



Product Catalogue

Earthing & lightning protection

Short form product catalogue

furse 

ABB

Earthing & lightning protection

Short form product catalogue

Introduction	1
Conductors	2
Air termination	3
Conductor network	4
Accessories	5
Earth electrodes	6
Earth bonds & clamps	7
Earth bars	8
Compression connectors & tools	9
Moulds & mini-moulds, powders, sleeves	10
Handle clamps & accessories	11
FurseWELD Connection Selection Guide	12
Protectors for mains power supplies	13

Furse overview

Our reach & expertise

1

With over 120 years of experience Furse provide world leading Earthing, Lightning and Electronic Systems Protection solutions. From our own designed and manufactured products, through to risk assessment and systems design advice, Furse offer a renowned Total Solution for earthing and lightning protection.

Furse was acquired by the ABB Group in 2012, and through the wider distributor network they offer, the Furse brand has now become established as a world leader in earthing and lightning protection, with our products specified and installed in many prestigious projects globally.

The combined expertise of Furse and the experience within the electrical sector ABB provide, allows us to share the knowledge we hold in key industry sectors with our clients. In turn this promotes properly informed decision making on the best earthing and lightning protection solution to suit your needs.

Why use Furse?

Expertise

Specialist advice from our fully qualified technical engineers - focusing on your earthing and lightning protection issues and concerns.

Experience

Providing the optimum design - one that doesn't use more material than is necessary, saving you money.

Products

Our knowledge of the latest products ensures a tailored design that can be installed using the most appropriate and up-to-date products.

Technical

With over 120 years accumulated knowledge of developing earthing and lightning protection solutions, we provide design systems to any recognised standard.

Customer service

Our sales and technical teams are ready to assist with all your earthing and lightning protection needs.

Knowledge

Our knowledge of the latest standards ensures designs and selected products comply with the latest IEC/BS EN/NFPA/UL standards.



Earthing & lightning protection

A real & significant threat

Lightning is one of nature's most powerful and destructive phenomena. Lightning strikes present a real and significant threat to life, to the structures in which we live and work, and to the electronic systems which support us

1

Lightning contains awesome amounts of electrical energy. Lightning discharges have been measured from several thousand to over 200,000 Amps (enough to light half a million 100 Watt bulbs) and even though of a very short duration, can cause tremendous damage and destruction.

The consequences of lightning can be devastating:

- Direct lightning strikes damage structures, and create fire, explosion and electric shock hazards.
- Indirect lightning (up to a kilometre away) creates transient overvoltages which degrade electronic systems and disrupt essential services.

Secondary effects of lightning

The effects of a direct strike are obvious and immediately apparent - buildings damaged, trees blown apart, personal injuries and even loss of life.

However, the secondary effects of lightning - the short duration, high voltage spikes called transient overvoltages - can, and do, cause equally catastrophic, if less visually obvious, damage to electronic systems within structures.

The need for a Total Solution

Lightning protection throughout the world is now governed by National and International standards which stress the need for a comprehensive solution. Simply put, a structural lightning protection system cannot and will not protect electronic systems from lightning currents and transient overvoltages, that's why we advocate a Total Solution to earthing and lightning protection. This approach to lightning protection is now fully endorsed by the IEC/BS EN 62305, as well as NFPA 780 standards.

Therefore the Furse approach delivers effective life safety, together with long lasting, reliable protection of a structure and the electronic systems within. We believe the Furse Total Solution is the best available solution for achieving effective, dependable, long term lightning protection and earthing.

Protecting against the consequences of lightning is now of paramount importance in any building design, our Total Solution covers a wide range of sectors, for which we have tailored products and services.

1 Datacentres | 2 Trackside substations | 3 Wind farms | 4 Oil & Gas | 5 Water treatment | 6 Telecommunications | 7 Healthcare | 8 Substations



Conductors

Bare conductors, bare stranded & tinned conductors

2



Bare copper tape

Part no.	Conductor size (X x Y) (mm)
TC005	12.5 x 1.5
TC010	12.5 x 3
TC015	20 x 1.5
TC020	20 x 3
TC020/100	20 x 3
TC025	25 x 1.5
TC026	25 x 2
TC030	25 x 3
TC030/50	25 x 3
TC030-UL	1" x 1/8"
TC035	25 x 4
TC040	25 x 6
TC040-UL	1" x 1/4"
TC039	30 x 2
TC042	30 x 3
TC044	30 x 4
TC043	30 x 5
TC045	31 x 3
TC048	31.5 x 4
TC050	31 x 6
TC055	38 x 3
TC060-FU	38 x 5
TC065	38 x 6
TC067	40 x 3
TC066	40 x 4
TC071	40 x 5
TC068	40 x 6
TC069	40 x 6.3
TC070	50 x 3
TC075	50 x 4
TC078	50 x 5
TC080	50 x 6
TC082	50 x 6.3
TC090	50 x 7



Bare stranded copper cable

Part no.	Cross sectional area (mm)
Soft drawn stranded copper cable	
CB006	6
CB016	16
CB025	25
CB035	35
CB050-FU	50
CB070	70
CB095	95
CB120	120
CB150-FU	150
CB185	185
CB240	240
CB300-FU	300
CB400-FU	400
Tinned soft drawn stranded copper cable	
CB070-T	70
Hard drawn stranded copper cable	
CB071	70



Bare solid circular

Part no.	Diameter (A) (mm)
Copper conductor	
CD035	Ø 8
Aluminium conductor	
CD080	Ø 8



Tinned copper tape

Part no.	Conductor size (X x Y) (mm)
TC225-FU	12.5 x 1.5
TC230	25 x 3
TC230-UL	1" x 1/8"
TC239	30 x 2
TC240	25 x 6
TC245	31 x 3
TC260	38 x 5
TC280	50 x 6



Bare aluminium tape

Part no.	Conductor size (X x Y) (mm)
TA005	12.5 x 1.5
TA020	20 x 3
TA030	25 x 3
TA042	30 x 3
TA040	25 x 6
TA068	40 x 6
TA080	50 x 6

Conductors

Bimetallic cable & flexible braid



Bimetallic cable

Part no.	AWG	Cross-sectional area (mm ²)	Nominal diameter (mm)	Stranding no. / AWG	Weight per metre (kg)
BC001	1/0	50	Ø 9.96	3/5	0.41
BC002	1	40	Ø 8.86	3/6	0.33
BC003	2	35	Ø 7.90	3/7	0.26
BC004	3	25	Ø 7.04	3/8	0.21
BC005	4	20	Ø 6.27	3/9	0.16
BC006	5	16	Ø 5.59	3/10	0.13
BC007	6	10	Ø 4.42	3/12	0.08
BC008	300	150	Ø 15.6	7/4	1.22
BC009	4/0	120	Ø 13.9	7/5	0.97
BC010	3/0	95	Ø 12.3	7/6	0.77
BC011	2/0	70	Ø 11.00	7/7	0.61
BC012	1/0	50	Ø 9.78	7/8	0.48
BC013	1	40	Ø 8.71	7/9	0.38
BC014	2	35	Ø 7.77	7/10	0.30



Flexible flat copper braid

Part no.	Overall nominal size (X x Y) (mm)
Bare flat braid	
BD020	12 x 1
BD025	15 x 1.5
BD026	19 x 2.5
BD028	25 x 3
BD030	25 x 3.5
BD031	30 x 5
BD027	32 x 6
BD032	37 x 6
BD033	45 x 6
BD034	50 x 8
Tinned flat braid	
BD020-T	12 x 1
BD025-T	15 x 1.5
BD026-T	19 x 2.5
BD028-T	25 x 3
BD035	25 x 3.5
BD031-T	30 x 5
BD027-T	32 x 6
BD032-T	37 x 6
BD033-T	45 x 6
BD034-T	50 x 8



Flexible circular copper braid

Part no.	Overall nominal diameter (mm)
Bare circular braid	
BD006-FU	Ø 4.2
BD010-FU	Ø 5.4
BD016-FU	Ø 7
BD025-FU	Ø 8.5
BD035-FU	Ø 10.5
BD050-FU	Ø 11.5
BD070-FU	Ø 14.5
BD095-FU	Ø 16
Tinned circular braid	
BD006-FU-T	Ø 4.2
BD010-FU-T	Ø 5.4
BD016-FU-T	Ø 7
BD025-FU-T	Ø 8.5
BD035-FU-T	Ø 10.5
BD050-FU-T	Ø 11.5
BD070-FU-T	Ø 14.5
BD095-FU-T	Ø 16

Conductors

Hand drawn bar, PVC & LSOH covered conductors

2



Hard drawn copper bar

Part no.	Overall nominal size (X x Y) (mm)
Bare hard drawn bar	
BA205	25 x 3
BA210	25 x 6
BA225	38 x 6
BA230	50 x 6
BA235	50 x 10
BA240	75 x 6
BA250-FU	100 x 6



PVC covered aluminium tape

Part no.	Conductor Size(X x Y) (mm)	Colour range
TA100	12.5 x 1.5	Black
TA104	20 x 3	Black
TA105	25 x 3	Black
TA110	25 x 3	Green
TA115	25 x 3	Grey
TA120	25 x 3	Stone
TA125	25 x 3	White
TC130/N	25 x 3	Brown



PVC covered copper tape

Part no.	Conductor Size(X x Y) (mm)	Colour range
TC100	12.5 x 1.5	Black
TC105/N	25 x 3	Black
TC110/N	25 x 3	Green
TC110/50	25 x 3	Green
TC115/N	25 x 3	Grey
TC120/N	25 x 3	Stone
TC125/N	25 x 3	White
TC130/N	25 x 3	Brown
TC140/N	25 x 6	Green
TC145/N	50 x 6	Green



LSOH covered copper tape

Part no.	Conductor Size(X x Y) (mm)	Colour range
TC910/N	25 x 3	Green
TC910/50	25 x 3	Green
TC940/N	25 x 6	Green
TC980/N	50 x 6	Green



PVC covered copper solid circular

Part no.	Colour range
CD036	Black
CD038	Grey
CD039	Stone
CD040	White
CD041	Brown

NB all conductor diameters 8 mm



Green & yellow PVC insulated copper tape

Part no.	Conductor Size (X x Y) (mm)
TC111/N	25 x 3

Green & yellow PVC insulated stranded copper cable

Part no.	Cross-sectional area (mm²)
CC016	16
CC025	25
CC035	35
CC050	50
CC070	70
CC095	95
CC120-FU	120
CC150-FU	150
CC185	185
CC240	240
CC300	300
CC400-FU	400



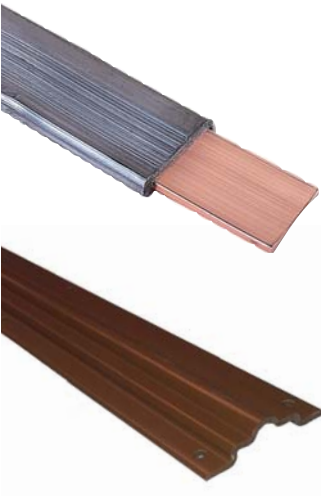
PVC covered aluminium solid circular

Part no.	Colour range
CD081	Black
CD083	Grey
CD084	Stone
CD085	White
CD086	Brown

NB all conductor diameters 8 mm

Conductors

Lead covered conductor & conductor guards



Lead covered copper tape

Part no.	Conductor Size (X x Y) (mm)
TC330	25 x 3

PVC protective down conductor guard

Part no.	Length (mm)	Colour range	Material
GC205	3000		Galvanized Steel
GC215	3000	Black	PVC
GC220	3000	Grey	PVC
GC225	3000	Stone	PVC
GC230	3000	White	PVC
GC230	3000	Brown	PVC

Air termination

Air rods, brackets, rod to conductor coupling, multiple point & strike pad

3



Air rod

Part no.	Rod length (mm)	Rod diameter (mm)	Thread size	Conductor material
For use with flat type				
RA215	500	Ø 15	M16	Copper
RA225	1000	Ø 15	M16	Copper
RA230	1500	Ø 15	M16	Copper
RA240	2000	Ø 15	M16	Copper
RA250-FU	3000	Ø 15	M16	Copper
RA015	500	Ø 15	M16	Aluminium
RA025	1000	Ø 15	M16	Aluminium
RA030	1500	Ø 15	M16	Aluminium
RA040	2000	Ø 15	M16	Aluminium
RA050	3000	Ø 15	M16	Aluminium
For use with solid circular conductor				
RA400-FU	500	Ø 10	M10	Copper
RA402	1000	Ø 10	M10	Copper
RA080	500	Ø 10	M10	Aluminium
RA085	1000	Ø 10	M10	Aluminium
For use with solid circular conductor				
RA215	500	Ø 15	M10	Copper
RA225	1000	Ø 15	M10	Copper
RA230	1500	Ø 15	M10	Copper
RA240	2000	Ø 15	M10	Copper
RA250-U	3000	Ø 15	M10	Copper



Air rod base

Part no.	Air rod diameter (mm)	Maximum conductor width (mm)	Conductor material
SD105-H	Ø 15	25	Copper
SD003-H	Ø 15	25	Aluminium
SD120	Ø 15	50	Copper



Flat saddle

Part no.	Rod diameter (mm)	Conductor diameter (mm)	Conductor material
SD155	Ø 15	50	Copper
SD160	Ø 15	70	Copper
SD165	Ø 15	95	Copper



Ridge saddle

Part no.	Rod diameter (mm)	Conductor diameter (mm)	Conductor material
SD115	Ø 15	31	Copper



Rod brackets

Part no.	Rod diameter (mm)	Rod material
BR105	Ø 15	Copper
BR005	Ø 15	Aluminium



Rod to conductor coupling

Part no.	Rod diameter (mm)	Rod material
For use with flat tape conductor		
CG600	Ø 15	Copper
CG500	Ø 15	Aluminium
For use with stranded conductor		
CG705	Ø 15	Copper
CG710	Ø 15	Aluminium



Multiple Point

Part no.	Rod diameter (mm)	Rod material
RA600	Ø 15	Copper
RA500	Ø 15	Aluminium



Strike pad

Part no.	Rod material
PL010	Copper
PL005	Aluminium
SM010	Copper stem for use with PL010

Horizontal or vertical air rod base

Part no.	Rod diameter (mm)	Thread Size	Conductor material
Vertically mounted			
SD307	Ø 8	M10	Copper
SD007	Ø 8	M10	Aluminium
Horizontally mounted			
SD305	Ø 8	M10	Copper
SD005	Ø 8	M10	Aluminium



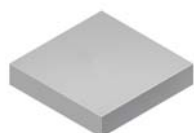
Air termination

Free-standing air termination



Free-standing interception pole

Pole height Part no.	Pole (mm)	Conductor diameter (mm)	Pole make up
912000-FU	3	Ø 10-42	2 pIECe
912001-FU	3.5	Ø 10-42	2 pIECe
912002-FU	4	Ø 10-42	2 pIECe
912003-FU	4.5	Ø 10-42	2 pIECe
912004-FU	5	Ø 10-42	2 pIECe
912005-FU	5.5	Ø 10-42	2 pIECe
912006-FU	6	Ø 10-60	3 pIECe
912007-FU	6.5	Ø 10-60	3 pIECe
912008-FU	7	Ø 10-60	3 pIECe
912009-FU	7.5	Ø 10-60	3 pIECe
912010-FU	8	Ø 10-60	3 pIECe
912011-FU	9	Ø 10-60	3 pIECe
912013-FU	10	Ø 10-60	3 pIECe



Base frame

Part no.	Frame Type	Dimension (mm)
499000-FU	Square base	650 x 650
499005-FU	Tripod base	1350 x 1350
499006-FU	Tripod base	1850 x 1850
499007-FU	H shaped base	1850 x 1850

Free-standing interception pole base

Part no.	Description
499100-FU	Square concrete base 300 x 300 x 60 mm
499101-FU	Square concrete base 300 x 300 x 80 mm
103103-FU	Circular concrete base with M16 insert
103101-FU	Circular concrete base with M16 insert
103110-FU	Circular concrete base with M16 insert
103118-FU	Circular concrete base with M16 insert

Accessories

103102-FU	Protective polyethylene tray for circular concrete blocks
919828-FU	Stainless steel clamp for connecting 25 x 3 mm copper tape to 5-19 mm thickness steel

Conductor network

Metallic conductor clips

4



Swing lid DC tape clip

Part no.	Conductor size (mm)
For use with bare copper	
CP210-H	25 x 3
CP220-H	25 x 6
For use with bare aluminium	
CP110-H	25 x 3
CP120-H	25 x 6



Adjustable DC tape clip

Part no.	Conductor size (mm)
For use with bare copper	
CP230-H	31 x 3 and 31 x 6
CP240-H	38 x 3, 38 x 6 and 40 x 6
CP260-H	50 x 3 and 50 x 6



Adjustable DC tape clip

Part no.	Conductor size (mm)
For use with bare copper	
CP205	20 x 3
CP216	25 x 4
CP227	30 x 5
CP245	38 x 5
CP241	40 x 4
CP256	50 x 4
For use with PVC covered copper	
CP215-H	25 x 3
CP225	25 x 6
CP265	50 x 6
CP256	50 x 4
For use with lead covered copper	
CP305	25 x 3
For use with bare aluminium	
CP105	20 x 3
CP125	50 x 6
For use with PVC covered aluminium	
CP115	25 x 3
CP130	50 x 6



Tape clip

Part no.	Conductor size (mm)
For use with bare copper	
CP510	20 x 3
CP515	25 x 3
For use with bare aluminium	
CP405	20 x 3
CP410	25 x 3
CP415	25 x 6
For use with PVC covered tape	
CP517	25 x 3



One hole cable clip

Part no.	Conductor size (mm)	Conduvtor material
For use with solid circular conductor		
CP905	Ø 8	Copper
CP925	Ø 8	Aluminium
CP915	Ø 10*	Copper
CP935	Ø 10*	Aluminium
For use with stranded conductor		
CP910	50 mm ²	Copper
CP915	70 mm ²	Copper
CP920	95 mm ²	Copper

*PVC covered 8 mm conductor



Heavy duty cast cable saddle

Part no.	Conductor size (mm)	Conduvtor material
For use with solid circular conductor		
CP805	Ø 8	Copper
CP806	Ø 8	Aluminium
CP815	Ø 10*	Copper
CP816	Ø 10*	Aluminium
For use with stranded conductor		
CP810	50 mm ²	Copper
CP815	70 mm ²	Copper
CP835	95 mm ²	Copper
CP855	120 mm ²	Copper

*PVC covered 8 mm conductor



Non-metallic DC tape clip

Part no.	Conductor size (mm)	Colour
For use with bare tape		
CP005	20 x 3	Brown
CP010	20 x 3	Grey
CP015	25 x 3	Brown
CP020	25 x 3	Grey
CP060*	38 x 5	Brown
CP065*	50 x 6	Brown
For use with PVC covered tape		
CP025	25 x 3	Brown
CP030	25 x 3	Black
CP035	25 x 3	Green
CP040	25 x 3	Grey
CP045	25 x 3	Stone
CP050	25 x 3	White

Conductor network

Metallic, glue down & self adhesive non-metallic conductor clips



Non-metallic push-in clip

Part no.	Conductor size (mm)	Colour
For use with bare solid circular conductor		
CP887	Ø 8	Brown
CP872	Ø 8	Grey
For use with PVC covered solid circular conductor		
CP886	Ø 10*	Brown
CP861	Ø 10*	Black
CP871	Ø 10*	Grey
CP876	Ø 10*	Stone
CP881	Ø 10*	White

*PVC covered 8 mm conductor



Self adhesive DC tape clip

Part no.	Conductor size (mm)	Colour
For use with bare tape		
CA015-FU	25 x 3	Brown
CA020-FU	25 x 3	Grey
For use with PVC covered tape		
CA025-FU	25 x 3	Brown
CA030-FU	25 x 3	Black
CA040-FU	25 x 3	Grey
CA045-FU	25 x 3	Stone
CA050-FU	25 x 3	White



Glue down DC tape clip

Part no.	Conductor size (mm)	Colour
For use with bare tape		
GD015	25 x 3	Brown
GD020	25 x 3	Grey
For use with PVC covered tape		
GD025	25 x 3	Brown
GD030	25 x 3	Black
GD040	25 x 3	Grey
GD045	25 x 3	Stone
GD050	25 x 3	White



Self adhesive push-in clip

Part no.	Conductor size (mm)	Colour
For use with bare solid circular conductor		
CA872	Ø 8	Grey
CA887	Ø 8	Brown
For use with PVC covered solid circular conductor		
CA861	Ø 10*	Black
CA871	Ø 10*	Grey
CA876	Ø 10*	Stone
CA881	Ø 10*	White
CA886	Ø 10*	Brown

*PVC covered 8 mm conductor



Glue down push-in clip

Part no.	Conductor size (mm)	Colour
For use with bare solid circular conductor		
GD887	Ø 8	Brown
GD872	Ø 8	Grey
For use with PVC covered solid circular conductor		
GD861	Ø 10*	Black
GD871	Ø 10*	Grey
GD876	Ø 10*	Stone
GD881	Ø 10*	White
GD886	Ø 10*	Brown

Conductor network

Solvent weldable & heat weldable non-metallic conductor clips & accessories



Solvent weldable DC tape clip

Part no.	Conductor size (mm)	Colour
For use with bare tape		
CW015-FU	25 x 3	Brown
CW020-FU	25 x 3	Grey
For use with PVC covered tape		
CW025-FU	25 x 3	Brown
CW030-FU	25 x 3	Black
CW040-FU	25 x 3	Grey
CW045-FU	25 x 3	Stone
CW050-FU	25 x 3	White



Heat weldable DC clips for FPO roofing

Part no.	Part no. branded	Conductor Size (mm)	Colour
For use with bare tape			
–	HW415-FU	25 x 3	Brown
HW421	HW420-FU	25 x 3	Grey
For use with PVC covered tape			
–	HW425-FU	25 x 3	Brown
–	HW430-FU	25 x 3	Black
HW441	HW440-FU	25 x 3	Grey
–	HW445-FU	25 x 3	Stone
–	HW450-FU	25 x 3	White

Clips for solid circular conductor available to special order



Solvent weldable push-in clip

Part no.	Conductor size (mm)	Colour
For use with bare solid circular conductor		
CW887	Ø 8	Brown
CW872	Ø 8	Grey
For use with PVC covered solid circular conductor		
CW886	Ø 10*	Brown
CW871	Ø 10*	Grey

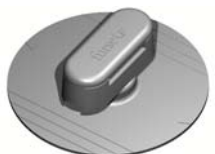
*PVC covered 8 mm conductor



Heat weldable push-in clip PVC roofing

Part no.	Conductor size (mm)	Colour
For use with bare solid circular conductor		
HW887	Ø 8	Brown
HW872	Ø 8	Grey
For use with PVC covered solid circular conductor		
HW886	Ø 10*	Brown
HW871	Ø 10*	Grey

*PVC covered 8 mm conductor



Heat weldable clips for PVC roofing

Part no.	Part no. branded	Conductor Size (mm)	Colour
For use with bare tape			
–	HW015-FU	25 x 3	Brown
HW021	HW020-FU	25 x 3	Grey
For use with PVC covered tape			
–	HW025-FU	25 x 3	Brown
–	HW030-FU	25 x 3	Black
HW041	HW040-FU	25 x 3	Grey
–	HW045-FU	25 x 3	Stone
–	HW050-FU	25 x 3	White

Clips for solid circular conductor available to special order



Non-metallic clip accessories

Part no.	Description
CW905	Universal welding solvent - 500 ml spray applicator
DT100	Dressing tool - For use with DC tape clips



Bitumen felt roof clip

Part no.	Conductor size (mm)	Colour
For use with bare tape		
FP015	25 x 3	Brown
FP020	25 x 3	Grey
For use with PVC covered tape		
FP025	25 x 3	Brown
FP030	25 x 3	Black
FP035	25 x 3	Green
FP040	25 x 3	Grey
FP045	25 x 3	Stone
FP050	25 x 3	White



Heat weldable DC clips for TPO roofing

Part no.	Part no. branded	Conductor Size (mm)	Colour
For use with bare tape			
–	HW315-FU	25 x 3	Brown
HW321	HW320-FU	25 x 3	Grey
For use with PVC covered tape			
–	HW325-FU	25 x 3	Brown
–	HW330-FU	25 x 3	Black
HW341	HW340-FU	25 x 3	Grey
–	HW345-FU	25 x 3	Stone
–	HW350-FU	25 x 3	White

Clips for solid circular conductor available to special order

Conductor network

Standing seam roof fixings, holdfasts, puddle flange & conductor clamps



Standing seam roof fixing with square tape clamp

Part no.	Conductor size (mm)	Material
SC105-H	25 x 3	Copper
SC005-H	25 x 3	Aluminium



Slate holdfast with non-metallic push-in clip

Part no.	Conductor size (mm)	DC Clip Colour
HF176	Ø 8	Brown
HF191	Ø 8	Grey



Standing seam roof fixing with non-metallic DC tape clip

Part no.	Conductor size (mm)	Colour	Material	Weight each (kg)
Non-metallic clip for use with bare tape				
SC015	25 x 3	Brown	Copper	0.076
SC020	25 x 3	Grey	Aluminium	0.076
Metallic clip for use with bare tape				
SC210-H	25 x 3	—	Copper	0.08
SC110-H	25 x 3	—	Aluminium	0.07
Metallic clip for use with PVC covered tape				
SC215-H	25 x 3	—	Copper	0.09



Glazing bar holdfast

Part no.	Maximum glazing bar width (mm)	Conductor Material
HF705	12	Copper
HF710	12	Aluminium



Back plate holdfast stem

Part no.	Conductor material
HF320	Copper
HF325-FU	Aluminium



Pyramid flange

Part no.	Conductor Material
PF105	Copper
PF005	Aluminium



Square tape clamp

Part no.	Conductor size (mm)	Conductor material
CT105-H	25 x 3	Copper
CT110-H	25 x 6	Copper
CT115-H	50 x 6	Copper
CT005-H	25 x 3	Aluminium
CT010-H	25 x 6	Aluminium



Pyramid holdfast

Part no.	Conductor size (mm)
HF975	Ø 8 mm solid circular



Slate holdfast with non-metallic DC tape clip

Part no.	Conductor size (mm)	DC Clip Colour
For use with bare tape		
HF015	25 x 3	Brown
HF020	25 x 3	Grey
For use with PVC covered tape		
HF025	25 x 3	Brown
HF030	25 x 3	Black
HF040	25 x 3	Grey
HF045	25 x 3	Stone



Crossover tape clamp

Part no.	Conductor size (mm)	Conductor material
CX105-H	25 x 3	Copper
CX005-H	25 x 3	Aluminium



Cable to tape square clamp

Part no.	Conductor size (mm)	Conductor material
CT125	25 x 3 mm to 50 mm ²	Copper
CT130	25 x 3 mm to 70 mm ²	Copper
CT135	25 x 3 mm to 95 mm ²	Copper

Conductor network

Conductor clamps, bimetallic connectors, expansion braid bond & oxide inhibitor

4



Square stranded cable clamp

Part no.	Conductor size (mm)	Conductor material
CR810	50	Copper
CR815	70	Copper
CR820	95	Copper



Test clamp

Part no.	Conductor size (mm)	Conductor material
CN305	Ø 8	Copper
CN310	Ø 8	Aluminium



Mini square clamp

Part no.	Conductor size (mm)	Conductor material
CS605	Ø 8	Copper
CS610	Ø 8	Aluminium



Sqaure test clamp

Part no.	Conductor size (mm)	Conductor material
CR855	50	Copper
CR860	70	Copper
CR865	95	Copper



Tee clamp

Part no.	Conductor size (mm)	Conductor material
CS505	Ø 8	Copper
CS510	Ø 8	Aluminium



Bimetallic connector

Part no.	Conductor size (mm)
CN910	25 x 3 mm aluminium tape to 25 x 3 mm copper tape
CN910-UL	1½" x ⅛" aluminium tape to 1" x ⅛" copper tape
CN915	8 mm Ø aluminium conductor to 8 mm Ø copper conductor
CN920	8 mm Ø aluminium conductor to 25 x 3 mm copper tape
CN925	25 x 3 mm aluminium tape to 25 x 3 mm copper tape



Jointing clamp

Part no.	Conductor size (mm)	Conductor material
CS405	Ø 8	Copper
CS410	Ø 8	Aluminium



Test / Junction clamp

Part no.	Conductor size (mm)	Conductor material
CN105-H	26 x 8	Copper
CN005*	26 x 8	Aluminium



Oxide inhibiting compound

Part no.	Description
CM005	Plastic 8 oz bottle



Sqaure test clamp

Part no.	Description	Conductor material
BN101	Single length	Copper
BN001	Single length	Aluminium
BN102	Cross-over	Copper
BN002	Cross-over	Aluminium



Plate type test clamp

Part no.	Conductor size (mm)	Conductor material
CT405	26 x 12 max	Copper



Screwdown test clamp

Part no.	Conductor size (mm)	Conductor material
CT305	26 x 8 max	Copper

Accessories

5



Countersunk wood screws

Part no.	Size	Material
SW105	1½" x No.10	Zinc plated steel
SW110	1½" x No.12	Zinc plated steel
SW005	1½" x No.10	Brass
SW010	1½" x No.12	Brass



Roundhead wood screws

Part no.	Size	Material
SW405	1½" x No.10	Zinc plated steel
SW305	1½" x No.10	Brass



Plastic wall plugs

Part no.	Size	Colour
PS305	No.10	Red
PS310	No.12	Brown



Hexagon head set screws

Part no.	Size	Material
SS635	M10 x 25	Phosphor bronze
SS640	M10 x 35	Phosphor bronze
SS650	M12 x 25	Phosphor bronze
SS655	M12 x 35	Phosphor bronze
SS165	M8 x 16	Brass
SS140	M10 x 25	Brass
SS145	M10 x 35	Brass
SS150	M12 x 25	Brass
SS155	M12 x 35	Brass



Hexagon nuts

Part no.	Size	Material
NU367	M10	Phosphor bronze
NU370	M12	Phosphor bronze
NU165	M6	Brass
NU166	M8	Brass
NU167	M10	Brass
NU170	M12	Brass
NU265	M6	Stainless Steel 316
NU266	M8	Stainless Steel 316
NU267	M10	Stainless Steel 316
NU270	M12	Stainless Steel 316



Countersunk wood screws

Part no.	Size (mm)	Material
RV105	5 x 12	Copper
RV110	5 x 20	Copper
RV005	5 x 12	Aluminium
RV010	5 x 20	Aluminium



Countersunk wood screws

Part no.	Size
DL005	No.10
DL010	No.12



Plain washers

Part no.	Size (mm)	Material
WR365	6	Phosphor bronze
WR367	10	Phosphor bronze
WR370	12	Phosphor bronze
WR165	6	Brass
WR175	8	Brass
WR167	10	Brass
WR170	12	Brass



Spring washers

Part no.	Size (mm)	Material
WS365	6	Phosphor bronze
WS367	10	Phosphor bronze
WS370	12	Phosphor bronze



Roundhead copper nails

Part no.	Size (mm)	Material
NA005	50	Copper



Insulating tape

Part no.	Size
TP120-FU	25 mm x 33 m



Denso tape

Part no.	Size (mm)
TD005	50 mm x 10 m



Silfos

Part no.	Coil size	Thickness
NA005	50 mm x 8 m	0.12 m



Tinmans solder

Part no.	Material
SA105	60% tin, 40% lead



Flux

Part no.	Material
SA115	Flux

Earth electrodes

Earth rods, seal, hammer, & rig

6



Threaded copperbond earth rod

Part no.	Nominal diameter (")	Length (mm)
RB105	Ø ½	1200
RB110	Ø ½	1500
RB115	Ø ½	1800
RB125	Ø ½	2400
RB205-FU	Ø ⅝	1200
RB210	Ø ⅝	1500
RB215	Ø ⅝	1800
RB220-FU	Ø ⅝	2100
RB225	Ø ⅝	2400
RB235	Ø ⅝	3000
RB305	Ø ¾	1200
RB310	Ø ¾	1500
RB315	Ø ¾	1800
RB320-FU	Ø ¾	2100
RB325	Ø ¾	2400
RB335	Ø ¾	3000

Fittings

Part no.	Type (")
CG170	½ Coupling
CG270	⅝ Coupling
CG370	¾ Coupling
ST100	½ Driving stud
ST200	⅝ Driving stud
ST300	¾ Driving stud

Earth rod seal

Part no.	Type
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Earth rod seal assembly

ES300	Earth rod seal and membrane seal
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Earth rod seal pack

ES300-12	Seal pack for ½" (Ø 12.7 mm) Copperbond rod
ES300-58	Seal pack for ⅝" (Ø 14.2 mm) Copperbond rod
ES300-34	Seal pack for ¾" (Ø 17.2 mm) Copperbond rod
ES300-15	Seal pack for Ø 15 mm solid copper rod
ES300-16	Seal pack for Ø 16 mm solid copper rod
ES300-20	Seal pack for Ø 20 mm solid copper rod

Earth rod seal tube

ES310-03	Seal tube, 300 mm length
ES310-05	Seal tube, 500 mm length
ES310-10	Seal tube, 1000 mm length
ES310-15	Seal tube, 1500 mm length
ES310-20	Seal tube, 2000 mm length
ES310-30	Seal tube, 3000 mm length

Accessory spanner set

ES320	Membrane seal torque spanner set
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Unthreaded copperbond earth rod

Part no.	Diameter (mm)	Length (mm)
RB005	Ø 9.0	1200
RB103	Ø 12.7	1200
RB107	Ø 12.7	1500
RB116	Ø 12.7	1800
RB126	Ø 12.7	2400
RB203	Ø 14.2	1200
RB213	Ø 14.2	1500
RB216	Ø 14.2	1800
RB217	Ø 14.2	2000
RB223	Ø 14.2	2100
RB226	Ø 14.2	2400
RB236	Ø 14.2	3000
RB306	Ø 17.2	1200
RB313	Ø 17.2	1500
RB316	Ø 17.2	1800
RB317	Ø 17.2	2000
RB323	Ø 17.2	2100
RB326	Ø 17.2	2400
RB336	Ø 17.2	3000

Fittings

Part no.	Type
CG177	12.7 mm Coupling
CG277	14.2 mm Coupling
CG377	17.2 mm Coupling
ST107	12.7 mm Driving head
ST207	14.2 mm Driving head
ST307	17.2 mm Driving head

Earth rod hammer

Part no.	Description
HM005	Atlas Copco Cobra TT petrol driven hammer
HM010	Earth rod adapter (Suitable for ⅝" earth rods)



Hammer rig

Part no.	Description
HM105	Hammer rig

Earth electrodes

Earth rods, inspection pits, plate, lattice, backfill materials & resistance test equipment



Solid copper and stainless steel earth rod

Part no.	Diameter (mm)	Length (mm)
Solid copper rod		
RC010	Ø 15	1200
RC011	Ø 15	1500
RC012	Ø 15	3000
RC015	Ø 20	1200
RC016	Ø 20	1500
RC017	Ø 20	3000
Stainless steel rod		
RS005	Ø 16	1200
RS011	Ø 16	1500
RS012	Ø 16	3000
RS016	Ø 20	1500
RS017	Ø 20	3000

Fittings

Part no.	Type
ST010	15 mm hardened steel driving stud for copper/stainless steel rod
ST015	20 mm hardened steel driving stud for copper/stainless steel rod
CG013	Coupling dowel for 15 mm & 20 mm copper rod
CG005	Coupling dowel for 16 mm & 20 mm stainless steel rod
SP010	15 mm hardened steel spike for copper/stainless steel rod
SP015	20 mm hardened steel spike for copper/stainless steel rod

UL Kits

Part no.	Diameter	Length
Stainless steel rod		
RC010-KIT	Ø 15 mm	8 ft (2440 mm)
RC015-KIT	Ø 16 mm	8 ft (2440 mm)
Stainless steel rod		
RS005-KIT	Ø 16 mm	8 ft (2440 mm)

FurseCEM® conductive aggregate

Part no.	Description
CM025	FurseCEM®
CM030	FurseCEM® (supplied with cement)

Bentonite moisture retaining clay

Part no.	Description
CM015	Bentonite powder 25kg
CM020	Bentonite granules 25kg



Lightweight inspection pit

Part no.	Description
PT205	Lightweight inspection pit with grey polymer lid
PT309-FU	Lightweight inspection pit with black (unbranded) polymer lid
PT110*	Lightweight inspection pit with concrete lid
PT004	5 hole earth bar

Accessories for polymer lid

AK005	6 mm Allen key
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Accessories for concrete lid

JH100	M8 x 100 mm long mild steel 'J' bolt lifting hook
AS100	M8 x 60 stainless steel Allen caphead screw (2 per lid)



Concrete inspection pit

Part no.	Description
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Earth bars for concrete inspection pit

PT005	Concrete inspection pit
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Accessories

PT006	5 hole earth bar
PT007	7 hole earth bar



Earth plate (solid copper)

Part no.	Size (mm)
PE005	600 x 600 x 1.5
PE015	900 x 900 x 1.5
PE010	600 x 600 x 3
PE020	900 x 900 x 3



Earth mat (lattice copper)

Part no.	Size (mm)
PE110	600 x 600 x 3
PE120	900 x 900 x 3



Digital earth resistance tester

Part no.	Size (mm)
DET14C	Clamp earth resistance tester
DET3TC	Digital earth resistance tester
DET4TD2	Digital earth resistance tester
DET2/2	Digital earth resistance tester



Earth bonds & clamps

Mechanical clamps



Rod to tape clamp (type A)

Part no.	Nominal rod diameter (") , (mm)		Max. conductor (mm)
CR105	Ø ½	Ø 12.7	26 x 12
CR105	Ø ⅝	Ø 16	26 x 12
CR105	Ø ¾	Ø 20	26 x 10
CR108	Ø ⅝	Ø 16	30 x 2
CR108	Ø ¾	Ø 20	30 x 2
CR110	Ø ⅝	Ø 16	40 x 12
CR115	Ø ⅝	Ø 16	51 x 8
CR125	Ø ¾	Ø 20	51 x 12
CR130	Ø ½	Ø 12.7	26 x 20
CR130	Ø ⅝	Ø 16	26 x 18
CR130	Ø ¾	Ø 20	26 x 10
CR130	Ø 1	Ø 25	26 x 10



Rod to tape clamp (type B)

Part no.	Nominal rod diameter (") , (mm)		Rod type
CR205	Ø ⅝	Ø 9.5	Copperbond
CR215	Ø ⅝	Ø 16	Copperbond
CR220	Ø ⅝	Ø 15	Solid copper
CR225	Ø ¾	Ø 20	Copperbond
CR230	Ø ¾	Ø 20	Solid copper



Rebar clamp

Part no.	Conductor size (mm)	Rebar diameter (mm)	Conductor material
BN150	Ø 8	Ø 8-18	Copper
BN155	Ø 8	Ø 18-38	Copper

7



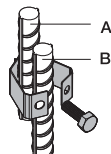
Rod to tape clamp (type G)

Part no.	Nominal rod diameter (") , (mm)		Max. conductor (mm)
CR505Ø	Ø ⅝	Ø 9.5	6-35
CR510-FU*	Ø ½	Ø 12.7	16-50
G5	Ø ⅝	Ø 16	5.2-33.6
CR515*	Ø ⅝	Ø 16	16-70
G6	Ø ¾	Ø 20	5.2-33.6
CR520*	Ø ¾	Ø 20	35-95
CR525	Ø 1	Ø 25	70-150



Rebar to rebar connecting clip

Part no.	Max. rebar diameter (A) (mm)	Min. rebar diameter (B) (mm)
RR812	Ø 8	Ø 12
RR1616	Ø 16	Ø 16
RR2121	Ø 20	Ø 20
RR2626	Ø 25	Ø 25
RR3232	Ø 32	Ø 32
RR3838	Ø 40	Ø 40



Rebar to conductor connecting clip

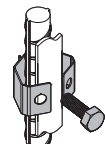
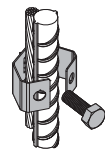
Part no.	Rebar diameter (mm)	Conductor size (mm)
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Rebar to flat tape

RC25-087095	Ø 25	25 x 3 mm
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Rebar to stranded/solid circular conductor

RC812-0850	Ø 12	50 mm² or Ø 8 mm
RC16-087095	Ø 16	Ø 8 mm dia., 50-70-95 mm²
RC20-087095	Ø 20	Ø 8 mm dia., 50-70-95 mm²
RC25-087095	Ø 25	Ø 8 mm dia., 50-70-95 mm²
RC32-087095	Ø 32	Ø 8 mm dia., 50-70-95 mm²
RC40-087095	Ø 40	Ø 8 mm dia., 50-70-95 mm²



'U' bolt rod clamp (type E)

Part no.	Nominal rod/ rebar diameter (") , (mm)		Hole centres (mm)
CR305	Ø ⅝	Ø 16	37
CR310	Ø ¾	Ø 20	37
CR315	Ø 1	Ø 25	37
CR320*	Ø ⅝	Ø 16	37
CR325	Ø 1½	Ø 38	54
CR330	Ø 2	Ø 50	64
CR326	Ø 1½	Ø 38	54

*CR320 includes additional plate to allow tape to be clamped without drilling

'U' bolt rod clamp (type GUV)

Part no.	Nominal rod/ rebar diameter (") , (mm)		Conductor range (mm)
CR700	Ø ⅝	Ø 16	16-95
CR700	Ø ¾	Ø 20	16-70
CR705	Ø ⅝	Ø 16	70-185
CR705	Ø ¾	Ø 20	70-150
CR730	Ø ⅝	Ø 16	150-300
CR730	Ø ¾	Ø 20	150-300
CR710	Ø 1	Ø 25	16-70
CR740	Ø 1	Ø 25	70-150
CR750	Ø 1	Ø 25	150-300



Earth bonds & clamps

Earth points, splitbolt connector & bonds & clamps



Single hole earth point

Part no.	Hole size (mm)	Length (mm)
PC100-FU	M8 x 15	80
PC101	M10 x 15	80
PC102	M12 x 15	80
PC103	M16 x 15	80

Part no. Description

Single hole earth point with single pre-welded tail

PC105	PC100-FU earth point with pre-welded 500 earth cable
PC106	PC101 earth point with pre-welded 500 earth cable
PC107	PC102 earth point with pre-welded 500 earth cable
PC108	PC103 earth point with pre-welded 500 earth cable



Four hole earth point

Part no.	Hole size (mm)	Length (mm)
PC110	M8 x 14	75

Part no. Description

Four hole earth point with single pre-welded tail

PC111	PC110 earth point with pre-welded 500 mm earth cable
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Two hole earth point with double pre-welded tail

PC211	PC110 earth point with pre-welded 2 x 500 mm earth cable
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Type H high strength splitbolt connector

Part no.	Conductor range				
	Main min (mm²)	Main max (mm²)	Tap min (mm²)	Tap max (mm²)	Dim (B) (mm)
8H-FU	4	10	2.5	10	4.1
4H-FU	10	16	2.5	16	5.5
2H-FU	16	25	4	25	6.9
1H-FU	25	35	4	35	8.4
10H-FU	35	50	4	50	9.7
20H-FU	35	70	4	70	11.2
30H-FU	50	95	4	95	13.6
40H-FU	50	120	6	120	14.7
350M-FU	95	185	6	185	18.2



Two hole earth point

Part no.	Hole size (mm)	Length (mm)
PC115-FU	M8 x 12	80
PC120	M8 x 12	80
PC125	M8 x 12	80

*PC125 is supplied without front plate

Part no. Description

Two hole earth point with single pre-welded tail

PC116	PC115-FU earth point with pre-welded 500 mm earth cable
PC121	PC120 earth point with pre-welded 500 mm earth cable
PC126-FU	PC125 earth point with pre-welded 500 mm earth cable

Two hole earth point with double pre-welded tail

PC216	PC115-FU earth point with pre-welded 2 x 500 mm earth cable
PC221	PC120 earth point with pre-welded 2 x 500 mm earth cable



Metalwork bond

Part no.	Max tape width (mm)	Conductor material
CS350	Ø 8	Copper
CS355	Ø 8	Aluminium



Straight setscrew cable socket

Part no.	Conductor diameter (mm)	Palm hole diameter (mm)	Conductor material
SX450	Ø 8	12	Copper
SX455	Ø 8	12	Aluminium

Earth bonds & clamps

Earth boss bonds, clamps & static earth connection points



Earth boss

Part no.	Length (mm)	Diameter (mm)	Thread size (mm)
EB0000	25	Ø 25	M8
EB1000	25	Ø 25	M8
EB0110	30	Ø 30	M8
EB1110	30	Ø 30	M8
EB0111	30	Ø 30	M10
EB1111	30	Ø 30	M10
EB0120	30	Ø 40	M8
EB1120	30	Ø 40	M8
EB0121	30	Ø 40	M10
EB1121	30	Ø 40	M10
EB0130	30	Ø 50	M8
EB1130	30	Ø 50	M8
EB0131	30	Ø 50	M10
EB1131	30	Ø 50	M10
EB0211	40	Ø 30	M10
EB1211	40	Ø 30	M10
EB0212	40	Ø 30	M12
EB1212	40	Ø 30	M12
EB0221	40	Ø 40	M10
EB1221	40	Ø 40	M10
EB0222	40	Ø 40	M12
EB1222	40	Ø 40	M12
EB0231	40	Ø 50	M10
EB1231	40	Ø 50	M10
EB0232	40	Ø 50	M12
EB1232	40	Ø 50	M12
EB0311	50	Ø 30	M10
EB1311	50	Ø 30	M10
EB0312	50	Ø 30	M12
EB1312	50	Ø 30	M12
EB0321	50	Ø 40	M10
EB1321	50	Ø 40	M10
EB0322	50	Ø 40	M12
EB1322	50	Ø 40	M12
EB0001	50	Ø 50	M10
EB1331	50	Ø 50	M10
EB0332	50	Ø 50	M12
EB1332	50	Ø 50	M12



B bond

Part no.	Max tape width (mm)	Conductor material
BN105	26	Copper
BN005	26	Aluminium
BN113	31	Copper
BN114	40	Copper
BN117	50	Copper

RWP bond

Part no.	Max tape width (mm)	Conductor material
BN115	26	Copper
BN010	26	Aluminium

Watermain bond

Part no.	Max tape width (mm)	Conductor material
BN120	26	Copper

Pipe bond

Part no.	Conductor diameter (mm)	Palm hole diameter (mm)	Conductor material
BN175	Ø 8	Ø 50-200	Copper
BN176	Ø 8	Ø 50-200	Aluminium

Pipe clamp

Part no.	Pipe diameter (") (mm)
3902	Ø ½-1 Ø 13-25
3903	Ø 1¼-2 Ø 32-50
3904	Ø 2½-3½ Ø 65-90
3905-TB	Ø 4-5 Ø 100-125
3906-TB	Ø 6 Ø 150
3907	Ø 8 Ø 200
3908	Ø 10 Ø 250
3909-TB	Ø 12 Ø 300

Eyebolt

Part no.	Nominal copperbond rod diameter (")
BT150	¾
BT160	¾

Static earth receptacle

Part no.	Conductor material
RX005	Copper



Tower earth clamp

Part no.	Conductor range (mm)	Conductor material
BN125	16-70	Copper
BN130	70-120	Copper
BN300-FU	25-50	Copper
BN305	25-50	Aluminium
BN320	120-185	Copper
BN325	185-240	Copper



Earth bonds & clamps

Flexible braid bonds & static earth clamps



Earth boss

Part no.	Overall braid dimensions (mm) (mm)	Length (mm)	Hole diameter (A) (mm)
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Copper braid

FBB-6-200-7	12 x 1	200	Ø 7
FBB-6-400-7	12 x 1	400	Ø 7
FBB-10-200-7	15 x 1.5	200	Ø 7
FBB-10-400-7	15 x 1.5	400	Ø 7
FBB-16-200-9	19 x 2.5	200	Ø 9
FBB-16-400-9	19 x 2.5	400	Ø 9
FBB-25-200-11	25 x 3	200	Ø 11
FBB-25-400-11	25 x 3	400	Ø 11
BN505	25 x 3.5	200	Ø 11
BN510	25 x 3.5	400	Ø 11
FBB-50-200-11	30 x 5	200	Ø 11
FBB-50-400-11	30 x 5	400	Ø 11
FBB-70-200-13	32 x 6	200	Ø 13
FBB-70-400-13	32 x 6	400	Ø 13
FBB-95-200-13	37 x 6	200	Ø 13
FBB-95-400-13	37 x 6	400	Ø 13
FBB-120-200-17	45 x 6	200	Ø 17
FBB-120-400-17	45 x 6	400	Ø 17
FBB-150-200-17	50 x 8	200	Ø 17
FBB-150-400-17	50 x 8	400	Ø 17

Tinned copper braid

FBB-6-200-7-T	12 x 1	200	Ø 7
FBB-6-400-7-T	12 x 1	400	Ø 7
FBB-10-200-7-T	15 x 1.5	200	Ø 7
FBB-10-400-7-T	15 x 1.5	400	Ø 7
FBB-16-200-9-T	19 x 2.5	200	Ø 9
FBB-16-400-9-T	19 x 2.5	400	Ø 9
FBB-25-200-11-T	25 x 3	200	Ø 11
FBB-25-400-11-T	25 x 3	400	Ø 11
BN505-T	25 x 3.5	200	Ø 11
BN510-T	25 x 3.5	400	Ø 11
FBB-50-200-11-T	30 x 5	200	Ø 11
FBB-50-400-11-T	30 x 5	400	Ø 11
FBB-70-200-13-T	32 x 6	200	Ø 13
FBB-70-400-13-T	32 x 6	400	Ø 13
FBB-95-200-13-T	37 x 6	200	Ø 13
FBB-95-400-13-T	37 x 6	400	Ø 13
FBB-120-200-17-T	45 x 6	200	Ø 17
FBB-120-400-17-T	45 x 6	400	Ø 17
FBB-150-200-17-T	50 x 8	200	Ø 17
FBB-150-400-17-T	50 x 8	400	Ø 17



Earth boss

Part no.	Overall braid dimensions (mm) (mm)	Length (mm)	Hole diameter (A) (mm)
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Copper braid

CBB-6-200-7	4.2	200	Ø 7
CBB-6-400-7	4.2	400	Ø 7
CBB-10-200-7	5.4	200	Ø 7
CBB-10-400-7	5.4	400	Ø 7
CBB-16-200-9	7	200	Ø 9
CBB-16-400-9	7	400	Ø 9
CBB-25-200-11	8.5	200	Ø 11
CBB-25-400-11	8.5	400	Ø 11
CBB-50-200-11	11.5	200	Ø 11
CBB-50-400-11	11.5	400	Ø 11
CBB-70-200-13	14.5	200	Ø 13
CBB-70-400-13	14.5	400	Ø 13
CBB-95-200-13	16	200	Ø 13
CBB-95-400-13	16	400	Ø 13

Tinned copper braid

CBB-6-200-7-T	4.2	200	Ø 7
CBB-6-400-7-T	4.2	400	Ø 7
CBB-10-200-7-T	5.4	200	Ø 7
CBB-10-400-7-T	5.4	400	Ø 7
CBB-16-200-9-T	7	200	Ø 9
CBB-16-400-9-T	7	400	Ø 9
CBB-25-200-11-T	8.5	200	Ø 11
CBB-25-400-11-T	8.5	400	Ø 11
CBB-50-200-11-T	11.5	200	Ø 11
CBB-50-400-11-T	11.5	400	Ø 11
CBB-70-200-13-T	14.5	200	Ø 13
CBB-70-400-13-T	14.5	400	Ø 13
CBB-95-200-13-T	16	200	Ø 13
CBB-95-400-13-T	16	400	Ø 13

Stainless steel earthing clamp

Part no.	Description	Jaw opening
SK010	Medium duty earthing clamp	15 mm
SK020	Heavy duty earthing clamp	35 mm

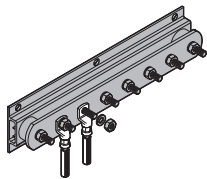


Stainless steel earthing clamp & reel

Part no.	Description	Jaw opening
SK030	Medium duty earthing clamp & reel	15 mm
SK040	Heavy duty earthing clamp & reel	35 mm

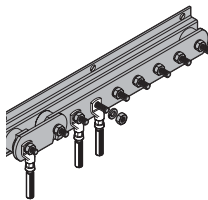


Earth bars



Earth bar

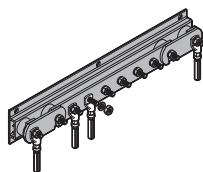
Part no.	Description)	Length (mm)
Copper earth bar		
LK245-6	6 way	400
LK245-8	8 way	500
LK245-10	10 way	650
LK245-12	12 way	750
LK245-14	14 way	850
LK245-16	16 way	950
LK245-18	18 way	1050
LK245-20	20 way	1200
LK245-22	22 way	1300
LK245-24	24 way	1400
LK245-26	26 way	1500
LK245-28	28 way	1650
LK245-30	30 way	1750
Tinned copper earth bar		
LK245-6-T	6 way	400
LK245-8-T	8 way	500
LK245-10-T	10 way	650
LK245-12-T	12 way	750
LK245-14-T	14 way	850
LK245-16-T	16 way	950
LK245-18-T	18 way	1050
LK245-20-T	20 way	1200
LK245-22-T	22 way	1300
LK245-24-T	24 way	1400
LK245-26-T	26 way	1500
LK245-28-T	28 way	1650
LK245-30-T	30 way	1750



Earth bar with single disconnecting link

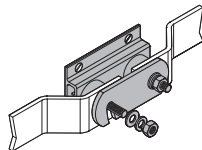
Part no.	Description)	Length (mm)
Copper earth bar		
LK243-6	6 way	475
LK243-8	8 way	575
LK243-10	10 way	725
LK243-12	12 way	825
LK243-14	14 way	925
LK243-16	16 way	1025
LK243-18	18 way	1125
LK243-20	20 way	1275
LK243-22	22 way	1375
LK243-24	24 way	1475
LK243-26	26 way	1575
LK243-28	28 way	1725
LK243-30	30 way	1825
Tinned copper earth bar		
LK243-6-T	6 way	475
LK243-8-T	8 way	575
LK243-10-T	10 way	725
LK243-12-T	12 way	825
LK243-14-T	14 way	925
LK243-16-T	16 way	1025
LK243-18-T	18 way	1125
LK243-20-T	20 way	1275
LK243-22-T	22 way	1375
LK243-24-T	24 way	1475
LK243-26-T	26 way	1575
LK243-28-T	28 way	1725
LK243-30-T	30 way	1825

Earth bars



Earth bar with twin disconnecting link

Part no.	Description	Length (mm)
Copper earth bar		
LK207-6	6 way	550
LK207-8	8 way	650
LK207-10	10 way	800
LK207-12	12 way	900
LK207-14	14 way	1000
LK207-16	16 way	1100
LK207-18	18 way	1200
LK207-20	20 way	1350
LK207-22	22 way	1450
LK207-24	24 way	1550
LK207-26	26 way	1650
LK207-28	28 way	1800
LK207-30	30 way	1900
Tinned copper earth bar		
LK207-6-T	6 way	550
LK207-8-T	8 way	650
LK207-10-T	10 way	800
LK207-12-T	12 way	900
LK207-14-T	14 way	1000
LK207-16-T	16 way	1100
LK207-18-T	18 way	1200
LK207-20-T	20 way	1350
LK207-22-T	22 way	1450
LK207-24-T	24 way	1550
LK207-26-T	26 way	1650
LK207-28-T	28 way	1800
LK207-30-T	30 way	1900



Earth bar accessories

Part no.	Description
Copper earth bar	
LK004	Swan-neck link
LK205	Disconnecting link
Tinned copper earth bar	
LK004-T	Swan-neck link
LK205-T	Disconnecting link



Insulator

Part no.	Heigh (mm)	Insert size
Insulator		
IN020	20	M6
IN030	30	M6
IN040	40	M8
IN013	50	M10
IN060	60	M10
IN070	70	M12
Insulator with 2 studs and 3 nuts		
IN005	50	M10

Compression connectors & tools



'C' shape connector

Part no.	Conductor range main (mm)	Conductor range tap (mm)	Box quantity
Copper 'C' shape connector			
CN1010	10	1.5-10	100
CN1616	16	1.5-16	100
CN2510	16-25	1.5-10	50
CN2525	25	16-25	50
CN3516	35	1.5-16	25
CN3535	35	25-35	25
CN5025	50	4-25	25
CN5050	50	35-50	25
CN7025	70	1.5-25	25
CN7035	50-70	4-35	25
CN7070	50-70	35-70	25
CN9535	95	4-35	25
CN9570	95	35-70	25
CN9595	95	70-95	25
CN120120	120	25-120	25
CN150120	150	25-120	25
CN150150	150	70-150	25
CN18595	185	16-95	25
CN185185	120-185	120-185	15
CN240120	150-240	95-120	15
CN240150	240-150	240-150	10
CN240185	240-185	240-185	10
CN240240	240-240	240-240	10
CN300120	300-120	300-120	10
CN300300	300-300	300-300	10



'C' shape connector

Part no.	Conductor range main (mm)	Conductor range tap (mm)	Box quantity
Tinned copper 'C' shape connector			
CN1010-T	10	1.5-10	100
CN1616-T	16	1.5-16	100
CN2510-T	16-25	1.5-10	50
CN2525-T	25	16-25	50
CN3516-T	35	1.5-16	25
CN3535-T	35	25-35	25
CN5025-T	50	4-25	25
CN5050-T	50	35-50	25
CN7025-T	70	1.5-25	25
CN7035-T	50-70	4-35	25
CN7070-T	50-70	35-70	25
CN9535-T	95	4-35	25
CN9570-T	95	35-70	25
CN9595-T	95	70-95	25
CN120120-T	120	25-120	25
CN150120-T	150	25-120	25
CN150150-T	150	70-150	25
CN18595-T	185	16-95	25
CN185185-T	120-185	120-185	15
CN240120-T	150-240	95-120	15
CN240150-T	240-150	240-150	10
CN240185-T	240-185	240-185	10
CN240240-T	240-240	240-240	10
CN300120-T	300-120	300-120	10
CN300300-T	300-300	300-300	10

Compression connectors & tools

Tinned copper cable lugs, connector dies & tools



Tinned copper cable lug

Part no.	Conductor range main (mm)	Screw size (mm)	Box quantity
FCT166	16	6	100
FCT168	16	8	100
FCT1610	16	10	100
FCT1612	16	12	100
FCT256	25	6	100
FCT258	25	8	100
FCT2510	25	10	100
FCT2512	25	12	100
FCT356	35	6	100
FCT358	35	8	100
FCT3510	35	10	100
FCT3512	35	12	100
FCT506	50	6	100
FCT508	50	8	100
FCT5010	50	10	100
FCT5012	50	12	100
FCT708	70	8	100
FCT7010	70	10	100
FCT7012	70	12	100
FCT7014	70	14	100
FCT7016	70	16	100
FCT958	95	8	100
FCT9510	95	10	100
FCT9512	95	12	100
FCT9514	95	14	100
FCT9516	95	16	100
FCT12010	120	10	50
FCT12012	120	12	50
FCT12014	120	14	50
FCT12016	120	16	50
FCT15010	150	10	50
FCT15012	150	12	50
FCT15014	150	14	50
FCT15016	150	16	50
FCT18512	185	12	50
FCT18514	185	14	50
FCT18516	185	16	50
FCT24012	240	12	50
FCT24014	240	14	50
FCT24016	240	16	50
FCT30012	300	12	25
FCT30014	300	14	25
FCT30016	300	16	25
FCT40012	400	12	25
FCT40014	400	14	25
FCT40016	400	16	25



'C' shape connector die

Part no.	Conductor range (main) (mm²)	Conductor range (tap) (mm²)
HT010 and HT040 tooling		
HD100	10	1.5-10
HD200	16	1.5-16
HD200	16-25	1.5-10
HD200	25	16-25
HD300	35	1.5-16
HD300	35	25-35
HD300	70	1.5-25
HD400	50	4-25
HD400	50	35-50
HD400	50-70	4-35
HD400	50-70	35-70
HD500	95	4-35
HD500	95	35-70
HD500	95	70-95
HD600	120	25-120
HD600	150	25-120
HD600	150	70-150
HD600	185	16-95
HD800	240	95-120
HT020 and HT030 tooling		
HD700	120-185	120-185
HD700	150-240	95-120



Hydraulic crimping tool

Part no.	Description
HT010	Hand operated 13 ton tool with carrying case



Hydraulic crimping head and pump

Part no.	Description
HT020	15 ton hydraulic tool with carrying case
HT030	Foot operated hydraulic pump with carrying case



Battery powered hydraulic crimping tool

Part no.	Description
HT040	Battery powered, open head 14 ton tool



Battery powered hydraulic cutting tool

Part no.	Description
HT050	Battery powered 6 ton cutting tool

Moulds & min-moulds, powders

For ease of use FurseWELD moulds and mini-moulds are assigned a price key. The price key is the middle digit of the part number, ie mould CR1-4-12810 has a price key of ‘4’.



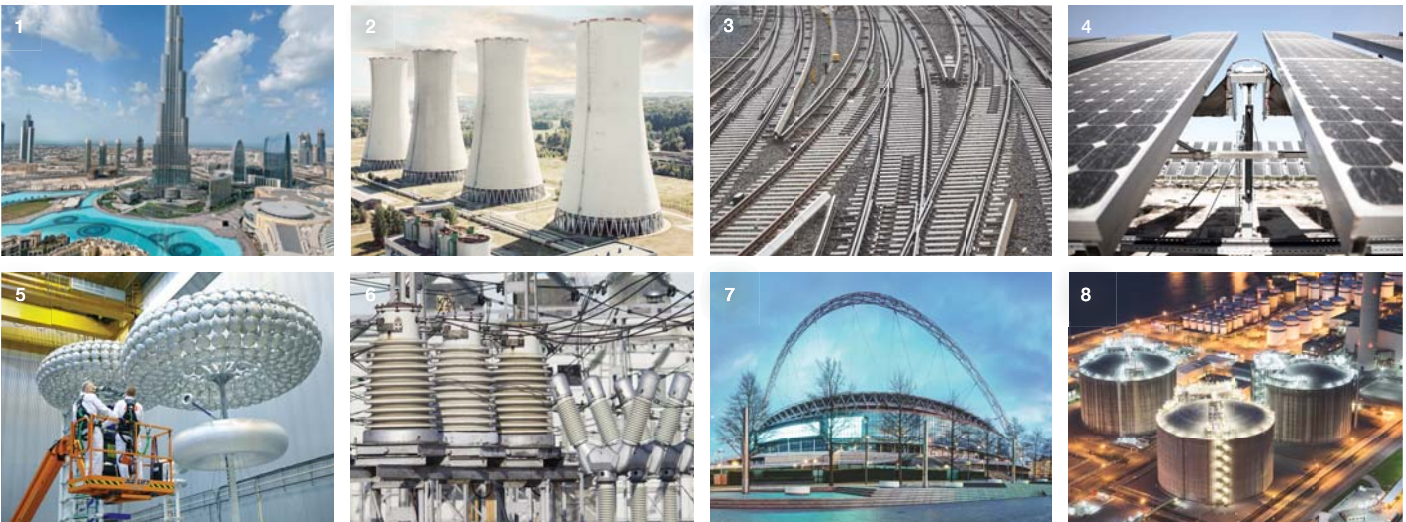
Moulds & mini-moulds	
Part no.	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Powders	
Part no.	Description
15P10	20
25P10	20
32P10	20
45P10	20
65P10	20
90P10	10
11P10	10
150P10	10
200P10	10
250P10	10



Sleeves	
Part no.	Description
S102-FU	Copper sleeve
S103	Copper sleeve
S104	Copper sleeve
S105	Copper sleeve
S106	Copper sleeve
S107	Copper sleeve
S108	Copper sleeve
S109	Copper sleeve
S110	Copper sleeve
S108A	Copper sleeve
S109A	Copper sleeve
S110A	Copper sleeve
S111A	Copper sleeve

Sharing our expertise



1 Commercial construction | 2 Power stations | 3 Trackside substations | 4 Solar photovoltaic power stations | 5 High tech & industrial | 6 Substations | 7 Sports & recreation | 8 Oil & gas

Handle clamps & accessories



Handle clamps - FurseWELD

Part no.	Description
HCPK1	Single part moulds (Price Key 1)
HCPK2	Single part moulds (Price Key 2)
HCPK3	Two part moulds (Price Key 3)
HCPK3A	With chain grip, two part moulds (Price Key 3)
HCPK3B	Sprung, single part moulds (Price Key 3)
HCPK4	Two-part moulds (Price Key 4)
HCPK4A	With chain grip, multi-part moulds (Price Key 4)
HCPK5	Multi-part moulds (Price Key 5)
HCPK7	Multi-part moulds (Price Key 7)
HCPK8	Multi-part moulds (Price Key 8)



Duxseal sealing compound



Cable cleaning brush,
Tape cleaning brush,
& Mould cleaning brush



Packing, Flint gun,
& Mould cleaning scraper



Mould jacket



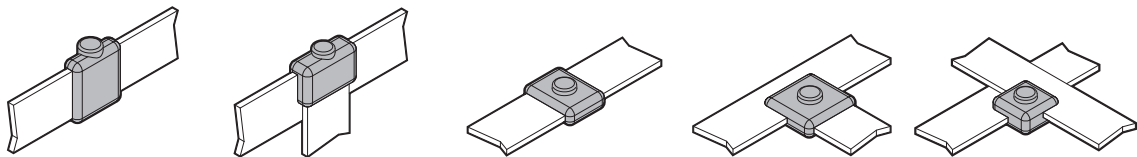
Welding toolbox

Accessories - FurseWELD

Part no.	Description
B135	Cable cleaning brush
BCM	Mould cleaning brush
BFC	Tape cleaning brush
DUXSEAL	Duxseal sealing compound (1 lb)
FGUN	Flint gun
FLINTS	Replacement flints (pack of 100)
HD35-HD150	Hammer die
PACK-A	Packing
S102-S111	Copper sleeve
S108A-S111A	Copper sleeve
STM1-FU	Mould cleaning scraper
TB100-FU	Welding toolbox
TK100	Standard toolkit for bar to bar joints Includes flint gun (FGUN), tape cleaning brush (BFC), mould cleaning brush and scraper (BCM & STM1-FU)
TK200	Standard toolkit for cable to cable joints Includes flint gun (FGUN), cable cleaning brush (B135), mould cleaning brush and scraper (BCM & STM1-FU)
MJ4	Mould jacket (Price Key 3 & 4)
MJ5	Mould jacket (Price Key 5)

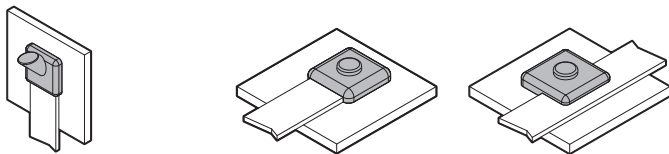
FurseWELD

Connection selection guide



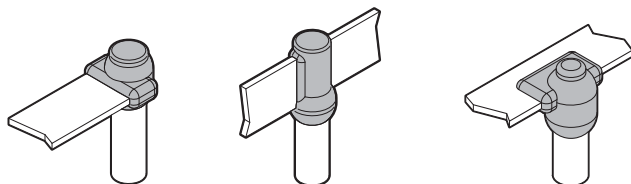
Bar to bar

Connection Type	Type BB1	Type BB3	Type BB7	Type BB14	Type BB41
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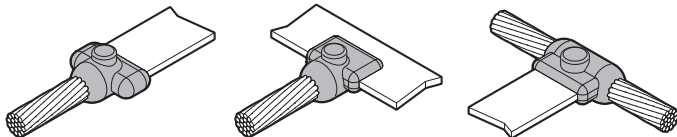
Bar to steel surface

Connection Type	Type BS1	Type BS2	Type BS3
Section 9 / Page No.	9/13	9/14	9/15



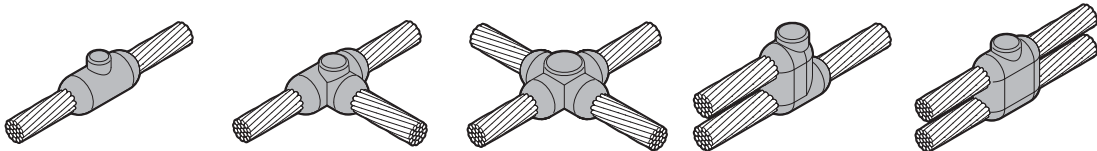
Bar to earth rod

Connection Type	Type BR1	Type BR2	Type BR7
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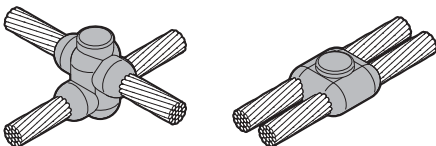
Cable to bar

Connection Type	Type CB1	Type CB4	Type CB5
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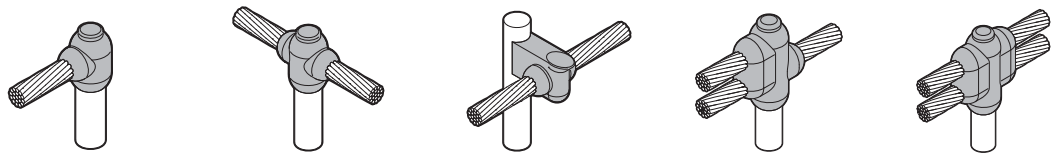


Cable to cable

Connection Type	Type CC1	Type CC2	Type CC4	Type CC6	Type CC7
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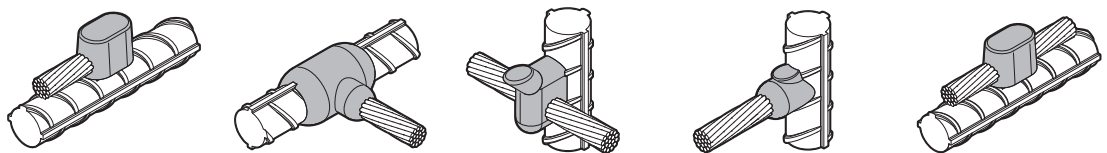


Connection Type	Type CC11	Type CC14
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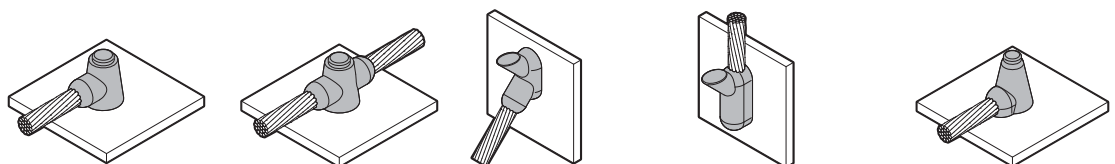
Cable to earth rod

Connection Type	Type CR1	Type CR2	Type CR3	Type CR17	Type CR24
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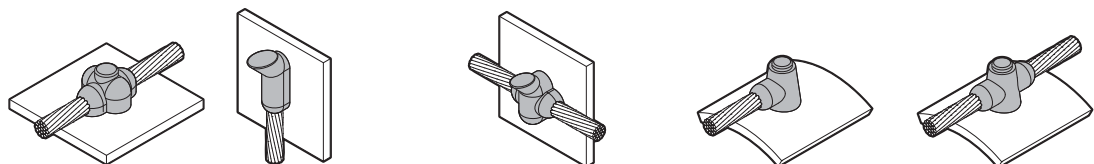
Cable to reinforcing bar

Connection Type	Type CRE1	Type CRE2	Type CRE3	Type CRE6	Type CRE17
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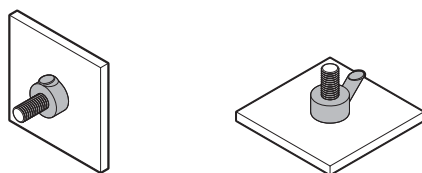


Cable to steel surface & pipe

Connection Type	Type CS1	Type CS2	Type CS3	Type CS7	Type CS8
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Connection Type	Type CS9	Type CS25	Type CS27	Type CS32	Type CS34
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Stud to steel surface

Connection Type	Type RS1	Type RS2
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SureSHOT

Connection Type	Type SS1	Type SS2
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Conductors must be in the orientation shown to achieve the correct connection

Furse offers technical support to assist with selection of joint type. If connections shown do not meet your requirements, please contact your local sales office on +44 (0)115 964 3700 (UK), +971 (0)4 609 1635 (Dubai) or +65 6776 5711 (Singapore) for assistance.

Protectors for mains power supplies



Mains supplies - equipotential bonding

Part no.	Description
ESP 240/I/TNS	Enhanced single phase protector for level I/II LPS systems for 240 TNS/TNCS supplies
ESP 240/III/TNS	Enhanced single phase protector for level III/IV LPS systems for 240 TNS/TNCS supplies
ESP 240/I/TNC	Enhanced single phase protector for level I/II LPS systems for 240 TNC supplies
ESP 240/III/TNC	Enhanced single phase protector for level III/IV LPS systems for 240 TNC supplies
ESP 240 /I/TT	Enhanced single phase protector for level I/II LPS system for 240 V TT supplies
ESP 240/III/TT	Enhanced single phase protector for level III/IV systems for 240 V TT supplies
ESP 415/I/TNS	Enhanced three phase protector for level I/II LPS systems for 415 TNS/TNCS supplies
ESP415/III/TNS	Enhanced three phase protector for level III/IV LPS systems for 415 TNS/TNCS supplies
ESP415/I/TNC	Enhanced three phase protector for level I/II LPS systems for 415 V TNC supplies
ESP415/III/TNC	Enhanced three phase protector for level III/IV systems for 415 V TNC
ESP415/I/TT	Enhanced three phase protector for level I/II LPS systems for 415 V TT supplies
ESP415/III/TT	Enhanced three phase protector for level III/IV LPS systems for 415 V TT supplies



Mains supplies - DIN housing

Part no.	Description
ESP 120 D1	Enhanced protector for single phase supplies of 90-150 volts
ESP 240 D1	Enhanced protector for single phase supplies of 200-280 volts
ESP 277 D1	Enhanced protector for single phase of 232-250 volts
ESP 208 D1	Enhanced protector for three phase supplies of 156-260 volts with LED indication
ESP 208 D1/LCD	Enhanced protector for three phase supplies of 156-260 volts with intelligent LCD display indication
ESP 415 D1	Enhanced protector for three phase supplies of 346-484 volts with LED indication
ESP 415 D1/LCD	Enhanced protector for three phase supplies of 346-484 volts with intelligent LCD Display indication
ESP 480 D1	Enhanced protector for three phase supplies of 402-600 volts with LED indication
ESP 480 D1/ LCD	Enhanced protector for three phase supplies of 402-600 volts with intelligent LCD display indication

Supplied with remote indication display

ESP 208 D1R	Enhanced protector with remote LED display and 1 m lead, for three phase supplies of 156-260 volts
ESP 208 D1R/LCD	Enhanced protector with remote intelligent LCD display and 1 m lead, for three phase supplies of 156-260 volts
ESP 415 D1R	Enhanced protector with remote LED display and 1 m lead, for three phase supplies of 346-484 volts
ESP 415 D1R/LCD	Enhanced protector with remote intelligent LCD display and 1 m lead, for three phase supplies of 346-484 volts
ESP 480 D1R	Enhanced protector with remote LED display and 1 m lead, for the phase supplies of 402-600 volts
ESP 480 D1R/LCD	Enhanced protector with remote intelligent LCD display and 1 lead, for three phase supplies of 402-600 volts
ESP RLA HD-1	1 m lead for use with three phase D1/D1R Series
ESP RLA HD-2	2 m lead for use with three phase D1/D1R Series
ESP RLA HD-2	3 m lead for use with three phase D1/D1R Series

Mains supplies (extra high maximum surge currents)

Part no.	Description
ESP 415 M2	Enhanced protector with a maximum surge current rating of 80 kA 8/20, for three phase supplies of 346-484 volts
ESP 145 M4	Enhanced protector with a maximum surge current rating of 160 kA 8/20, for three phase supplies of 346-484 volts
ESP 480 M2	Enhanced protector with a maximum surge current rating of 80 kA 8/20, for three phase supplies of 402-600 volts
ESP 480 M4	Enhanced protector with a maximum surge current rating of 160 kA 8/20, for three phase supplies of 346-484 volts



Protectors for mains power supplies



Mains supplies & power distribution system

Part no.	Description
ESP 120 M1	Enhanced pre protector for single phase supplies of 90-150 volts
ESP 240 M1	Enhanced pre protector for single phase supplies of 200-280 volts
ESP 277 M1	Enhanced pre protector for single phase supplies of 232-350 volts
ESP 208 M1	Enhanced pre protector for single phase supplies of 156-260 volts
ESP 415 M1	Enhanced pre protector for single phase supplies of 346-484 volts
ESP 480 M1	Enhanced pre protector for single phase supplies of 402-600 volts



Mains supplies- with remote display indication

Part no.	Description
ESP 415 M1R	Enhanced protector with a maximum surge current rating of 40 kA 8/20, with remote display and 1 m lead, for three phase supplies of 346-484 volts
ESP 480 M1R	Enhanced protector with a maximum surge current rating of 40 kA 8/20, with remote display and 1 m lead, for three phase supplies of 402-600 volts
ESP 415 M2R	Enhanced protector with a maximum surge current rating of 40 kA 8/20, with remote display and 1 m lead, for three phase supplies of 346-484 volts
ESP 480 M2R	Enhanced protector with a maximum surge current rating of 40 kA 8/20, with remote display and 1 m lead, for three phase supplies of 402-600 volts
ESP 480 M4R	Enhanced protector with a maximum surge current rating of 40 kA 8/20, with remote display and 1 m lead, for three phase supplies of 346-484 volts
ESP 480 M4R	Enhanced protector with a maximum surge current rating of 40 kA 8/20, with remote display and 1 m lead, for three phase supplies of 402-600 volts
ESP RLA-1	Optional 1 m lead for use with M1R, M2R and M4R series
ESP RLA-2	Optional 2 m lead for use with M1R, M2R and M4R series
ESP RLA-4	Optional 4 m lead for use with M1R, M2R and M4R series



Mains supplies & fused connections up to 5 amps or up to 16 amps

Part no.	Description
ESP 120 - 5A	For single phase supplies of 90-150 volts
ESP 120 - 5A/BX	Ready boxed for single phase supplies of 90-150 voltss
ESP 240 - 5A	For single phase supplies of 200-280 volts
ESP 240 - 5A/BX	Ready boxed for single phase supplies of 200-280 volts
ESP 277 - 5A	For single phase supplies of 232-350 volts
ESP 277 - 5A/BX	Ready boxed for single phase supplies of 232-350 volts

Protectors rated at 16 amps or less

ESP 120 - 16A	For single phase supplies of 90-150 volts
ESP 120 -16A/BX	Ready boxed for single phase supplies of 90-150 voltss
ESP 240 - 16A	For single phase supplies of 200-280 volts
ESP 240 - 16A/BX	Ready boxed for single phase supplies of 200-280 volts
ESP 277 - 16A	For single phase supplies of 232-350 volts
ESP 277 - 16A/BX	Ready boxed for single phase supplies of 232-350 volts

Protectors for mains power supplies



Mains supplies & fused connections up to 10 amps or up to 32 amps

Part no.	Description
ESP 120D - 10A	For single phase supplies of 90-150 volts
ESP 120DS - 10A	Ready boxed for single phase supplies of 90-150 voltss
ESP 240D - 10A	For single phase supplies of 200-280 volts
ESP 240DS - 10A	Ready boxed for single phase supplies of 200-280 volts
ESP 277D - 10A	For single phase supplies of 232-350 volts
ESP 277DS -10A	Ready boxed for single phase supplies of 232-350 volts

Protectors rated at 32 amps or less

ESP 120D - 32A	For single phase supplies of 90-150 volts
ESP 120DS - 32A/BX	Ready boxed for single phase supplies of 90-150 voltss
ESP 240D - 32A	For single phase supplies of 200-280 volts
ESP 240DS - 32A/BX	Ready boxed for single phase supplies of 200-280 volts
ESP 277D - 32A	For single phase supplies of 232-350 volts
ESP 277DS - 32A/BX	Ready boxed for single phase supplies of 232-350 volts



Plug-in protection for mains power supplies

Part no.	Description
ESP MC	Plug-in power conditioner, British style (3 square pin) plug and sockets, 220-260 volt supplies (13 A or less)
ESP MC/TN/RJ11	Plug-in power conditioner, British style (3 square pin) plug and sockets, 220-260 volt supplies (13 A or less) with telephone/fax protection
ESP MC/Cat-5e	Plug-in power conditioner, British style (3 square pin)

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