Three-piece U clamp for connecting two conductors to earth rod and reinforcing bar

UBTV 1416



KALOT Group's three-piece U clamp connects two copper earth conductors to one earth rod or reinforcing bar at the same time. The U-bolt loops around the earth rod or bar and three brass plates fit onto its legs; each conductor sits on its own level, between two plates. Tightening the two nuts clamps both conductors and seats the earth rod firmly in the seat of the top plate: a bolted joint that can be opened for inspection and measurement and closed again.

- Two copper conductors to one earth rod or reinforcing bar
- Three brass plates, each conductor in its own tier
- Each conductor in line or at right angles, through-run or terminating
- Stainless steel U bolt and nuts

Technical specifications

Type	Three-plate U clamp for connecting two conductors to an earth rod or reinforcing bar
Body (three plates)	Cast brass
U-bolt and nuts	Stainless steel
Fastening parts	U-bolt, thread M8 and two nuts
Conductor type	Stranded copper conductor; two conductors in two separate tiers
Earth rod or reinforcing bar diameter	14 to 20 mm
Cross-section of each conductor	16 to 150 mm²
Route of each conductor	In line with or at right angles to the earth rod; through-run or terminating
Matching earth rod	Copper, copper-bonded or stainless steel, threaded or unthreaded
Plate width × depth	60 × 38.8 mm
Weight	About 400 g
Connection type	Bolted, can be opened and refastened
Typical installation location	Earth inspection pit; foundation reinforcing bar before the concrete pour, or an accessible connection point
Code	UBTV 1416

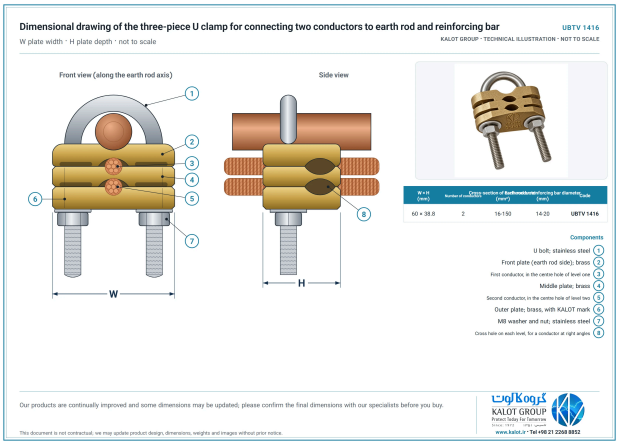
Three-piece U clamp code and size (UBTV)

Code	Earth rod or reinforcing bar diameter (mm)	Cross-section of each conductor (mm²)	Number of conductors	W × H (mm)
UBTV 1416	14-20	16-150	2	60 × 38.8

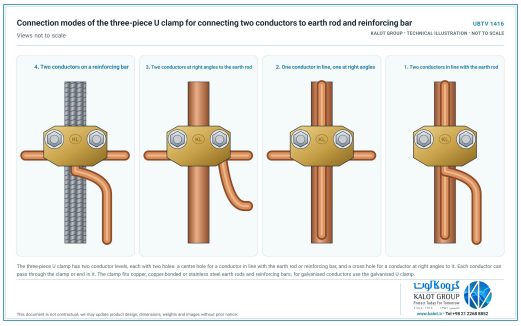
Diameters are in millimetres and cross-sections in square millimetres; W is the plate width and H the plate depth. Our products are continually improved and some dimensions may be updated, so please confirm final dimensions with our specialists before you buy.

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Dimensional drawing



Connection modes



Installation

1. Compare the diameter of the earth rod or reinforcing bar (14 to 20 mm) and the cross-section of both conductors (16 to 150 mm²) with the range of the clamp. 2. Before installation, remove paint, rust, mud and any non-conductive layer from the contact surfaces of the earth rod or bar and both conductors. 3. Remove the nuts, take the three plates off the legs and pass the U-bolt around the earth rod or bar. 4. Fit the top plate onto the legs so the earth rod sits in its seat; place the first conductor, in line with or at right angles to the earth rod, in its hole and put the middle plate over it. 5. Place the second conductor on the second level, on the middle plate, fit the outer plate and tighten the nuts by hand first. 6. Tighten the nuts with a spanner following the manufacturer's instructions until both conductors are fully clamped between the plates and the clamp sits firmly on the earth rod or bar. 7. Check that both conductors sit fully home in the holes, the three plates lie parallel on each other, and the clamp has not damaged the earth rod, bar or conductors. If the clamp stays inside concrete, photograph the joint before the pour; after the pour it can no longer be reached.

Selection and enquiries

When you enquire, send us the diameter and material of the earth rod or reinforcing bar, the cross-section of both conductors, the direction of each conductor (in line with the earth rod or at right angles to it) and the quantity you need, and our specialists will recommend the right clamp. For ribbed reinforcing bar, state its nominal diameter.

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