

The following pages (53 – 58) detail the products required to install a ‘Solid circular’ lightning protection system. Additionally, accessories can be found on pages 63 – 64.

Details of the solid circular conductors can be found in the Conductors section.

Air rod

Rod length	Rod diameter	Thread diameter	Material	Weight each	Part No.
500mm	10mm	10mm	Copper	0.33kg	RA400-FU
1000mm	10mm	10mm	Copper	0.65kg	RA402
500mm	10mm	10mm	Aluminium	0.11kg	RA080
1000mm	10mm	10mm	Aluminium	0.22kg	RA085

Manufactured from high conductivity hard drawn copper or aluminium, with rolled threads. Supplied complete with locknut.

“Field Trials in the United States, carried out over many years research have confirmed that blunt air rods are struck by lightning in preference to taper pointed air rods.”

“Lightning rod improvement studies” by C B Moore, W Rison, J Mathis, G Aulich. Journal of Applied Meteorology, May 2000.

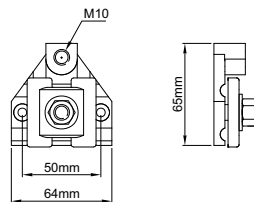


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Air rod base

Conductor diameter	Thread diameter	Conductor material	Weight each	Vertically mounted	Horizontally mounted
8mm	10mm	Copper	0.30kg	SD307	SD305
8mm	10mm	Aluminium	0.11kg	SD007	SD005

Manufactured from high quality copper and aluminium alloys. Simple to install, providing an effective connection between an air rod and the solid circular air termination conductor in either the horizontal or vertical plane.



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Fix using countersunk wood screws 1½” No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305) – see Accessories page 63.

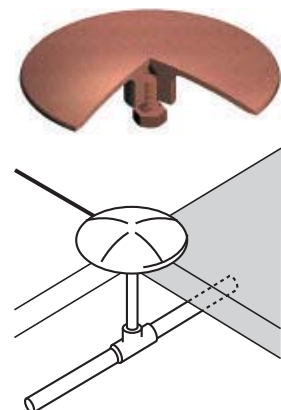
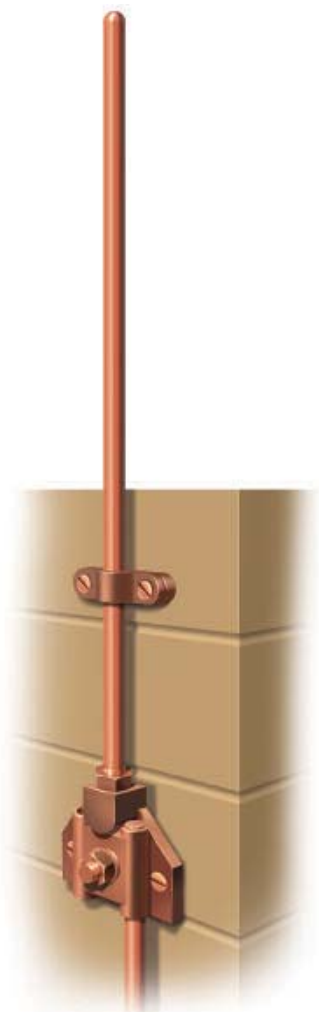
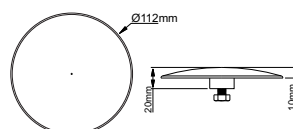


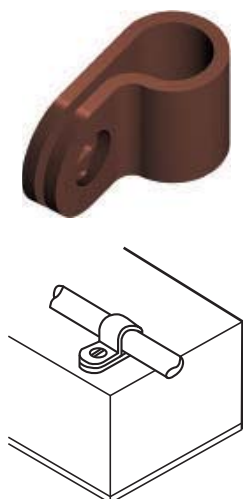
Tightening torque 15Nm

Strike pad

Conductor material	Weight each	Part No.
Copper	0.41kg	PL010
Aluminium	0.13kg	PL005
Copper stem for use with PL010	0.07kg	SM010

Manufactured from high quality copper and aluminium alloys. Designed to provide an exposed attractive point on conductor systems hidden/embedded in the building’s fabric e.g. below the concrete slabs or ballast of a flat roof.





One hole cable clip

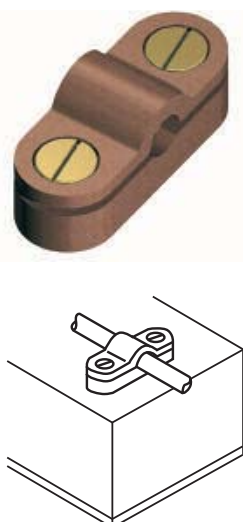
Conductor diameter	Conductor material	Weight each	Part No.
8mm	Copper	0.01kg	CP905
8mm	Aluminium	0.01kg	CP925
10mm*	Copper	0.01kg	CP915
10mm*	Aluminium	0.01kg	CP935

Manufactured from pure copper or aluminium, these simple pressed clips are available to suit bare and PVC covered copper and aluminium solid circular conductor.

* PVC covered 8mm conductor.



Fix using roundhead wood screws 1½" No. 10 or M6 (Part no. **SW305** or **SW405**) and wall plugs (Part no. **PS305**) – see Accessories page 63.



Heavy duty cast cable saddle

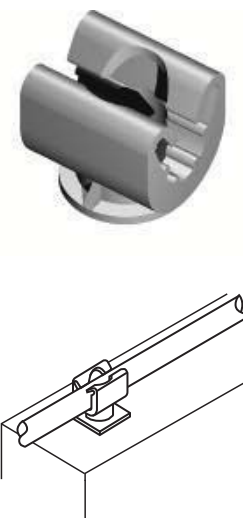
Conductor diameter	Conductor material	Weight each	Part No.
8mm	Copper	0.09kg	CP805
8mm	Aluminium	0.03kg	CP806
10mm*	Copper	0.10kg	CP815
10mm*	Aluminium	0.04kg	CP816

Manufactured from high quality copper and aluminium alloys for excellent corrosion resistance and high pull off loads.

* For use with PVC covered 8mm conductor or for supporting air terminals when used in conjunction with wall mounted air rod bases. Can also be used with glazing bar holdfast and back plate holdfast stem (see page 49.)



Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**) – see Accessories page 63.



Push-in plastic cable clip

Conductor diameter	Weight each	Colour range				
		Black	Grey	Stone	White	Brown
8mm	0.01kg	-	CP872	-	-	CP887
10mm*	0.01kg	CP861	CP871	CP876	CP881	CP886

Manufactured from high grade Polypropylene, UV stabilised against degradation by sunlight and non-brittle to prevent cold weather damage. Available in five colours to match bare and PVC covered copper and aluminium solid circular conductors.

* PVC covered 8mm conductor.



Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**) – see Accessories page 63.

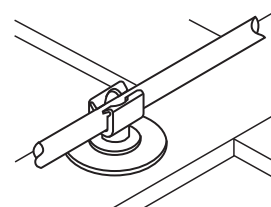
Adhesive push-in clip

Conductor diameter	Weight each	Colour range				
		Black	Grey	Stone	White	Brown
8mm	0.02kg	-	CA872	-	-	CA887
10mm*	0.02kg	CA861	CA871	CA876	CA881	CA886

Designed as a means of securing conductors to surfaces that cannot be penetrated by a screw. Ideal for aluminium, spangled galvanized steel, colour coated steel, glass, perspex, enamel and stainless steel. Manufactured from high grade plastic, UV stabilised against degradation by sunlight and non-brittle to prevent cold weather damage.

Use on surfaces other than PVC roofing.

* PVC covered 8mm conductor.



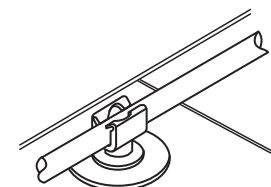
Weldable push-in clip

Conductor diameter	Colour	Weight each	Part No.
8mm	Grey	0.03kg	CW872
8mm	Brown	0.03kg	CW887
10mm*	Grey	0.03kg	CW871
10mm*	Brown	0.03kg	CW886

Provides a secure means of fixing conductors to single ply PVC roof membranes. Manufactured from high grade PVC, UV stabilised against degradation by sunlight and non-brittle to prevent cold weather damage.

Clips are available for Polypropylene, Polyethylene and other roof membranes. Please contact Furse for advice.

* PVC covered 8mm conductor.



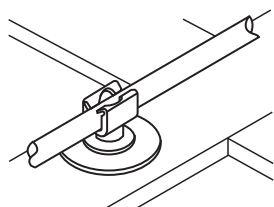
Universal welding solvent, Cleaning solution and Surface primer

Description	Weight each	Part No.
Universal welding solvent 500ml spray applicator (sufficient for application of approx 200 clips). Use with Furse weldable clips only.	0.57kg	CW905
Cleaning solution (Acetone) 500ml spray applicator. For cleaning lacquered roofing membranes.	0.62kg	CW999
Surface primer 250ml spray applicator (sufficient for application of approx 500 clips). Use with Furse adhesive clips only.	0.24kg	CA900



Solvent and surface primer cannot be supplied outside the UK. For overseas projects, please contact Furse for advice.

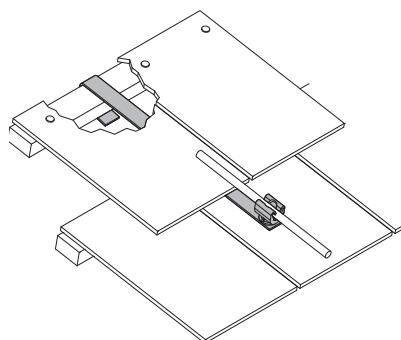
CoSHH Datasheets available on request.



Glue down push-in clip

Conductor diameter	Colour	Weight each	Part No.
8mm	Grey	0.03kg	GD872
8mm	Brown	0.03kg	GD887
10mm	Black	0.03kg	GD861
10mm	Grey	0.03kg	GD871
10mm	Stone	0.03kg	GD876
10mm	White	0.03kg	GD881
10mm	Brown	0.03kg	GD886

Use on clay roof tiles. Supplied in a box of 50 complete with adhesive. Additional glue gun is required.



Non metallic slate holdfast

Conductor diameter	Colour	Weight each	Part No.
8mm	Brown	0.03kg	HF176
8mm	Grey	0.03kg	HF191

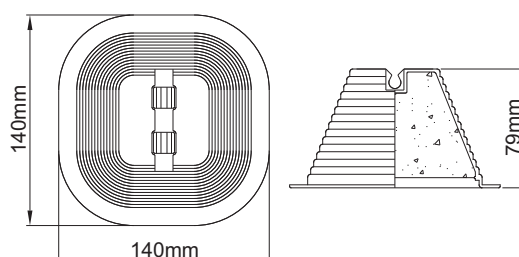
Designed to allow circular conductors to be fixed to tiled roofs without compromising the waterproofing nature of the roof. The 500mm tail fits neatly between overlapping tiles and is wrapped around/fixed to the tile lathe for secure fitting.



Pyramid holdfast

Conductor diameter	Weight each	Part No.
8mm	0.97kg	HF975

Designed to secure bare, 8mm diameter, circular conductors to flat roofs. Supplied filled with concrete the conductor is held in place by the weight of the holdfast. The lip around the base of the product permits the holdfast to be built into bitumen type roofs.



Square clamp

Conductor diameter	Conductor material	Weight each	Part No.
8mm	Copper	0.17kg	CS605
8mm	Aluminium	0.07kg	CS610

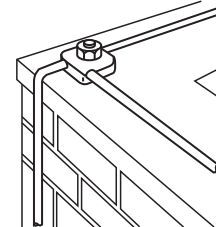
Designed to provide low resistance cross joints in solid circular conductor networks. Manufactured from high quality copper and aluminium alloys for excellent corrosion resistance.



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Tightening torque 12Nm



Tee clamp

Conductor diameter	Conductor material	Weight each	Part No.
8mm	Copper	0.17kg	CS505
8mm	Aluminium	0.07kg	CS510

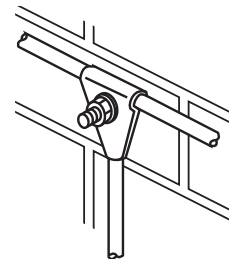
Designed to provide low resistance tee joints in solid circular conductor networks. Manufactured from high quality copper and aluminium alloys for excellent corrosion resistance.



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Tightening torque 12Nm



Jointing clamp

Conductor diameter	Conductor material	Weight each	Part No.
8mm	Copper	0.17kg	CS405
8mm	Aluminium	0.08kg	CS410

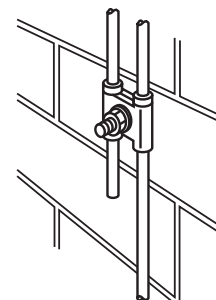
Designed to provide low resistance parallel joints in solid circular conductor networks. Manufactured from high quality copper and aluminium alloys for excellent corrosion resistance.

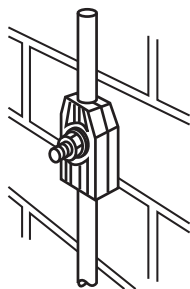


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Tightening torque 12Nm





Test clamp

Conductor diameter	Conductor size	Conductor material	Weight each	Part No.
8mm	25 x 3mm	Copper	0.20kg	CN305
8mm	25 x 3mm	Aluminium	0.09kg	CN310

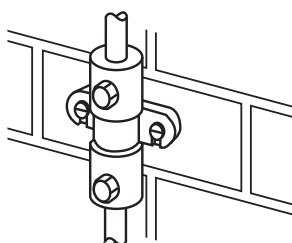
Designed to provide low resistance tee joints in solid circular conductor networks. These multi-purpose clamps can produce circular to circular or circular to tape connection in both through and tee configurations. Manufactured from high quality copper and aluminium alloys for excellent corrosion resistance.



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Tightening torque 12Nm



Bimetallic connector

Conductor size	Weight each	Part No.
8mm diameter aluminium conductor to 8mm diameter copper conductor	0.25kg	CN915
8mm diameter aluminium conductor to 25mm x 3mm copper tape	0.19kg	CN920

Manufactured from a friction welded joint between high conductivity copper and aluminium to provide the ideal means of interconnecting copper and aluminium conductors whilst avoiding bimetallic corrosion.



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Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**) – see Accessories page 63.



Tightening torque 12Nm



Oxide inhibiting compound

Description	Weight each	Part No.
Plastic 8oz bottle	0.23kg	CM005

For all the items in this range we recommend the use of oxide inhibitor when aluminium fittings are installed.

Oxide inhibitor is a non-water soluble, natural-petroleum based polymer grease that seals electrical connections from oxygen and moisture.

CoSHH Datasheet available on request.