



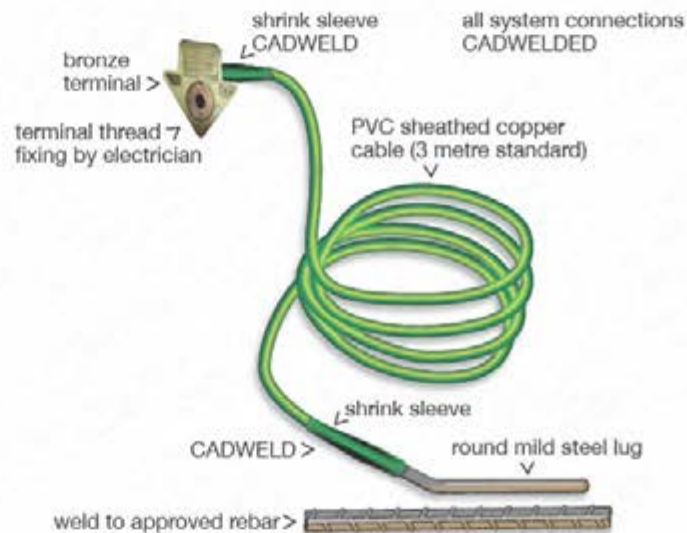
# WRICON

## EARTHING SYSTEMS - FOR ALL INSTALLATIONS

Whether it's a multi-million dollar, technology filled office tower, a pedestrian focused shopping mall or the kitchen/bathroom of your new house or apartment, you need the best earthing possible.

That's when you need WRICON - Complete System – Bare Tail – Domestic

### COMPLETE SYSTEM



The WRICON EARTHING SYSTEM provides the means to locate the entire system completely within the structure thus providing a location away from any possibility of accidental damage or unauthorised disconnection.

Safe and effective electrical earthing is the essential requirement of electrical installations and the use of reinforced concrete foundations is an excellent method of achieving this aim.

All WRICON products are made in New Zealand using only Genuine Cadweld connections.



MANUFACTURED BY:



DISTRIBUTED BY:



**DO NOT REMOVE THIS LABEL BEFORE FIXING THIS EARTH TERMINAL TO THE FORMWORK**

**ELECTRICIAN**  
Remove this label AFTER this earth terminal is concreted in position AND you are ready to bolt on the earthing conductor

**PLEASE ENSURE**  
1. Thread is clear  
2. Use correct bolt of correct length



# WRICON



**All Genuine WRICON products are clearly labelled. BEWARE of imitations!**

**IF IT DOESN'T SAY WRICON IT ISN'T**



**ALL GENUINE WRICON**  
Brass head plates have description including cable size plus internal thread protection

**ALL GENUINE WRICON**  
lugs have an information decal outlining important instructions for the installer

**ALL GENUINE WRICON**  
Terminal Plate Necks are made from electrical grade bronze that has been tinned

TYPE	WRICON Cable	Mains Cable	1 Sec Current Rating	3 Sec Current Rating	Lug Diameter	Terminal Thread Size	Terminal Depth
C / 16	16mm <sup>2</sup>	4mm <sup>2</sup> - 50mm <sup>2</sup>	2.3 KA	1.3 KA	10mm	M8	16mm
C / 35	35mm <sup>2</sup>	70mm <sup>2</sup> - 120mm <sup>2</sup>	5.0 KA	2.9 KA	10mm	M8	16mm
C / 50	50mm <sup>2</sup>	120mm <sup>2</sup> - 150mm <sup>2</sup>	7.1 KA	4.1 KA	16mm	M10	20mm
C / 70	70mm <sup>2</sup>	150mm <sup>2</sup> - 180mm <sup>2</sup>	10 KA	5.8 KA	16mm	M10	20mm
C / 95	95mm <sup>2</sup>	185mm <sup>2</sup> - 240mm <sup>2</sup>	13.6 KA	7.8 KA	16mm	M10	20mm
C / 120	120mm <sup>2</sup>	240mm <sup>2</sup> - 630mm <sup>2</sup>	17.2 KA	9.9 KA	16mm	M12	20mm

**SPECIAL NOTE:**

- Installer to notify local supply authority for inspection of welded termination to rebar before concrete is poured
- Suffix-BT depicts a bare tail Wricon

# DOMESTIC EARTHING SYSTEM

*Clause 5.6.2.5 in AS/NZ S3000 states "Any conductive reinforcing within a concrete floor or wall of a room containing a shower or a bath shall be bonded to the earthing system of the electrical installation"*

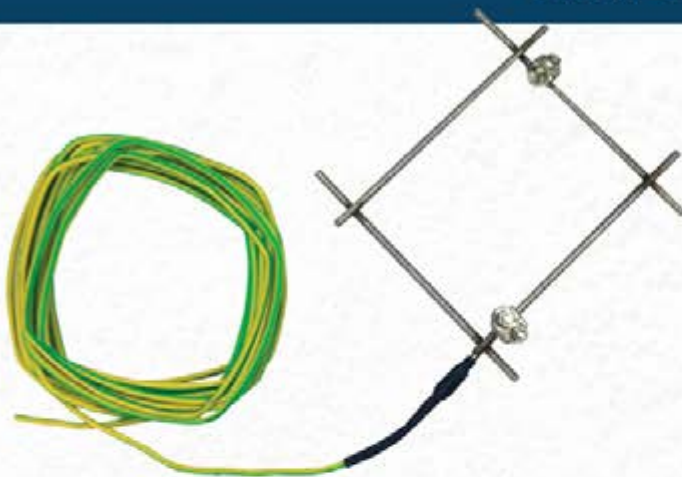
*"An equipotential bonding conductor, in accordance with Clause 5.6.3, shall be connected between the reinforcing material and any part of the earthing system and the room.*

The WRICON Domestic Earthing System has been designed as a reliable and constant electrical earth for this purpose. This provides a direct electrical bond to reinforcing steel mesh in domestic housing concrete foundations.

The system can be installed easily, simply and professionally, by contractors on site in the form of a clamped or welded connection to the reinforcing mesh.

The WRICON Domestic Earthing System earth lead is safely cast within the concrete and cannot be severed by other trades on site. CADWELD welded connections (unlike compression connections) do not deteriorate nor increase in resistance over time. The insulated earth lead incorporated in the WRICON Domestic Earthing System prevents galvanic corrosion and high resistance joints.

## CLAMP SYSTEM



Part No. C-6-CK

- 10 metres of 6mm PVC sheathed conduit wire
- Easy clamp system for connection to mesh
- 10mm wrench
- Bare end suitable for crimp terminal

## WELDED SYSTEM

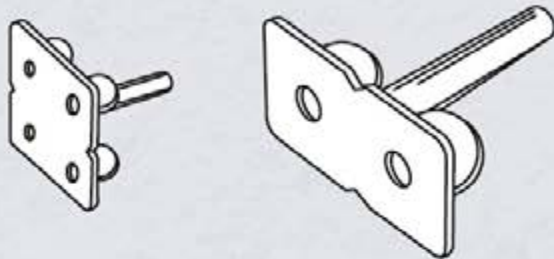


Part No. C-6-BT

- 10 metres of 6mm PVC sheathed conduit wire
- Mild steel lug suitable for welding to mesh
- Bare end suitable for crimp terminal



# INDUSTRIAL WRICON



*Wricons also available with 2 or 4 hole terminal*

Larger size WRICONS can also be supplied on request with two or four bolt plates made from tinned copper alloy. Manufactured primarily for concrete embedment.

## TECHNICAL DETAIL FOR HIGH TENSILE REBAR

If the intended attachment point is high tensile structural rebar, then the placement of an additional full length non high tensile bar is recommended and is to be affixed in accordance with current industry practice to the existing structural reinforcement. The WRICON lug is then attached to this additional bar.

The length of the cranked steel lug end is designed to be of sufficient length to enable hand welding of one side only and still achieve a cross sectional area greater than the fault rating of the chosen WRICON cable.

The core component of the WRICON system is the CADWELD exothermic connection utilised to transition the concentric conductor to both the tin plated head of the terminal plate and the round steel lug used to attach to the rebar. The mass created with any Cadweld connection is always greater than any individual component and therefore provides a permanent and indestructible path for any fault current.



Manufactured by  
**CONTRACT CONNECTIONS LTD**  
P. (09) 274 4049  
[www.contractconnections.co.nz](http://www.contractconnections.co.nz)



Distributed by  
**TRANSNET NZ LIMITED**  
FP. 0800 442 182 | F. 0800 442 183  
E. [sales@transnet.co.nz](mailto:sales@transnet.co.nz) | W. [www.transnet.co.nz](http://www.transnet.co.nz)

