

The following pages detail the products required to install a 'Flat tape' lightning protection system. Additionally, accessories are also available.

Details of the flat tape conductors can be found in the Conductors section.

Air rod

Rod length	Rod diameter	Thread diameter	Material	Weight per rod	Part No.
500mm	15mm	16mm	Copper	0.73kg	RA215
1000mm	15mm	16mm	Copper	1.51kg	RA225
2000mm	15mm	16mm	Copper	3.00kg	RA240
500mm	15mm	16mm	Aluminium	0.29kg	RA015
1000mm	15mm	16mm	Aluminium	0.53kg	RA025
2000mm	15mm	16mm	Aluminium	1.06kg	RA040

Supplied with locknut.

"Field trial tests 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.

Multiple point

Rod diameter	Material	Weight each	Part No.
15mm	Copper	0.27kg	RA600

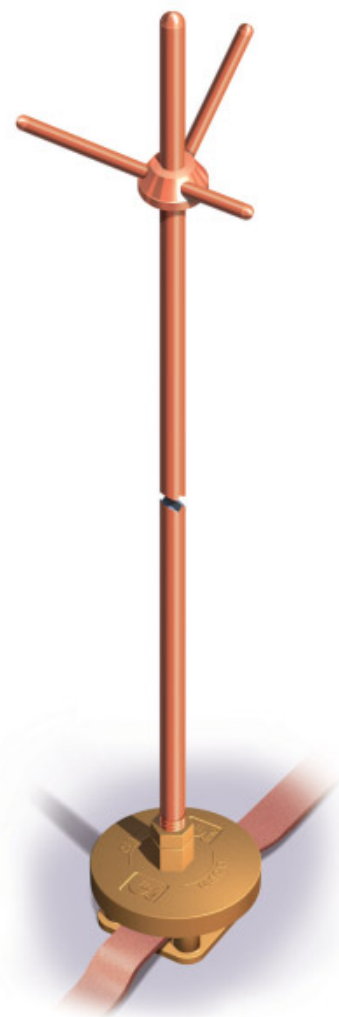
Suitable only for use with copper air terminals.

Air rod base

Rod diameter	Thread diameter	Maximum conductor width	Material	Weight each	Part No.
15mm	16mm	25mm	Copper	0.43kg	SD105-H
15mm	16mm	25mm	Aluminium	0.14kg	SD003-H

Fix using countersunk wood screws (Part no. SW005 or SW105) and wall plugs (Part no. PS305).

BS EN 50164-1



NEW PRODUCT

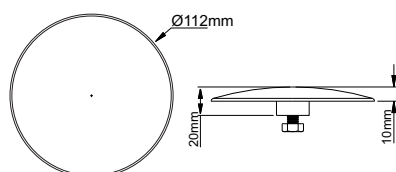
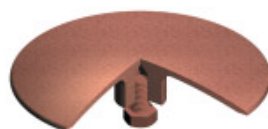
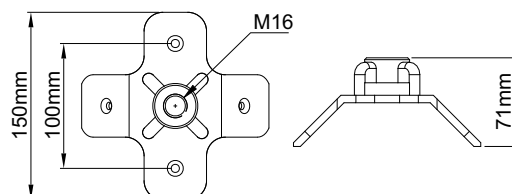


Ridge saddle

Rod diameter	Thread diameter	Maximum conductor width	Material	Weight each	Part No.
15mm	16mm	31mm	Copper	1.07kg	SD115

For supporting lightning conductor air rods on ridges.

Fix using countersunk wood screws (Part no. **SW005**) and wall plugs (Part no. **PS305**) – see Accessories.



Strike pad

Description	Material	Weight each	Part No.
Strike pad	Copper	0.41kg	PL010
Strike pad	Aluminium	0.13kg	PL005

Rod diameter	Material	Part No.
Copper stem for use with PL010	0.07kg	SM010

This product is supplied with a set screw to enable the lightning conductors to be attached to the strike pad.



Rod brackets

Rod diameter	Rod material	Weight each	Part No.
15mm	Copper	0.90kg	BR105
15mm	Aluminium	0.28kg	BR005

Fix using round head woodscrew 1½" x no. 16 and wall plug.



Rod to tape coupling

Rod diameter	Rod material	Rod material	Weight each	Part No.
15mm	16mm	Copper	0.23kg	CG600
15mm	16mm	Aluminium	0.08kg	CG500

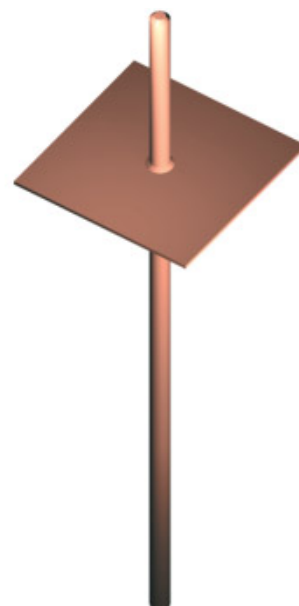
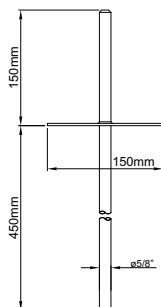
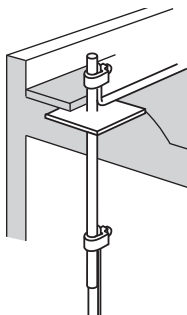
Used in conjunction with rod brackets above.

Tightening torque 7Nm (BS EN 50164-1:2000 class H)

Puddle flange

Material	Weight each	Part No.
Copper	1.54kg	PF105
Aluminium	0.50kg	PF005

For taking lightning conductors through roofs etc.



DC tape clip

Use with bare copper

Conductor size	Weight each	Part No.
20 x 3mm	0.06kg	CP205
25 x 4mm	0.07kg	CP216
30 x 5mm	0.10kg	CP227
38 x 5mm	0.12kg	CP245
40 x 4mm	0.14kg	CP241
50 x 4mm	0.15kg	CP256

Use with PVC covered copper

Conductor size	Weight each	Part No.
25 x 3mm	0.10kg	CP215
25 x 6mm	0.13kg	CP225
50 x 6mm	0.26kg	CP265

Use with lead covered copper

Conductor size	Weight each	Part No.
25 x 3mm	0.20kg	CP305

Made from high quality copper alloys.

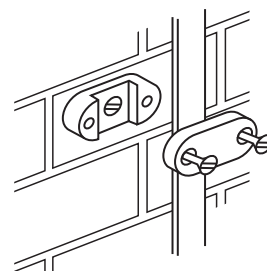
Use with bare aluminium

Conductor size	Weight each	Part No.
20 x 3mm	0.02kg	CP105

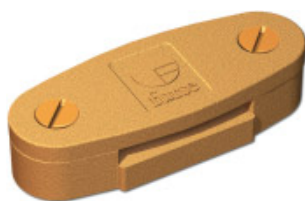
Use with PVC covered aluminium

Conductor size	Weight each	Part No.
25 x 3mm	0.04kg	CP115
50 x 6mm	0.06kg	CP130

Made from high quality aluminium alloys.



Fix using countersunk wood screws (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**) – see Accessories.



NEW PRODUCT

DC tape clip

Use with bare copper

Conductor size	Weight each	Part No.
25 x 3mm	0.07kg	CP210-H
25 x 6mm	0.08kg	CP220-H

Use with bare aluminium

Conductor size	Weight each	Part No.
25 x 3mm	0.03kg	CP110-H
25 x 6mm	0.04kg	CP120-H

Fix using countersunk wood screws (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**)



NEW PRODUCT

Adjustable DC tape clip

Conductor size	Weight each	Part No.
31 x 3mm and 31 x 6mm – use with bare copper	0.10kg	CP230-H
38 x 3mm, 38 x 6mm and 40 x 6mm – use with bare copper	0.12kg	CP240-H
50 x 3mm and 50 x 6mm – use with bare copper	0.16kg	CP260-H
50 x 6mm – use with bare aluminium	0.05kg	CP125-H

Fix using countersunk wood screws (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**).



Non-metallic DC tape clip

Use with bare tape

Conductor size	Colour	Weight each	Part No.
20 x 3mm	Brown	0.01kg	CP005
20 x 3mm	Grey	0.01kg	CP010
25 x 3mm	Brown	0.01kg	CP015
25 x 3mm	Grey	0.01kg	CP020
38 x 5mm	Brown	0.01kg	CP060*
50 x 6mm	Brown	0.02kg	CP065*

Use with PVC covered tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.01kg	CP025
25 x 3mm	Black	0.01kg	CP030
25 x 3mm	Green	0.01kg	CP035
25 x 3mm	Grey	0.01kg	CP040
25 x 3mm	Stone	0.01kg	CP045
25 x 3mm	White	0.01kg	CP050

Made from high grade polypropylene, UV stabilised against degradation by sunlight and non-brittle to prevent cold weather damage. Available in six colours to match bare and PVC covered copper and aluminium tapes. This unique design provides easy installation and resists high pull off loads.

Fix using countersunk wood screws (Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**) – see Accessories.

* Not as illustrated.

Bitumen felt roof clip

Use with bare tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.09kg	FP015
25 x 3mm	Grey	0.09kg	FP020

Use on bitumen felt roofing only

Use with PVC covered tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.09kg	FP025
25 x 3mm	Black	0.09kg	FP030
25 x 3mm	Green	0.09kg	FP035
25 x 3mm	Grey	0.09kg	FP040
25 x 3mm	Stone	0.09kg	FP045
25 x 3mm	White	0.09kg	FP050



Tape clip

Use with bare copper

Conductor size	Weight each	Part No.
20 x 3mm	0.02kg	CP510
25 x 3mm	0.02kg	CP515

Use with PVC covered tape

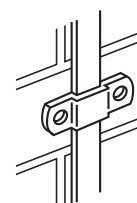
Conductor size	Weight each	Part No.
25 x 3mm	0.02kg	CP517

Use with bare aluminium

Conductor size	Weight each	Part No.
20 x 3mm	0.01kg	CP405
25 x 3mm	0.01kg	CP410

Fix using round head wood screws (Part no. SW305 or SW405) and wall plugs

(Part no. PS305) – see Accessories.



Glue down DC tape clip

Use with bare tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.03kg	GD015
25 x 3mm	Grey	0.03kg	GD020

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

Use with PVC covered tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.03kg	GD025
25 x 3mm	Black	0.03kg	GD030
25 x 3mm	Grey	0.03kg	GD040
25 x 3mm	Stone	0.03kg	GD045
25 x 3mm	White	0.03kg	GD050



Weldable DC tape clip

Use with bare tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.03kg	CW015
25 x 3mm	Grey	0.03kg	CW020

Use on PVC roofing only

Use with PVC covered tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.03kg	CW025
25 x 3mm	Black	0.03kg	CW030
25 x 3mm	Grey	0.03kg	CW040
25 x 3mm	Stone	0.03kg	CW045
25 x 3mm	White	0.03kg	CW050



Flat tape system



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.



Adhesive DC tape clip

Use with bare tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.03kg	CA015
25 x 3mm	Grey	0.03kg	CA020

Use with PVC covered tape

Conductor size	Colour	Weight each	Part No.
25 x 3mm	Brown	0.03kg	CA025
25 x 3mm	Black	0.03kg	CA030
25 x 3mm	Grey	0.03kg	CA040
25 x 3mm	Stone	0.03kg	CA045
25 x 3mm	White	0.03kg	CA050

Use on surfaces other than PVC roofing



Expansion braid bonds

Type	Material	Length	Cross-sectional area	Weight each	Part No.
Single length	Aluminium	200mm	50mm ²	0.07kg	BN001
Single length	Copper	200mm	50mm ²	0.17kg	BN101
Cross-over	Aluminium	300mm	50mm ²	0.23kg	BN002
Cross-over	Copper	300mm	50mm ²	0.53kg	BN102

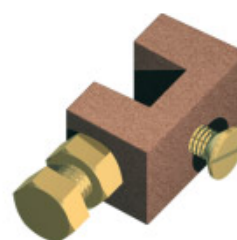
Dressing tool

Type	Weight each	Part No.
Aluminium	0.31kg	DT100



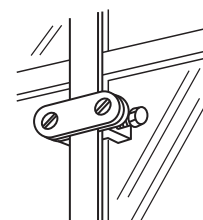
Glazing bar holdfast

Conductor size	Maximum glazing bar width	Weight each	Part No.
Copper	12mm	0.11kg	HF705
Aluminium	12mm	0.05kg	HF710



Block supplied complete with fixing screw. Enables DC clips etc, to be secured to steel frames, girders, window frames, etc.

Conductor clip sold separately.



Slate holdfast

Use with bare tape

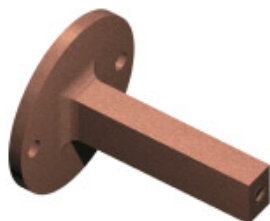
Conductor size	DC Clip Colour	Weight each	Part No.
25 x 3mm	Brown	0.06kg	HF015
25 x 3mm	Grey	0.06kg	HF020

Use with PVC covered tape

Conductor size	DC Clip Colour	Weight each	Part No.
25 x 3mm	Brown	0.06kg	HF025
25 x 3mm	Black	0.06kg	HF030
25 x 3mm	Grey	0.06kg	HF040
25 x 3mm	Stone	0.06kg	HF045

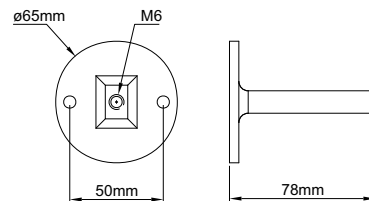


Standard tail length 500mm.



Back plate holdfast stem

Conductor size	Stem height	Weight each	Part No.
Copper	78mm	0.30kg	HF320
Aluminium	78mm	0.10kg	HF325-FU



Fix using round head wood screws (Part no. **SW305** or **SW405**) and wall plugs (Part no. **PS305**) – see Accessories.

For use with the appropriate DC clip etc. Supplied with M6 fixing screw.



NEW PRODUCT

Square tape clamp

Conductor size	Material	Weight each	Part No.
25 x 3mm	Copper	0.12kg	CT105-H
25 x 6mm	Copper	0.30kg	CT110-H
50 x 6mm	Copper	0.60kg	CT115-H
25 x 3mm	Aluminium	0.06kg	CT005-H

For forming straight through, cross or tee joints in tape.

Fix using countersunk wood screws

(Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**).

Tightening torque (BS EN 50164-1:2000) 5Nm.



NEW PRODUCT

Oblong test or junction clamp

Conductor size	Material	Weight each	Part No.
26 x 8mm	Copper	0.29kg	CN105-H
26 x 8mm	Aluminium	0.12kg	CN005

For straight through tape joints.

Tightening torque (BS EN 50164-1:2000) part no's: CN005 - 15Nm and CN105 - 13Nm.



NEW PRODUCT

Crossover clamp

Use with copper

Conductor size	Weight each	Part No.
25 x 3mm	0.09kg	CX105-H

Use with aluminium

Conductor size	Weight each	Part No.
25 x 3mm	0.03kg	CX005-H

For forming cross joints in tape.

Fix using countersunk wood screws

(Part no. **SW005** or **SW105**) and wall plugs (Part no. **PS305**).

Tightening torque (BS EN 50164-1:2000) 5Nm.

Plate type test clamp

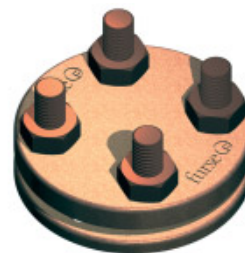
Maximum conductor size	Conductor material	Weight each	Part No.
26 x 12mm	Copper	0.62kg	CT405

Fix using countersunk wood screws

(Part no. **SW005**) and wall plugs

(Part no. **PS305**) – see Accessories.

Tightening torque (BS EN 50164-1:2000) 15Nm.



Screwdown test clamp

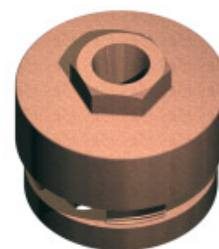
Maximum conductor size	Conductor material	Weight each	Part No.
26 x 8mm	Copper	0.84kg	CT305

Fix using countersunk wood screws

(Part no. **SW005**) and wall plugs

(Part no. **PS305**) – see Accessories.

Tightening torque (BS EN 50164-1:2000) 20Nm.



Bimetallic connector

Conductor size	Weight each	Part No.
25 x 3mm aluminium tape to 25 x 3mm copper tape	0.19kg	CN910
8mm diameter aluminium conductor to 25 x 3mm copper	0.19kg	CN920

For joining aluminium to copper.

Particularly useful where an aluminium lightning protection system needs to be earthed using copper.

Fix using countersunk wood screws

(Part no. **SW005** or **SW105**) and wall plugs

(Part no. **PS305**) – see Accessories.

Tightening torque (BS EN 50164-1:2000) 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.

