
PRODUCT CATALOGUE

FurseWELD[®] exothermic welding

Remote ignition system

FURSEWELD[®]



FurseWELD

Remote ignition kit



FurseWELD remote ignition kit provides a safe and efficient method to ignite exothermic welding powder when creating high quality electrical connections.

The FurseWELD Remote Ignition Process

FurseWELD remote ignition kit provides a safe, user friendly and remote method to ignite a high temperature reaction of powdered copper oxide and aluminium, within a mould, to form permanent electrical connections.

The hassle free FurseWELD remote ignition kit can be assembled in a matter of minutes using our extensive installation guide. Once the kit has been assembled, a single use ignition strip is loaded into the ignition block and then inserted into the desired FurseWELD mould. The mould should already have the conductors in position.

Next the operator will place the steel retaining disc into the crucible, pour in the weld powder, place the steel hood unit over the mould and retreat to a safe distance. Using either the remote ignition unit or the wireless ignition fob the operator will activate the ignition strip, in turn igniting the welding powder within the mould.

The FurseWELD Remote Ignition Kit:

- Removes the need to use ignition starter powder with a traditional flint gun, allowing ignition from a safe distance reducing exposure to smoke and fumes.
- Creates guaranteed ignition spark unlike traditional methods.
- Is completely portable and rechargeable.
- Can be used safely with minimum training.

The FurseWELD Remote Ignition Kit parts:

- Remote Ignition Unit
- Cable with Ignition Block
- Wireless Ignition Fob
- Charger
- Ignition strips (sold separately)

Accessories available:

- Stainless Steel Protective Hood - used to contain sparks from exothermic reaction and reduce smoke and fumes

Ignition Strips

The FurseWELD ignition strips have been designed to safely ignite the exothermic welding powder in the mould. The ignition strip is made from stainless steel.

FurseWELD quality notes

FurseWELD Remote Ignition kit should only be used with our exothermic welding moulds (those with part number suffix IU) and powders.

Training is available for FurseWELD Remote Ignition users on request.



FurseWELD remote ignition kit

Operation steps



1. Plug the ignition cable into the device. Insert the ignition strip (supplied separately) into the ignition block.



2. Insert the ignition strip into the small slot that is in the front side of the mould.



3. Place the steel retaining disc in the mould and pour the weld powder into the mould. Ensure the ignition strip is covered and centred in the mould.



4. Cover the mould with the steel hood and turn the power switch to option - to use the remote fob. Alternatively, turn the power switch to option = to use the button on the main ignition unit. Pressing the ignition button in preferred mode will then ignite the powder.



5. Press the power switch button to the middle position. Remove the cable and ignition strip from the mould. Remove the used ignition strip. Repeat the process again from **step 1**.

CAUTION!

1. Read the instruction sheet carefully and where possible attend training before using this device - either online, at Furse premises, your own premises or on the project site with a FurseWELD specialist.
2. Do not perform under wet or rainy conditions.
3. Don't use other charger which the main parameters do not adapt to this device.
4. Follow site safety requirements and other ABB safe practices for the exothermic welding procedure throughout the whole operation process.

GOOD PRACTICE

1. Battery must be charged to 20% or greater to avoid strip ignition failure due to low power.
2. When battery is fully charged, unplug from charge point.
3. Store device fully charged in a cool dry condition when not in use.
4. This device is designed and intended for use only with ABB Furse exothermic welding materials.

FurseWELD

Remote ignition kit

Remote ignition kit - FurseWELD



Part no.	Order code	Description
IU100	7TCA083930R0106	FurseWELD remote ignition kit, includes carrying case, ignition unit, fob, cable/block, mains charger & UK 3 pin adaptor

Stainless steel hood - FurseWELD



Part no.	Order code	Description
SHPK4	7TCA083930R0103	Furseweld stainless steel hood (80x80mm to suit PK4 moulds)
SHPK5	7TCA083930R0102	Furseweld stainless steel hood (100x100mm to suit PK5 moulds)

Ignition strips - FurseWELD



Part no.	Order code	Description
IS100	7TCA083930R0107	FurseWELD ignition strips (5 pcs per pack)

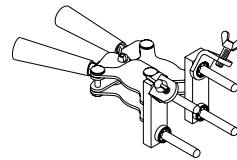
FurseWELD

Handle clamps & powder

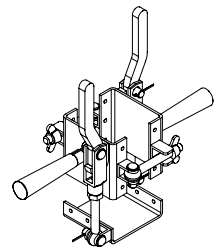
Handle clamps - FurseWELD



Part no.	Order code	Description
HCPK4	7TCA083930R0022	Two-part moulds (Price Key 4)
HCPK5	7TCA083930R0023	Two-part moulds (Price Key 5)
HCPK7	7TCA083930R0024	Multi-part moulds (Price Key 7)
HCPK8	7TCA083930R0025	Multi-part moulds (Price Key 8)
Frames		
F1-FU	7TCA083930R0008	Frame for use with Handle Clamp HCPK4
F2-FU	7TCA083930R0010	Frame for use with Handle Clamp HCPK5



HCPK4 & HCPK5



HCPK7

Handle clamps with chain grip enable location and fixing of the mould on to uneven surfaces such as pipes and rebars
 Note: Drawings for illustration only. Product supplied may vary from illustration shown

Exothermic welding powder - FurseWELD

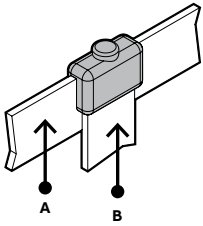


Part no.	Order code	Description	Pack quantity
15P10	7TCA083920R0004	Exothermic welding powder, size 15	20
25P10	7TCA083920R0008	Exothermic welding powder, size 25	20
32P10	7TCA083920R0009	Exothermic welding powder, size 32	20
45P10	7TCA083920R0010	Exothermic welding powder, size 45	20
65P10	7TCA083920R0010	Exothermic welding powder, size 65	10
90P10	7TCA083920R0012	Exothermic welding powder, size 90	10
115P10	7TCA083920R0000	Exothermic welding powder, size 115	10
150P10	7TCA083920R0002	Exothermic welding powder, size 150	10
200P10	7TCA083920R0006	Exothermic welding powder, size 200	10
250P10	7TCA083920R0007	Exothermic welding powder, size 250	10

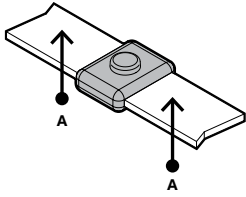
FurseWELD

Bar to bar BB3, BB7 & BB14

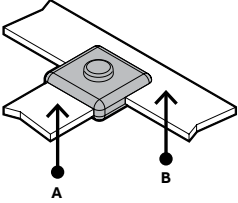
Bar to bar BB3 - FurseWELD

	Flat tape conductor size A (mm)	Flat tape conductor size B (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	25 x 3	25 x 3	BB3-4-253253-IU	-	65P10	HCPK4

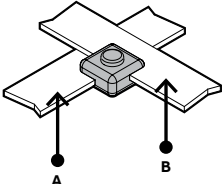
Bar to bar BB7 - FurseWELD

	Flat tape conductor size A (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	25 x 3	BB7-4-253-IU	-	65P10	HCPK4
	25 x 4	BB7-4-254-IU	-	90P10	HCPK4
	25 x 6	BB7-4-256-IU	-	115P10	HCPK4
	40 x 4	BB7-4-404-IU	-	115P10	HCPK4
	50 x 4	BB7-5-504-IU	-	200P10	HCPK5
	50 x 6	BB7-5-506-IU	-	250P10	HCPK5

Bar to bar BB14 - FurseWELD

	Flat tape conductor size A (mm)	Flat tape conductor size B (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	25 x 3	25 x 3	BB14-4-253253-IU	-	65P10	HCPK4
	25 x 4	25 x 4	BB14-4-254254-IU	-	90P10	HCPK4
	40 x 4	40 x 4	BB14-4-404404-IU	-	115P10	HCPK4
	40 x 6	40 x 6	BB14-4-406406-IU	-	200P10	HCPK4
	50 x 4	50 x 4	BB14-5-504504-IU	-	200P10	HCPK5
	50 x 6	50 x 6	BB14-5-506506-IU	-	250P10	HCPK5

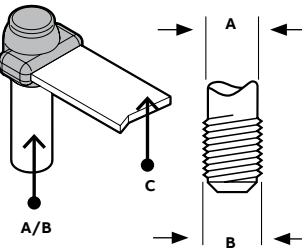
Bar to bar BB41 - FurseWELD

	Flat tape conductor size A (mm)	Flat tape conductor size B (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	25 x 3	25 x 3	BB41-4-253253-IU	-	65P10	HCPK4

FurseWELD

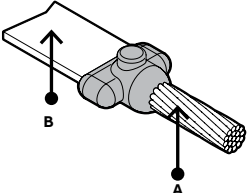
Bar to earth rod BR1. Cable to bar CB1 & CB4

Bar to earth rod BR1 - FurseWELD

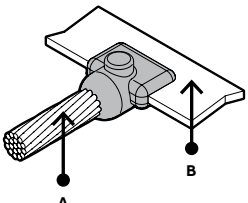
	Earth rod A ø (mm)	Earth rod B ø (")	Flat tape conductor size C (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	14.2	5/8	25 x 3	BR1-4-142253-IU	-	90P10	HCPK4
	14.2	5/8	25 x 4	BR1-4-142254-IU	-	115P10	HCPK4
	14.2	5/8	40 x 4	BR1-4-142404-IU	-	150P10	HCPK4
	14.2	5/8	50 x 4	BR1-4-142504-IU	-	200P10	HCPK4
	14.2	5/8	50 x 6	BR1-4-142506-IU	-	200P10	HCPK4

Suitable for connections to copperbond rods - for connections to solid copper and stainless steel rods please contact our sales office
 Threaded portion of copperbond rods must be removed prior to welding
 Special moulds for all FurseWELD products can be manufactured to meet specific customer applications on request

Cable to bar CB1 - FurseWELD

	Stranded/solid circular conductor size A (mm ²)	Flat tape conductor size B (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	120	30 x 5	CB1-4-120504-IU	-	115P10	HCPK4

Cable to bar CB4 - FurseWELD

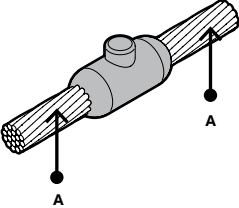
	Stranded/solid circular conductor size A (mm ²)	Flat tape conductor size B (mm)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	70	25 x 3	CB4-4-70253-IU	-	65P10	HCPK4
	70	25 x 4	CB4-4-70254-IU	-	65P10	HCPK4
	70	25 x 6	CB4-4-70404-IU	-	90P10	HCPK4
	95	25 x 4	CB4-4-95254-IU	-	90P10	HCPK4
	120	25 x 6	CB4-4-120254-IU	-	115P10	HCPK4
	240	50 x 6	CB4-4-240506-IU	-	250P10	HCPK4

Special moulds for all FurseWELD products can be manufactured to meet specific customer applications on request
 FurseWELD moulds for use with stranded conductor are designed for use with non-compacted conductor to BS EN 60228. If a mould for compacted conductor is required, please contact your local representative

FurseWELD

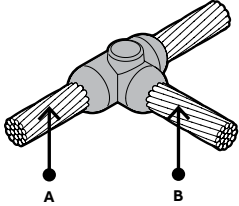
Cable to cable CC1 & CC2

Cable to cable CC1 - FurseWELD

	Stranded/solid circular conductor size A (mm ²)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	95	CC1-4-95-IU	–	90P10	HCPK4
	120	CC1-4-120-IU	–	115P10	HCPK4

Special moulds for all FurseWELD products can be manufactured to meet specific customer applications on request
 FurseWELD moulds for use with stranded conductor are designed for use with non-compacted conductor to BS EN 60228. If a mould for compacted conductor is required, please contact your local representative

Cable to cable CC2 - FurseWELD

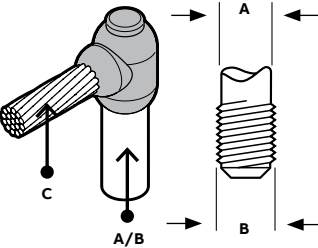
	Stranded/solid circular conductor size A (mm ²)	Stranded/solid circular conductor size B (mm ²)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	95	95	CC2-4-9595-IU	–	115P10	HCPK4
	120	50	CC2-4-120120-IU	–	90P10	HCPK4

Special moulds for all FurseWELD products can be manufactured to meet specific customer applications on request
 FurseWELD moulds for use with stranded conductor are designed for use with non-compacted conductor to BS EN 60228. If a mould for compacted conductor is required, please contact your local representative

FurseWELD

Cable to earth rod CR1 & CR2

Cable to earth rod CR1 - FurseWELD

	Earth rod A ø (mm)	Earth rod B ø (")	Stranded/solid circular conductor size C (mm ²)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	14.2	5/8	70	CR1-4-14270-IU	-	90P10	HCPK4
	14.2	5/8	185	CR1-4-14295-IU	-	115P10	HCPK4
	14.2	5/8	120	CR1-4-142120-IU	-	90P10	HCPK4
	14.2	5/8	150	CR1-4-142150-IU	-	115P10	HCPK4

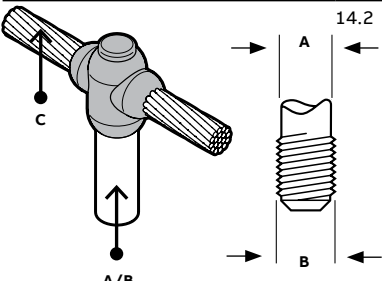
Suitable for connections to copperbond rods - for connections to solid copper and stainless steel rods please contact our sales office

Threaded portion of copperbond rods must be removed prior to welding

Special moulds for all FurseWELD products can be manufactured to meet specific customer applications on request

FurseWELD moulds for use with stranded conductor are designed for use with non-compacted conductor to BS EN 60228. If a mould for compacted conductor is required, please contact your local representative

Cable to earth rod CR2 - FurseWELD

	Earth rod A ø (mm)	Earth rod B ø (")	Stranded/solid circular conductor size C (mm ²)	Mould part no.	Order code	Powder cartridge part no.	Handle clamp part no.
	14.2	5/8	120	CR2-4-142120-IU	-	150P10	HCPK4

Suitable for connections to copperbond rods - for connections to solid copper and stainless steel rods please contact our sales office

Threaded portion of copperbond rods must be removed prior to welding

Special moulds for all FurseWELD products can be manufactured to meet specific customer applications on request

FurseWELD moulds for use with stranded conductor are designed for use with non-compacted conductor to BS EN 60228. If a mould for compacted conductor is required, please contact your local representative

FurseWELD

Accessories

Accessories - FurseWELD

Part no.	Order code	Description
B135	7TCA083930R0000	Cable cleaning brush
BCM	7TCA083930R0001	Mould cleaning brush
BFC	7TCA083930R0002	Tape cleaning brush
DUXSEAL	7TCA083930R0005	Duxseal sealing compound (1 lb)
STM1-FU	7TCA083930R0079	Mould cleaning scraper
TB100-FU	7TCA083930R0080	Welding toolbox
TK100	7TCA083930R0081	Standard toolkit for bar to bar joints Includes tape cleaning brush (BFC), mould cleaning brush and scraper (BCM & STM1-FU)
TK200	7TCA083930R0082	Standard toolkit for cable to cable joints Includes cable cleaning brush (B135), mould cleaning brush and scraper (BCM & STM1-FU)
MJ4	7TCA083930R0052	Mould jacket (Price Key 3 & 4)
MJ5	7TCA083930R0053	Mould jacket (Price Key 5)



Duxseal sealing compound



Cable cleaning brush,
tape cleaning brush,
mould cleaning brush
& scraper tool

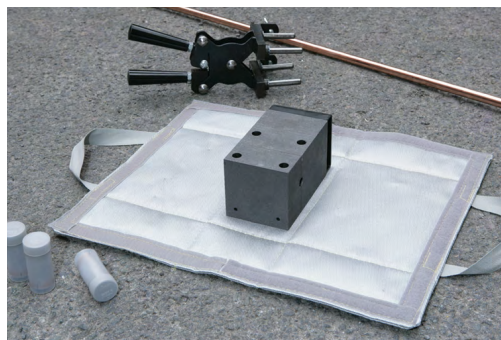


Welding toolbox



Mould jacket

The Furse mould jacket is designed to permit safe and secure transportation and storage of FurseWELD moulds. Manufactured from woven Kevlar synthetic material with silicate padding and Velcro lined edges, the jacket protects against splashing of hot metal sparks, and prevents moisture ingress and damage to the mould.



Appendix

Part number index

Part. No.	GID No.	Page	Part. No.	GID No.	Page
115P10	7TCA083920R0000	5	HCPK8	7TCA083930R0025	5
150P10	7TCA083920R0002	5	IS100	7TCA083930R0107	4
15P10	7TCA083920R0004	5	IU100	7TCA083930R0106	4
200P10	7TCA083920R0006	5	MJ4	7TCA083930R0052	10
250P10	7TCA083920R0007	5	MJ5	7TCA083930R0053	10
25P10	7TCA083920R0008	5	SHPK4	7TCA083930R0103	4
32P10	7TCA083920R0009	5	SHPK5	7TCA083930R0102	4
45P10	7TCA083920R0010	5	STM1-FU	7TCA083930R0079	10
65P10	7TCA083920R0010	5	TB100-FU	7TCA083930R0080	10
90P10	7TCA083920R0012	5	TK100	7TCA083930R0081	10
B135	7TCA083930R0000	10	TK200	7TCA083930R0082	10
BB14-4-253253-IU		6			
BB14-4-254254-IU		6			
BB14-4-404404-IU		6			
BB14-4-406406-IU		6			
BB14-5-504504 -IU		6			
BB14-5-506506-IU		6			
BB3-4-253253-IU		6			
BB41-4-253253-IU		6			
BB7-4-253-IU		6			
BB7-4-254-IU		6			
BB7-4-256-IU		6			
BB7-4-404-IU		6			
BB7-5-504-IU		6			
BB7-5-506-IU		6			
BCM	7TCA083930R0001	10			
BFC	7TCA083930R0002	10			
BR1-4-142253-IU		7			
BR1-4-142254-IU		7			
BR1-4-142404-IU		7			
BR1-4-142504-IU		7			
BR1-4-142506-IU		7			
CB1-4-120504-IU		7			
CB4-4-120254-IU		7			
CB4-4-70253-IU		7			
CB4-4-70254-IU		7			
CB4-4-70404-IU		7			
CB4-4-95254-IU		7			
CR1-4-142120-IU		9			
CR1-4-142120-IU		9			
CR1-4-142150-IU		9			
CR1-4-142150-IU		9			
CR1-4-14295-IU		9			
CR1-4-14295-IU		9			
CR2-4-142120-IU		9			
DUXSEAL	7TCA083930R0005	10			
F1-FU	7TCA083930R0008	5			
F2-FU	7TCA083930R0010	5			
HCPK4	7TCA083930R0022	5			
HCPK5	7TCA083930R0023	5			
HCPK7	7TCA083930R0024	5			



—
ABB Furse

Electrification

Wilford Road

Nottingham, UK

NG2 1EB

Tel: +44 (0) 115 964 3700

Fax: +44 (0) 115 986 0071

E-mail: enquiry@furse.com

www.furse.com