing bar. 4. Lay the conductor on the flat plate parallel to the earth rod or reinforcing bar, fit the grooved plate so the conductor sits in its groove, and hand-tighten the nuts first. 5. Tighten the nuts with a spanner to the manufacturer's instructions until the conductor is clamped between the two plates and the clamp sits firmly on the earth rod or reinforcing bar. 6. Check that the conductor sits in the groove across the full width of the plate, that its end projects slightly beyond the edge of the clamp, and that the clamp has not damaged the conductor, earth rod or reinforcing bar. 7. If the joint stays inside foundation concrete, check before pouring that the

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