

CABLE CONNECTIONS

Electronic pin brazing unit ECONECT

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German Cathodic Protection



For use when a cathodic protection system is to be applied to steel, ductile or cast-iron pipelines, vessels, tanks or reinforcement bars. Pin brazing is a simple, maintenance free alternative to thermite welding.



The advantages of pin brazing

- Works in any weather condition
- Very fast method, the pin brazing process takes only a second
- Does not affect internal coatings
- Economical
- Safe for the operator
- Uses lower temperature than thermite welding
- Does not melt the work material
- No need for special moulds
- The whole preparation takes less than 1 minute

Electronic digitised Pin Brazing Unit ECONECT

The new lightweight and digitized pin brazing unit ECONECT reaches a whole new level of performance.

It has a higher brazing capacity than previous models but at 60 % less unit weight, making it ideal for maintenance works. Which not only makes it ideal for maintenance works. ECONECT is powered by a revolutionary new nano-battery with longer life than previous batteries. Supplied as standard with patented automatic S4 brazing gun, uses brazing pins without fuse wire.

Technical Specifications

Voltage	36 V DC	Width	150 mm
Number of brazes	50	Height	280 mm
Weight incl. batteries	9.8 kg	Length	320 mm

ECONECT SAFE 94360 is supplied with:

Braze S15 Automatic gun	SAFE 91016
Pinholder 8-9.5 mm	SAFE 9211
Ringholder 8-9.5 mm	SAFE 9202
Battery (1 pc. required)	SAFE 80982
Grinding machine	SAFE 8007
Ground super magnet	SAFE 8069
Tool case	SAFE 9524
Shoulder strap	SAFE 9523

Add Battery Charger (not included)

Stationary Battery Charger 230 V	SAFE 8048
Battery charger for car use 12 V	SAFE 80561

Brazing pins

The Pin brazing system use a special, patented brazing pin with silver content for a melting temperature of less than 700°C (1300°F). The special pin brazing technique ensures that only the solder material melts. The steel structure is never damaged.

SAFE No.	Dimensions mm	Qty. pack
10051	Ø 8	100
10301	Ø 8 extra	100
10191	Ø 9.5	100
10381	M8, Threaded brazing pin, L=16	50
10401	M10, Threaded brazing pin, L=24	50
10421	M12, Threaded brazing pin, L=24	50



Accessories

Ground Grip	SAFE 8071
Grinding wheel, silicon free	SAFE 8025
Carbide burr, type C	SAFE 8014
Carbide burr, type C extended	SAFE 8014XL
Pin holder 8-9.5 (A)	SAFE 9211
Pin holder M8 (B)	SAFE 9213
Pin holder M10 (C)	SAFE 9215
Pin holder M12 (D)	SAFE 9217
Ring holder 8-9.5	SAFE 9202
Ring holder M8/M10/M12	SAFE 9204
Extension set for S4 / 8-9.5	SAFE 9227
Extension set threaded pins	SAFE 9229

Ground grip SAFE 8071



Ferrules

Ferrules are used in pin brazing to prevent the brazing gun from sticking to the work piece and for better distribution of the oxygen during the process.

SAFE No.	Dimensions mm	Qty. pack
2003	Ø 8	100
2009	Ø 9.5	100
2012	Ø 12 use for all brazing pins (M8/M10/M12)	100

Cable Lugs - Field made bonds

To obtain a perfect bond, it is essential that only lugs are used which have been specially manufactured for pin brazing.

The lug is crimped to the cable using a crimping tool. Lugs are supplied in kits with brazing pins and ferrules so there is no risk of mixing the materials.



Cable lug SAFE No.	Cable area	D inner	D outer	Qty. pack	Complete kit incl. Brazing pin
6056CP	10 mm ²	6	9	100	SAFE 10051
6057Cp	16 mm ²	6.5	9	100	SAFE10051
6080CP	25 mm ²	8	12	100	SAFE10301
6091CP	Ø 8 mm	8.5	12	100	SAFE10301
6081CP	35 mm ²	9	12	100	SAFE10301
6079CP	50 mm ²	11	14	100	SAFE10301

For connecting smaller cable sizes, use terminal sleeves and lugs as follows:

2.5 mm², use sleeve SAFE 6700 + lug SAFE 6056

4.0 mm², use sleeve SAFE 6701 + lug SAFE 6056

6.0 mm², use sleeve SAFE 6702 + lug SAFE 6056