Conductors
Introduction

By far the largest and most important component of any structural lightning protection or earthing system is the actual conductor.

Selection of the correct conductor type for the installation is highly important, and is likely to be the initial consideration of a lightning protection or earthing system designer.

A comprehensive range of Furse copper and aluminium conductors is available in each of the main globally recognized standard formats, i.e. flat tape, solid circular and stranded (note, copper stranded only). Additionally each format is available in a variety of conductor sizes, to meet differing lightning protection and earthing requirements.

Specification will depend on whether the application is for an above ground structural lightning protection system, or a below ground earthing installation.

Conductor colour chart

Colour	Standard	
Black	18B29*	
Green	BS 6746C	
Grey	00A07*	
Stone	08B23*	
White	10B15*	
Brown	06C39*	

*PVC colours to BS 5252

Conductors for structural lightning protection systems

Furse lightning protection conductors are available in copper and aluminium. Copper can be supplied bare, tinned, PVC, LSOH and lead covered. It is used for most installations due to its high conductivity, anticorrosive properties, and its flexibility for use in air, in earth and in concrete. Aluminium can be supplied bare or with PVC coating.

The following sizes are suitable for the majority of above ground lightning protection systems:

- **Flat tape conductor**
  25 x 3 mm bare tape, or 25 x 3 mm PVC covered tape
- **Solid circular conductor**
  8 mm diameter bare or PVC covered solid circular conductor
- **Stranded conductor**
  70 mm^2 bare or PVC covered stranded conductor

Conductor colour chart

The choice of a lightning protection conductor is usually governed by its aesthetic impact on the structure to be protected. For many people the term lightning protection conductor conjures up an image of a discoloured copper strip running down the spire of a church. This would clearly be unacceptable to the owner/architect of a modern structure.

In order to reduce the impact of an external system Furse offer a range of UV stabilized PVC covered tapes and solid circular conductors in colours chosen to match most common building materials.

Standard PVC colours are shown in the chart above, with special colours available to order.

Conductors for earthing systems

For below ground earthing applications we offer a large range of bare copper tape, solid circular and stranded conductors thus offering the designer of the system the correctly rated conductor without the need to oversize.

Conductor Size (mm)	C.S.A. (mm^2)	kA for 1 Sec	kA for 3 Sec
12.5 x 1.5	18.75	3.3	1.9
12.5 x 3	37.5	6.6	3.8
20 x 1.5	30	5.3	3.0
20 x 3	60	10.6	6.1
25 x 1.5	37.5	6.6	3.8
25 x 3	75	13.2	7.6
25 x 2	50	8.8	5.1
25 x 4	100	17.6	10.2
25 x 6	150	26.4	15.2
30 x 2	60	10.6	6.1
30 x 3	90	15.8	9.1
30 x 4	120	21.1	12.2
30 x 5	150	26.4	15.2
31 x 3	93	16.4	9.5
31.5 x 4	126	22.2	12.8
31 x 6	186	32.7	18.9
38 x 3	114	20.1	11.6
38 x 5	190	33.4	19.3
38 x 6	228	40.1	23.2
40 x 3	120	21.1	12.2
40 x 4	160	28.2	16.3
40 x 5	200	35.2	20.3
40 x 6	240	42.2	24.4
40 x 6.3	252	44.4	25.6
50 x 3	150	26.4	15.2
50 x 4	200	35.2	20.3
50 x 5	250	44.0	25.4
50 x 6	300	52.8	30.5
50 x 6.3	315	55.4	32.0
50 x 7	350	61.6	35.5
50 x 8	400	70.4	40.6
50 x 10	500	88	50.8
60 x 10	600	105.6	61
80 x 6	480	84.4	48.8
100 x 6	600	105.6	61

These conductor ratings are based upon the recommendations of BS 7430 with an initial conductor temperature of 30°C and a maximum temperature of 250°C

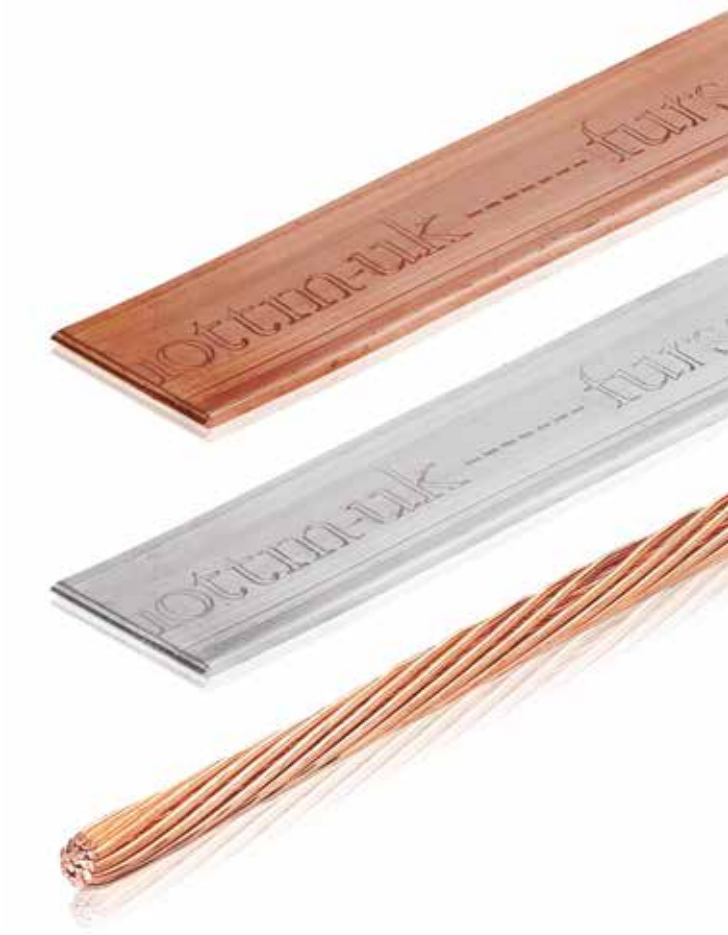
Furse earthing conductors form an integral part of the single earthing arrangement for a structure, whether they provide the means of connection to the final earth electrode (earth rod or plate), or whether they comprise the earth electrode itself (through an earth grid or ring earth arrangement).

An earth conductor must be capable of carrying the maximum expected earth fault current and leakage current likely to occur at a structure. The size or minimum cross-sectional area of the conductor must therefore be gauged in accordance with these criteria.

A good earth conductor must also:

- Be able to withstand mechanical damage
- Be compatible with the material of the earth electrode
- Resist the corrosive effect of local soil conditions

Furse conductors effectively meet these requirements and are available in a range of sizes to meet differing current ratings (see table left). Copper conductor is recommended as, following BS 7430, aluminium should not be installed in contact with soil, nor in damp areas, and it should not be used to make the final connection to an earth electrode.



Conductors
Bare conductors

3

Standards

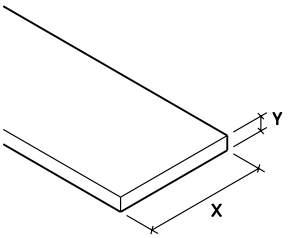
BS EN 13601
IEC/BS EN 62561-2

UL96 (TC030-UL, TC040-UL, TC080)

Bare copper tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)
TC005	12.5 x 1.5	100	0.17
TC010	12.5 x 3	100	0.33
TC015	20 x 1.5	100	0.27
TC020	20 x 3	50	0.53
TC020/100	20 x 3	100	0.53
TC025	25 x 1.5	100	0.33
TC026	25 x 2	50	0.49
TC030	25 x 3	25	0.67
TC030/50	25 x 3	50	0.67
TC030-UL	1" x ⅛"	25	0.67
TC035	25 x 4	50	0.89
TC040	25 x 6	40	1.33
TC040-UL	1" x ¼"	40	1.33
TC039	30 x 2	50	0.53
TC042	30 x 3	50	0.80
TC044	30 x 4	40	1.07
TC043	30 x 5	40	1.33
TC045	31 x 3	50	0.83
TC048	31.5 x 4	40	1.13
TC050	31 x 6	30	1.65
TC055	38 x 3	50	1.01
TC060-FU	38 x 5	30	1.69
TC065	38 x 6	25	2.02
TC067	40 x 3	40	1.06
TC066	40 x 4	30	1.42
TC071	40 x 5	25	1.78
TC068	40 x 6	25	2.16
TC069	40 x 6.3	25	2.24
TC070	50 x 3	40	1.33
TC075	50 x 4	30	1.78
TC078	50 x 5	20	2.22
TC080	50 x 6	20	2.68
TC082	50 x 6.3	20	2.80
TC090	50 x 7	320	3.08
TC092	50 x 8	20	3.56
TC094	50 x 10	10	4.44
TC096	60 x 10	10	5.32
TC098	80 x 6	10	4.32
TC099	100 x 6	10	5.36

– All bare copper tape sold in full coil lengths only
– High conductivity annealed copper tape



Conductors
Bare conductors

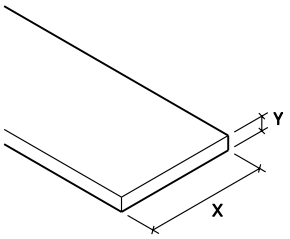
Bare aluminium tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)
TA005	12.5 x 1.5	50	0.05
TA020	20 x 3	50	0.17
TA030	25 x 3	50	0.21
TA042	30 x 3	50	0.25
TA040	25 x 6	50	0.42
TA068	40 x 6	50	0.67
TA080	50 x 6	50	0.85

– All bare aluminium tape sold in full coil lengths only

Standards

BS EN 755-5
IEC/BS EN 62561-2



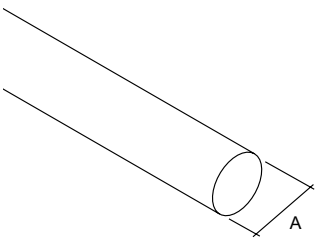
Bare solid circular

Part no.	Conductor material	Diameter (A) (mm)	Cross-sectional area (mm^2)	Standard coil size (m)	Weight per metre (kg)
Copper conductor					
CD035	Copper	Ø 8	50.27	50	0.44
Aluminium conductor					
CD080	Aluminium	Ø 8	50.27	50	0.12
Tinned copper conductor					
CD235	Copper	Ø 8	50.27	50	0.44

– All solid circular conductor sold in full coil lengths only

Standards

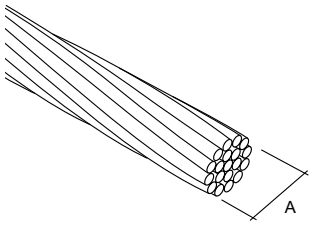
BS EN 13601 (copper)
BS EN 755-5 (aluminium)



Conductors
Bare stranded & tinned conductors

Standards

BS EN 60228 (soft drawn)
BS EN 7884 (hard drawn)



Bare stranded copper cable

Part no.	Cross-sectional area (mm^2)	Stranding no. / mm ø	Nominal diameter (A) (mm)	Weight per metre (kg)
Soft drawn stranded copper cable				
CB006	6	7/1.04	Ø 3.12	0.05
CB016	16	7/1.70	Ø 5.10	0.15
CB025	25	7/2.14	Ø 6.42	0.23
CB035	35	7/2.52	Ø 7.56	0.32
CB050-FU	50	19/1.78	Ø 8.90	0.43
CB070	70	19/2.14	Ø 10.70	0.62
CB095	95	19/2.52	Ø 12.60	0.86
CB120	120	37/2.03	Ø 14.21	1.09
CB150-FU	150	37/2.25	Ø 15.75	1.33
CB185	185	37/2.52	Ø 17.64	1.67
CB240	240	61/2.25	Ø 20.25	2.20
CB300-FU	300	61/2.52	Ø 22.68	2.76
CB400-FU	400	61/2.85	Ø 25.65	3.53
Tinned soft drawn stranded copper cable				
CB070-T*	70	19/2.14	Ø 10.70	0.62
Hard drawn stranded copper cable				
CB071*	70	7/3.55	Ø 10.70	0.64

– *Additional sizes available on request

Standards

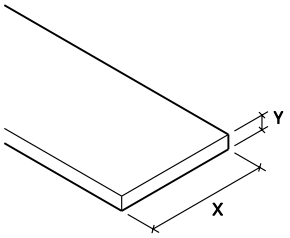
BS EN 13601
IEC/BS EN 62561-2

UL96 (TC230-UL)

Tinned copper tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)
TC220	20 x 3	50	0.53
TC225-FU	12.5 x 1.5	100	0.17
TC226	25 x 2	50	0.49
TC230	25 x 3	50	0.67
TC230-UL	1" x ⅛"	50	0.67
TC239	30 x 2	50	0.53
TC240	25 x 6	40	1.33
TC245	31 x 3	50	0.83
TC260	38 x 5	30	1.69
TC266	40 x 4	30	1.42
TC267	40 x 3	40	1.06
TC280	50 x 6	20	2.68

– All tinned copper tape sold in full coil lengths only
– High conductivity annealed tinned copper tape



Conductors
Bimetallic cable & hard drawn bar

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

– 40% conductivity supplied as standard. Other sizes also available. Contact us for details

Standards

ASTM B228

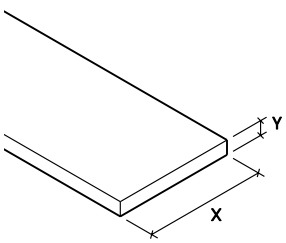
Hard drawn copper bar

Part no.	Overall nominal size (X x Y) (mm)	Approximate length (m)	Weight per metre (kg)
Bare hard drawn bar			
BA205	25 x 3	3	0.67
BA210	25 x 6	4	1.33
BA225	38 x 6	4	2.03
BA230	50 x 6	3	2.67
BA235	50 x 10	4	4.45
BA240	75 x 6	4	4.00
BA250-FU	100 x 6	4	5.38
Tinned hard drawn bar			
BA206	25 x 3	3	0.67
BA211	25 x 6	4	1.33
BA226	38 x 6	4	2.03
BA231	50 x 6	3	2.67
BA236	50 x 10	4	4.45
BA241	75 x 6	4	4.00
BA251-FU	100 x 6	4	5.38

– Other sizes available on request

Standards

BS EN 12163



Conductors
Flexible braid

3

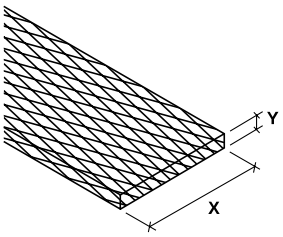
Standards

BS EN 13602

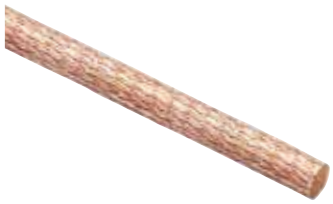
Flexible flat copper braid

Part no.	Overall nominal size (X x Y) (mm)	Cross-sectional area (mm^2)	Weight per metre (kg)
Bare flat braid			
BD020	12 x 1	6	0.06
BD025	15 x 1.5	10	0.10
BD026	19 x 2.5	16	0.16
BD028	25 x 3	25	0.25
BD030	25 x 3.5	35	0.34
BD031	30 x 5	50	0.49
BD027	32 x 6	70	0.63
BD032	37 x 6	95	0.93
BD033	45 x 6	120	1.15
BD034	50 x 8	150	1.45
Tinned flat braid			
BD020-T	12 x 1	6	0.06
BD025-T	15 x 1.5	10	0.10
BD026-T	19 x 2.5	16	0.16
BD028-T	25 x 3	25	0.25
BD035	25 x 3.5	35	0.34
BD031-T	30 x 5	50	0.49
BD027-T	32 x 6	70	0.63
BD032-T	37 x 6	95	0.93
BD033-T	45 x 6	120	1.15
BD034-T	50 x 8	150	1.45

– Suitable for earth bonding. Also supplied as standard pre-cut and drilled bonds
– Other sizes and types of braid can be made to order. Please contact us for details



Conductors
Flexible braid



Standards

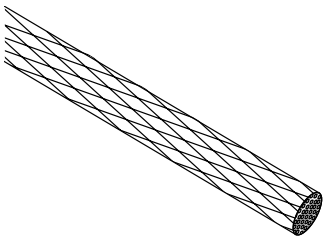
BS EN 13602

Flexible circular copper braid

Part no.	Overall nominal diameter (mm)	Cross-sectional area (mm^2)	Weight per metre (kg)
Bare circular braid			
BD006-FU	Ø 4.2	6	0.06
BD010-FU	Ø 5.4	10	0.10
BD016-FU	Ø 7	16	0.16
BD025-FU	Ø 8.5	25	0.25
BD035-FU	Ø 10.5	35	0.34
BD050-FU	Ø 11.5	50	0.49
BD070-FU	Ø 14.5	70	0.63
BD095-FU	Ø 16	95	0.93
Tinned circular braid			
BD006-FU-T	Ø 4.2	6	0.06
BD010-FU-T	Ø 5.4	10	0.10
BD016-FU-T	Ø 7	16	0.16
BD025-FU-T	Ø 8.5	25	0.25
BD035-FU-T	Ø 10.5	35	0.34
BD050-FU-T	Ø 11.5	50	0.49
BD070-FU-T	Ø 14.5	70	0.63
BD095-FU-T	Ø 16	95	0.93

– Suitable for earth bonding. Also supplied as standard pre-cut and drilled bonds

– Other sizes and types of braid can be made to order. Please contact us for details



Conductors
PVC covered conductors

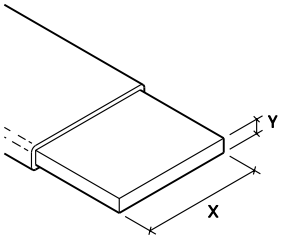
Standards

BS EN 13601 (copper)
BS 5252 (PVC colour,
***Green to BS 6746C)**

PVC covered copper tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)	Colour range
TC100	12.5 x 1.5	50	0.21	Black
TC105-FU	25 x 3	25	0.77	Black
TC105/50	25 x 3	50	0.77	Black
TC110	25 x 3	25	0.77	Green*
TC110/50	25 x 3	50	0.77	Green*
TC115-FU	25 x 3	25	0.77	Grey
TC115/50	25 x 3	50	0.77	Grey
TC120-FU	25 x 3	25	0.77	Stone
TC120/50	25 x 3	50	0.77	Stone
TC125-FU	25 x 3	25	0.77	White
TC125/50	25 x 3	50	0.77	White
TC130	25 x 3	25	0.77	Brown
TC130/50	25 x 3	50	0.77	Brown
TC140-FU	25 x 6	40	1.53	Green*
TC145	50 x 6	20	2.95	Green*

– Other colours and sizes are available to order
– Every precaution has been taken to ensure the UV stability of PVC coverings, but as with all plastics, colour variation will occur over time
– All PVC covered copper tape sold in full coil lengths only
– High conductivity annealed copper tape



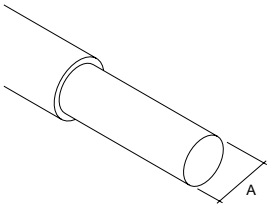
Standards

BS EN 13601 (copper)
BS 5252 (PVC colour,
***Green to BS 6746C)**

PVC covered copper solid circular

Part no.	Conductor material	Diameter (A) (mm)	Cross-sectional area (mm^2)	Standard coil size (m)	Weight per metre (kg)	Colour range
CD036	Copper	Ø 8	50.27	50	0.49	Black
CD038	Copper	Ø 8	50.27	50	0.49	Grey
CD039	Copper	Ø 8	50.27	50	0.49	Stone
CD040	Copper	Ø 8	50.27	50	0.49	White
CD041	Copper	Ø 8	50.27	50	0.49	Brown

– Other colours and sizes are available to order
– Every precaution has been taken to ensure the UV stability of PVC coverings, but as with all plastics, colour variation will occur over time
– All PVC covered copper solid circular sold in full coil lengths only



Conductors
PVC covered conductors

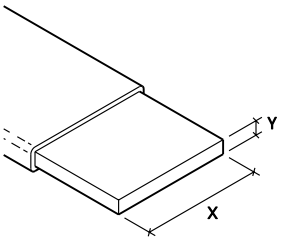
PVC covered aluminium tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)	Colour range
TA100	12.5 x 1.5	50	0.09	Black
TA104	20 x 3	50	0.25	Black
TA105	25 x 3	50	0.30	Black
TA110	25 x 3	50	0.30	Green*
TA115	25 x 3	50	0.30	Grey
TA120	25 x 3	50	0.30	Stone
TA125	25 x 3	50	0.30	White
TA130	25 x 3	50	0.30	Brown
TA140	25 x 6	50	0.60	Green*

– Other colours and sizes are available to order
– Every precaution has been taken to ensure the UV stability of PVC coverings, but as with all plastics, colour variation will occur over time
– All PVC covered aluminium tape sold in full coil lengths only

Standards

BS EN 755-5 (aluminium)
BS 5252 (PVC colour,
***Green to BS 6746C)**



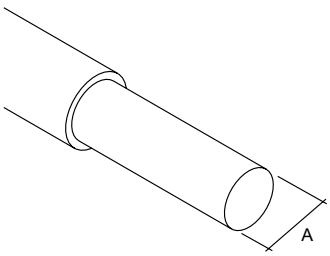
PVC covered aluminium solid circular

Part no.	Diameter (A) (mm)	Cross-sectional area (mm^2)	Standard coil size (m)	Weight per metre (kg)	Colour range
CD081	Ø 8	50.27	50	0.18	Black
CD083	Ø 8	50.27	50	0.18	Grey
CD084	Ø 8	50.27	50	0.18	Stone
CD085	Ø 8	50.27	50	0.18	White
CD086	Ø 8	50.27	50	0.18	Brown

– Other colours and sizes are available to order
– Every precaution has been taken to ensure the UV stability of PVC coverings, but as with all plastics, colour variation will occur over time
– All PVC covered aluminium solid circular sold in full coil lengths only

Standards

BS EN 755-5 (aluminium)
BS 5252 (PVC colour)



Conductors
PVC covered conductors

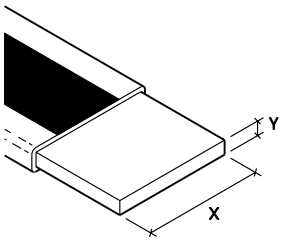
Green & yellow PVC insulated copper tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)	Colour range
TC111-FU	25 x 3	25	0.79	Green & Yellow
TC111/50	25 x 3	50	0.79	Green & Yellow

– High conductivity annealed copper tape
– All PVC covered copper tape sold in full coil lengths only

Standards

BS EN 13601 (copper)
BS 6746C (PVC colour)

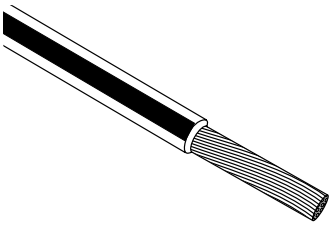


Green & yellow PVC insulated stranded copper cable

Part no.	Cross-sectional area (mm^2)	Stranding no. / mm ø	Weight per metre (kg)	Colour range
CC016	16	7/1.70	0.19	Green & Yellow
CC025	25	7/2.14	0.29	Green & Yellow
CC035	35	7/2.52	0.41	Green & Yellow
CC050	50	19/1.78	0.53	Green & Yellow
CC070	70	19/2.14	0.73	Green & Yellow
CC095	95	19/2.52	1.00	Green & Yellow
CC120-FU	120	37/2.03	1.27	Green & Yellow
CC150-FU	150	37/2.25	1.54	Green & Yellow
CC185	185	37/2.52	2.01	Green & Yellow
CC240	240	61/2.25	2.49	Green & Yellow
CC300	300	61/2.52	3.05	Green & Yellow
CC400-FU	400	61/2.85	3.90	Green & Yellow

Standards

BS EN 50525 (copper)
BS 6746C (PVC colour)



Conductors
LSOH & lead covered conductors

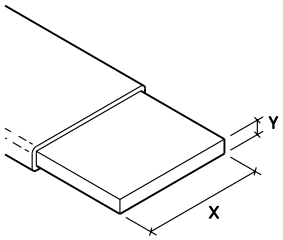
Standards

BS EN 13601 (copper)
BS 6746C (PVC colour)

LSOH covered copper tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)	Colour range
TC910	25 x 3	25	0.77	Green
TC910/50	25 x 3	50	0.77	Green
TC940	25 x 6	40	1.53	Green
TC980	50 x 6	20	2.95	Green

– Other colours and sizes are available to order
– All LSOH covered copper tape sold in full coil lengths only



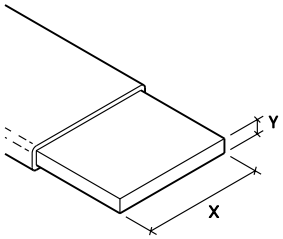
Standards

BS EN 13601

Lead covered copper tape

Part no.	Conductor size (X x Y) (mm)	Standard coil size (m)	Weight per metre (kg)
TC330	25 x 3	2.56	25

– All lead covered copper tape sold in full coil lengths only



Conductors
Conductor guards

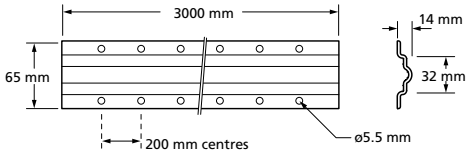
PVC protective down conductor guard

Part no.	Length (mm)	Weight each (kg)	Colour range
GC205	3000	1.00	Black
GC215	3000	1.00	Grey
GC220	3000	1.00	Stone
GC225	3000	1.00	White
GC230	3000	1.00	Brown

Standards

BS 1006 (PVC colour)

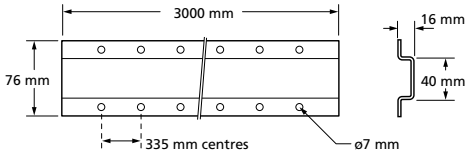
– Protects against vandalism and opportunity theft
– High impact PVC, UV stabilized to BS 1006 to reduce colour degradation
– Suitable to protect bare 25 x 3 mm flat tape, Ø 8 mm solid circular and 50 mm² stranded cable
– Fix using roundhead wood screws (Part no. SW405) and wall plugs (PS305)
– Other colours available to order



Anti-vandal down conductor guard

Part no.	Length (mm)	Weight each (kg)
AV005	3000	2.90

– Protects against vandalism and opportunity theft
– High impact PVC, UV stabilized to BS 1006 to reduce colour degradation
– Suitable to protect bare 25 x 3 mm flat tape, Ø 8 mm solid circular and 50 mm² stranded cable
– Fix using No. 10 x 1½" countersunk, roundhead or security screws and wall plugs



Conductor network
Metallic conductor clips

Swing lid DC tape clip

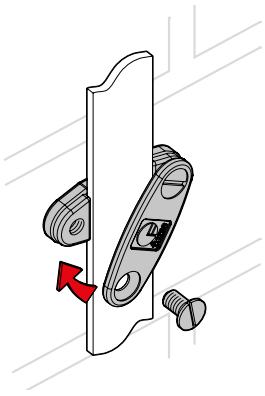
Part no.	Conductor size (mm)	Weight each (kg)
For use with bare copper		
CP210-H	25 x 3	0.07
CP220-H	25 x 6	0.08
For use with bare aluminium		
CP110-H	25 x 3	0.03
CP120-H	25 x 6	0.04
For use with PVC covered copper		
CP215-H	25 x 3	0.08

– DC tape clips manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance and high pull off loads
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)

Standards

IEC/BS EN 62561-4 (CP210-H, CP110-H)

UL96 (CP2610-H, CP-220H)



Adjustable DC tape clip

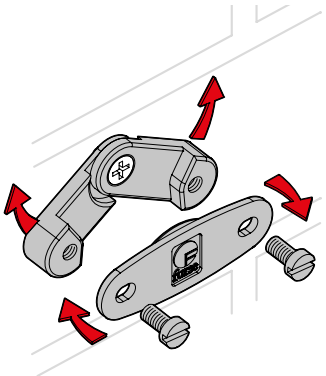
Part no.	Conductor size (mm)	Weight each (kg)
For use with bare copper		
CP230-H	31 x 3 and 31 x 6	0.12
CP240-H	38 x 3, 38 x 6 and 40 x 6	0.14
CP260-H	50 x 3 and 50 x 6	0.16

– DC tape clips manufactured from high quality copper alloy for excellent corrosion resistance and high pull off loads
– Variable thicknesses of conductor are accommodated by a reversible lid
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)

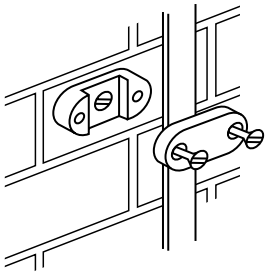
Standards

IEC/BS EN 62561-4

UL96 (CP260-H)



Conductor network
Metallic conductor clips



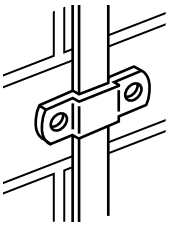
Standards

IEC/BS EN 62561-4 (CP115)

DC tape clip

Part no.	Conductor size (mm)	Weight each (kg)
For use with bare copper		
CP205	20 x 3	0.06
CP216	25 x 4	0.07
CP227	30 x 5	0.10
CP245	38 x 5	0.12
CP241	40 x 4	0.14
CP256	50 x 4	0.15
For use with PVC covered copper		
CP225	25 x 6	0.13
CP265	50 x 6	0.26
For use with lead covered copper		
CP305	25 x 3	0.20
For use with bare aluminium		
CP105	20 x 3	0.02
CP125	50 x 6	0.05
For use with PVC covered aluminium		
CP115	25 x 3	0.04
CP130	50 x 6	0.06

– High quality alloys of either copper or aluminium down conductor clip for securing flat tape
– Other sizes available to order
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)



Tape clip

Part no.	Conductor size (mm)	Weight each (kg)
For use with bare copper		
CP510	20 x 3	0.02
CP515	25 x 3	0.02
For use with bare aluminium		
CP405	20 x 3	0.01
CP410	25 x 3	0.01
CP415	25 x 6	0.01
For use with PVC covered tape		
CP517	25 x 3	0.02

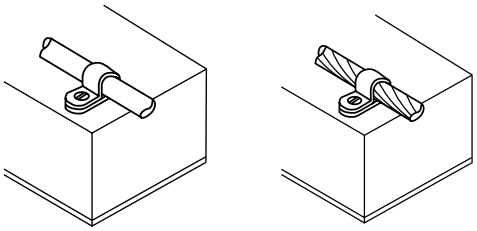
– Manufactured from pure copper or aluminium, these pressed clips are available in a range of sizes to suit bare and PVC covered copper and aluminium tapes
– Fix using roundhead wood screws 1½" No. 10 or M6 (Part no. SW305 or SW405) and wall plugs (Part no. PS305)

Conductor network
Metallic conductor clips

One hole cable clip

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
For use with solid circular conductor			
CP905	Ø 8	Copper	0.01
CP925	Ø 8	Aluminium	0.01
CP915	Ø 10*	Copper	0.01
CP935	Ø 10*	Aluminium	0.01
For use with stranded conductor			
CP910	50 mm²	Copper	0.01
CP915	70 mm²	Copper	0.01
CP920	95 mm²	Copper	0.01

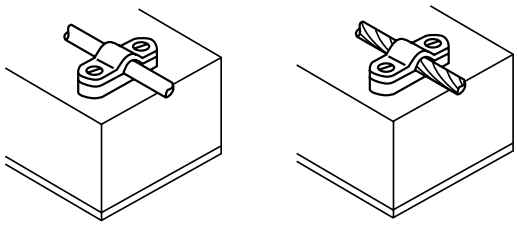
– Manufactured from pure copper or aluminium, these pressed clips are available to suit bare and PVC covered copper and aluminium solid circular conductor, and bare copper stranded conductor
– Fix using roundhead wood screws 1½" No. 10 or M6 (Part no. SW305 or SW405) and wall plugs (Part no. PS305)
– *PVC covered Ø8 mm conductor
– Clip supplied in open position



Heavy duty cast cable saddle

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
For use with solid circular conductor			
CP805	Ø 8	Copper	0.09
CP806	Ø 8	Aluminium	0.03
CP815	Ø 10*	Copper	0.10
CP816	Ø 10*	Aluminium	0.04
For use with stranded conductor			
CP810	50 mm²	Copper	0.10
CP815	70 mm²	Copper	0.10
CP835	95 mm²	Copper	0.10
CP855	120 mm²	Copper	0.10

– Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance and high pull off loads
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– *For use with PVC covered Ø8 mm 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



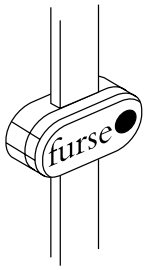
Standards

IEC/BS EN 62561-4

Conductor network
Non-metallic conductor clips

Standards

IEC/BS EN 62561-4



Non-metallic DC tape clip

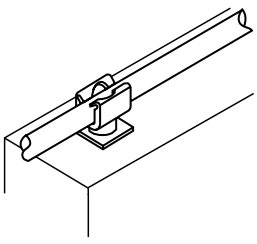
Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
CP005	20 x 3	Brown	0.01
CP010	20 x 3	Grey	0.01
CP015	25 x 3	Brown	0.01
CP020	25 x 3	Grey	0.01
CP060*	38 x 5	Brown	0.01
CP065*	50 x 6	Brown	0.02
For use with PVC covered tape			
CP025	25 x 3	Brown	0.01
CP030	25 x 3	Black	0.01
CP035	25 x 3	Green	0.01
CP040	25 x 3	Grey	0.01
CP045	25 x 3	Stone	0.01
CP050	25 x 3	White	0.01

– High grade Polypropylene, UV stabilized 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
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– *Not as illustrated (drawing available on request)

Non-metallic push-in clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare solid circular conductor			
CP887	Ø 8	Brown	0.01
CP872	Ø 8	Grey	0.01
For use with PVC covered solid circular conductor			
CP886	Ø 10*	Brown	0.01
CP861	Ø 10*	Black	0.01
CP871	Ø 10*	Grey	0.01
CP876	Ø 10*	Stone	0.01
CP881	Ø 10*	White	0.01

– High grade Polypropylene, UV stabilized 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
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– *PVC covered Ø8 mm conductor



Conductor network
Glue down non-metallic conductor clips

Standards

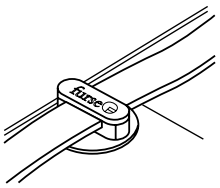
IEC/BS EN 62561-4

5

Glue down DC tape clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
GD015	25 x 3	Brown	0.03
GD020	25 x 3	Grey	0.03
For use with PVC covered tape			
GD025	25 x 3	Brown	0.03
GD030	25 x 3	Black	0.03
GD040	25 x 3	Grey	0.03
GD045	25 x 3	Stone	0.03
GD050	25 x 3	White	0.03

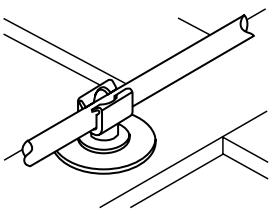
– Use on clay roof tiles. Supplied in a box of 50 complete with adhesive. Additional glue gun is required
– Disc Ø 85 mm
– Dressing tool accessory (DT100) enables flat tape to be set at roof level



Glue down push-in clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare solid circular conductor			
GD887	Ø 8	Brown	0.03
GD872	Ø 8	Grey	0.03
For use with PVC covered solid circular conductor			
GD886	Ø 10*	Brown	0.03
GD861	Ø 10*	Black	0.03
GD871	Ø 10*	Grey	0.03
GD876	Ø 10*	Stone	0.03
GD881	Ø 10*	White	0.03

– Use on clay roof tiles. Supplied in a box of 50 complete with adhesive. Additional glue gun is required
– Disc Ø 85 mm
– *PVC covered Ø 8 mm conductor



Conductor network
Self adhesive non-metallic conductor clips

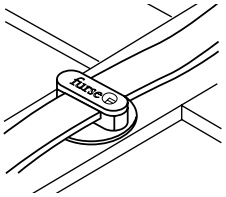
Self adhesive DC tape clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
CA015-FU	25 x 3	Brown	0.03
CA020-FU	25 x 3	Grey	0.03
For use with PVC covered tape			
CA025-FU	25 x 3	Brown	0.03
CA030-FU	25 x 3	Black	0.03
CA040-FU	25 x 3	Grey	0.03
CA045-FU	25 x 3	Stone	0.03
CA050-FU	25 x 3	White	0.03

– Designed to secure 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 etc.
– Manufactured from high grade synthetic polymers, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage. Use on surfaces other than PVC roofing
– Disc Ø 64 mm
– Dressing tool accessory (DT100) enables flat tape to be set at roof level.

Standards

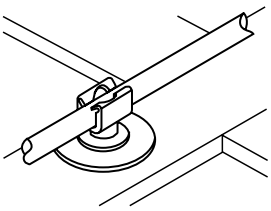
IEC/BS EN 62561-4



Self adhesive push-in clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare solid circular conductor			
CA887	Ø 8	Brown	0.02
CA872	Ø 8	Grey	0.02
For use with PVC covered solid circular conductor			
CA886	Ø 10*	Brown	0.02
CA861	Ø 10*	Black	0.02
CA871	Ø 10*	Grey	0.02
CA876	Ø 10*	Stone	0.02
CA881	Ø 10*	White	0.02

– 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 synthetic polymers, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage. Use on surfaces other than PVC roofing
– Disc Ø 64 mm
– *PVC covered Ø 8 mm conductor



Conductor network
Solvent weldable non-metallic conductor clips

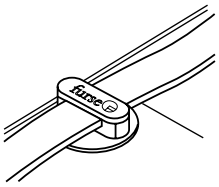
Solvent weldable DC tape clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
CW015-FU	25 x 3	Brown	0.03
CW020-FU	25 x 3	Grey	0.03
For use with PVC covered tape			
CW025-FU	25 x 3	Brown	0.03
CW030-FU	25 x 3	Black	0.03
CW040-FU	25 x 3	Grey	0.03
CW045-FU	25 x 3	Stone	0.03
CW050-FU	25 x 3	White	0.03

– Provides a secure means of fixing conductors to single ply PVC roof membranes
– Manufactured from high grade synthetic polymers, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage
– Use with welding solvent CW905. Dressing tool accessory (DT100) enables flat tape to be set at roof level
– Disc Ø 64 mm

Standards

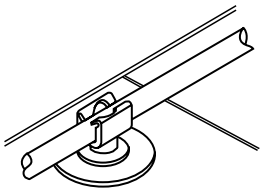
IEC/BS EN 62561-4



Solvent weldable push-in clip

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare solid circular conductor			
CW887	Ø 8	Brown	0.03
CW872	Ø 8	Grey	0.03
For use with PVC covered solid circular conductor			
CW886	Ø 10*	Brown	0.03
CW871	Ø 10*	Grey	0.03

– Provides a secure means of fixing conductors to single ply PVC roof membranes
– Manufactured from high grade synthetic polymers, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage
– Disc Ø 64 mm
– *PVC covered Ø8 mm conductor



Conductor network
Heat weldable non-metallic conductor clips

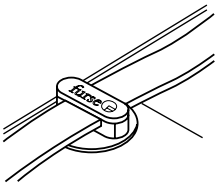
Standards

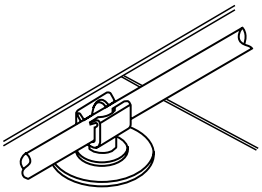
IEC/BS EN 62561-4

Heat weldable clips for PVC roofing

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
HW015-FU	25 x 3	Brown	0.03
HW020-FU	25 x 3	Grey	0.03
For use with PVC covered tape			
HW025-FU	25 x 3	Brown	0.03
HW030-FU	25 x 3	Black	0.03
HW040-FU	25 x 3	Grey	0.03
HW045-FU	25 x 3	Stone	0.03
HW050-FU	25 x 3	White	0.03
For use with bare solid circular conductor			
HW887	Ø 8	Brown	0.03
HW872	Ø 8	Grey	0.03
For use with PVC covered solid circular conductor			
HW886	Ø 10*	Brown	0.03
HW871	Ø 10*	Grey	0.03

– Provides a secure means of fixing flat tape conductors to single ply, PVC roof membranes using an industrial heat gun, where solvent welding is not applicable
– Manufactured from high grade synthetic polymers, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage
– Dressing tool accessory (DT100) enables flat tape to be set at roof level
– Disc Ø 85 mm
– *PVC covered Ø 8 mm conductor





Conductor network
Heat weldable non-metallic conductor clips

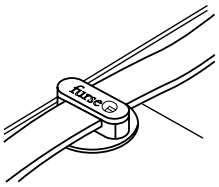
Heat weldable clips for TPO/FPO roofing

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
HW315-FU	25 x 3	Brown	0.03
HW320-FU	25 x 3	Grey	0.03
For use with PVC covered tape			
HW325-FU	25 x 3	Brown	0.03
HW330-FU	25 x 3	Black	0.03
HW340-FU	25 x 3	Grey	0.03
HW345-FU	25 x 3	Stone	0.03
HW350-FU	25 x 3	White	0.03

Standards

IEC/BS EN 62561-4

– Provides a secure means of fixing flat tape conductors to single ply polypropylene roof membranes using an industrial heat gun, where solvent welding is not applicable
– Manufactured from high grade PVC, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage
– Dressing tool accessory (DT100) enables flat tape to be set at roof level
– Disc Ø 85 mm



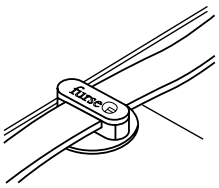
Heat weldable clips for polyethylene roofing

Part no.	Conductor size (mm)	Colour	Weight each (kg)
For use with bare tape			
HW415-FU	25 x 3	Brown	0.03
HW420-FU	25 x 3	Grey	0.03
For use with PVC covered tape			
HW425-FU	25 x 3	Brown	0.03
HW430-FU	25 x 3	Black	0.03
HW440-FU	25 x 3	Grey	0.03
HW445-FU	25 x 3	Stone	0.03
HW450-FU	25 x 3	White	0.03

Standards

IEC/BS EN 62561-4

– Provides a secure means of fixing flat tape conductors to single ply, polyethylene roof membranes using an industrial heat gun, where solvent welding is not applicable
– Manufactured from high grade synthetic polymers, UV stabilized against degradation by sunlight and non-brittle to prevent cold weather damage
– Dressing tool accessory (DT100) enables flat tape to be set at roof level
– Disc Ø 85 mm



Conductor network
Non-metallic clip accessories & felt roof clip

Non-metallic clip accessories

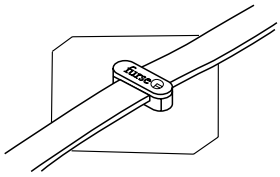
Part no.	Description	Weight each (kg)
CW905	Universal welding solvent - 500 ml spray applicator (sufficient for application of approx 200 clips) Use with Furse solvent weldable clips only	0.57
CW999	Cleaning solution (Acetone) - 500 ml spray applicator For cleaning lacquered roofing membranes	0.62
CA900	Surface primer - 250 ml spray applicator (sufficient for application of approx 500 clips) Use with Furse adhesive clips only	0.24
DT100	Dressing tool - For use with adhesive and weldable DC tape clips	0.31

– Solvent and surface primer cannot be supplied outside the UK. For overseas projects, please contact us for advice
– CoSHH Datasheets available on request

Bitumen felt roof clip

Part no.	Conductor size (mm)	Clip colour	Weight each (kg)
For use with bare tape			
FP015	25 x 3	Brown	0.09
FP020	25 x 3	Grey	0.09
For use with PVC covered tape			
FP025	25 x 3	Brown	0.09
FP030	25 x 3	Black	0.09
FP035	25 x 3	Green	0.09
FP040	25 x 3	Grey	0.09
FP045	25 x 3	Stone	0.09
FP050	25 x 3	White	0.09

– Use on bitumen felt roofing only



Standards

IEC/BS EN 62561-4

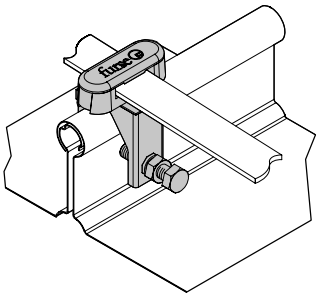
Conductor network
Standing seam roof fixings

Standing seam roof fixing with DC tape clip

Part no.	Conductor size (mm)	Colour	Conductor 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
Non-metallic clip for use with PVC covered tape				
SC025	25 x 3	Brown	Copper/Aluminium	0.076
SC030	25 x 3	Black	Copper/Aluminium	0.076
SC035	25 x 3	Green	Copper/Aluminium	0.076
SC040	25 x 3	Grey	Copper/Aluminium	0.076
SC045	25 x 3	Stone	Copper/Aluminium	0.076
SC050	25 x 3	White	Copper/Aluminium	0.076
Metallic clip for use with PVC covered tape				
SC215-H	25 x 3	–	Copper	0.09

– Highly versatile, innovative standing seam roof fixing including DC tape clip, suitable for use on multi-profiled seam roofing structures up to 22 mm thickness. Use with bare and PVC covered copper and aluminium conductors. Separate datasheet available on request

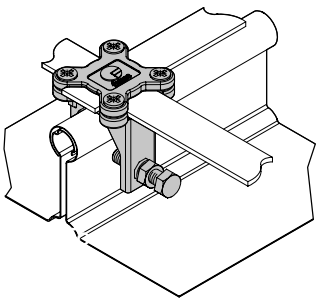
– Metallic clips not illustrated. Drawing available on request



Standing seam roof fixing with square tape clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
SC105-H	25 x 3	Copper	0.18
SC005-H	25 x 3	Aluminium	0.12

– Highly versatile, innovative standing seam roof fixing including square tape clamp, suitable for use on multi-profiled seam roofing structuresup to 22 mm thickness. Use with bare and PVC covered copper and aluminium conductors. Separate datasheet available on request.



Conductor network
Slate holdfasts

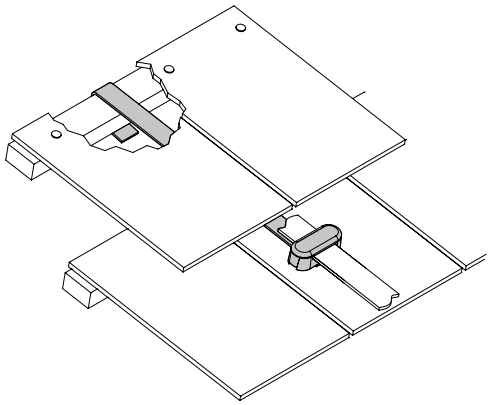
Slate holdfast with non-metallic DC tape clip

Part no.	Conductor size (mm)	Clip colour	Weight each (kg)
For use with bare tape			
HF015	25 x 3	Brown	0.06
HF020	25 x 3	Grey	0.06
For use with PVC covered tape			
HF025	25 x 3	Brown	0.06
HF030	25 x 3	Black	0.06
HF040	25 x 3	Grey	0.06
HF045	25 x 3	Stone	0.06

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

Standards

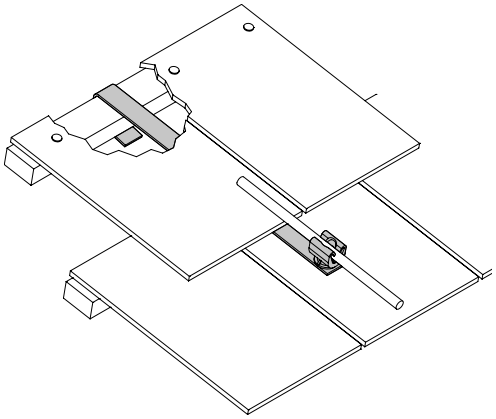
IEC/BS EN 62561-4



Slate holdfast with non-metallic push-in clip

Part no.	Conductor size (mm)	Clip colour	Weight each (kg)
HF176	Ø 8	Brown	0.03
HF191	Ø 8	Grey	0.03

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

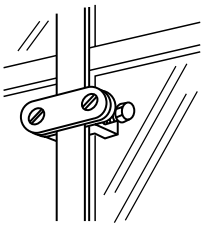


Conductor network
Holdfasts

Glazing bar holdfast

Part no.	Conductor material	Maximum glazing bar width (mm)	Weight each (kg)
HF705	Copper	12	0.11
HF710	Aluminium	12	0.05

– Manufactured from high quality alloys of either copper or aluminium. Simple to install, providing secure anchorage to thin metallic sections that cannot be drilled e.g. window mullions, angle iron etc. Once fixed any metallic or non-metallic conductor clip can be attached with the screw provided
– Conductor clip sold separately



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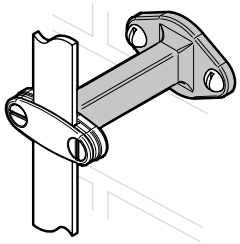
Back plate holdfast stem

Part no.	Conductor material	Weight each (kg)
HF320	Copper	0.30
HF325-FU	Aluminium	0.10

– Supplied with M6 fixing screw to secure appropriate conductor clip
– Fix using roundhead wood screws 1½" No. 10 or M6 (Part no. SW305 or SW405) and wall plugs (Part no. PS305)

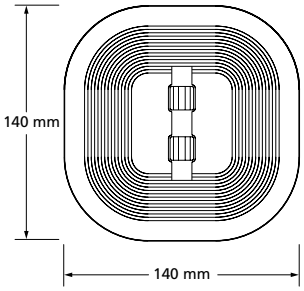


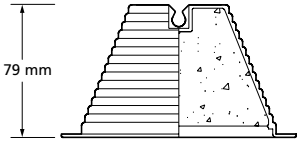
Conductor network
Holdfast & puddle flange

Pyramid holdfast

Part no.	Conductor size (mm)	Weight each (kg)
HF975	Ø 8 mm solid circular	0.97

– Designed to secure bare, 8 mm 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

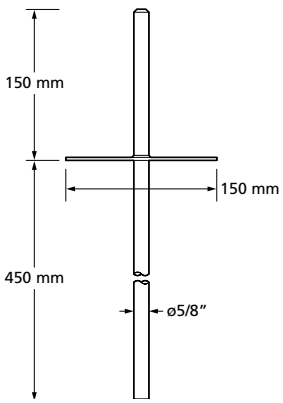


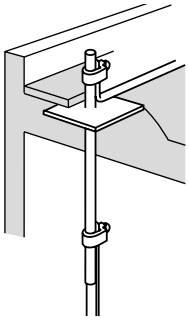


Puddle flange

Part no.	Conductor material	Weight each (kg)
PF105	Copper	1.54
PF005	Aluminium	0.50

– Permits lightning conductors to pass through flat roofs without damaging the waterproof nature of the roof





Conductor network
Conductor clamps

Square tape clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CT105-H	25 x 3	Copper	0.12
CT110-H	25 x 6	Copper	0.30
CT115-H	50 x 6	Copper	0.60
CT005-H	25 x 3	Aluminium	0.06
CT010-H	25 x 6	Aluminium	0.17

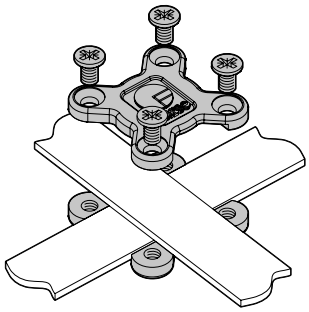
– Manufactured from high quality alloys of either copper or aluminium. Simple to install, providing an effective low resistance connection between overlapping tapes to allow cross, tee, through and right angle joints to be formed
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– Tightening torque 5 Nm

5

Standards

IEC/BS EN 62561-1 Class H

UL96 (CT105-H, CT110-H, CT115-H)



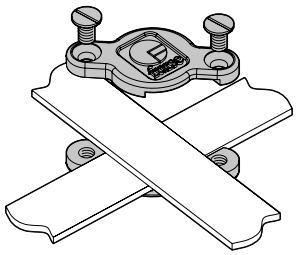
Crossover tape clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CX105-H	25 x 3	Copper	0.09
CX005-H	25 x 3	Aluminium	0.03

– Manufactured from high quality alloys of either copper or aluminium. Simple to install, providing an effective low resistance connection between overlapping tapes to allow cross joints to be formed
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– Tightening torque 5 Nm

Standards

IEC/BS EN 62561-1 Class H



Conductor network
Conductor clamps

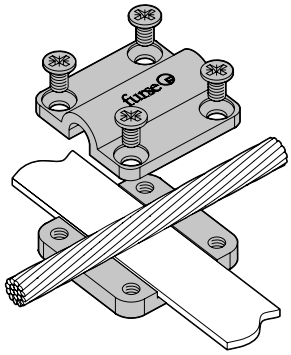
Cable to tape square clamp

Part no.	Conductor size	Conductor material	Weight each (kg)
CT125	25 x 3 mm to 50 mm²	Copper	0.32
CT130	25 x 3 mm to 70 mm²	Copper	0.30
CT135	25 x 3 mm to 95 mm²	Copper	0.28

– Manufactured from high quality copper alloy. Simple to install, providing an effective low resistance connection between conductor tape and stranded copper conductor, allowing cross, tee, through and right angle joints to be formed
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– Tightening torque 5 Nm

Standards

IEC/BS EN 62561-1 Class H



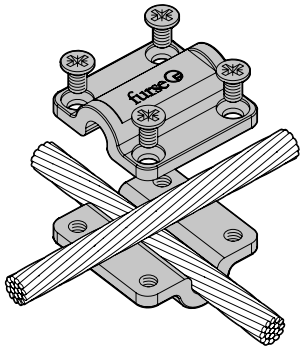
Cable to cable square clamp

Part no.	Conductor size (mm²)	Conductor material	Weight each (kg)
CR810	50	Copper	0.32
CR815	70	Copper	0.29
CR820	95	Copper	0.25

– Manufactured from high quality copper alloy. Simple to install, providing an effective low resistance connection between overlapping stranded conductors allowing cross, tee, through and right angle joints to be formed
– Tightening torque 5 Nm

Standards

BS EN 62561-1 Class H



Conductor network
Conductor clamps

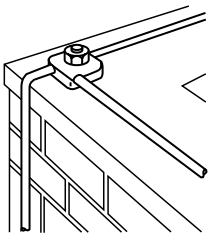
Mini square clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CS605	Ø 8	Copper	0.17
CS610	Ø 8	Aluminium	0.07

– Designed to provide low resistance cross joints in solid circular conductor networks. Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance
– Tightening torque 12 Nm

Standards

BS EN 62561-1 Class H



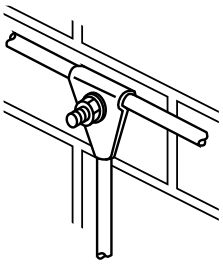
Tee clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CS505	Ø 8	Copper	0.17
CS510	Ø 8	Aluminium	0.07

– Designed to provide low resistance tee joints in solid circular conductor networks. Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance
– Tightening torque 12 Nm

Standards

BS EN 62561-1 Class H



Conductor network
Conductor clamps

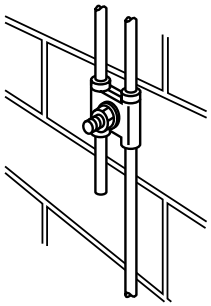
Jointing clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CS405	Ø 8	Copper	0.17
CS410	Ø 8	Aluminium	0.08

– Designed to provide low resistance parallel joints in solid circular conductor networks. Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance
– Tightening torque 12 Nm

Standards

BS EN 62561-1 Class H



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Test / Junction clamp

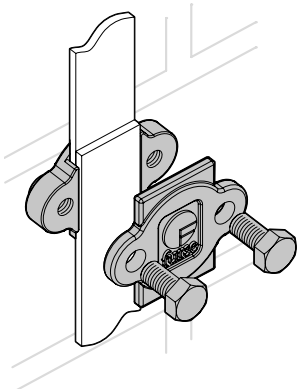
Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CN105-H	26 x 8	Copper	0.29
CN005*	26 x 8	Aluminium	0.12

– Manufactured from high quality alloys of either copper or aluminium. Simple to install, providing an effective low resistance connection between overlapping tapes. The clamped connection is easily made/remade to allow for periodic testing
– Tightening torque CN005 15 Nm; CN105-H 13 Nm
– * Not as illustrated (drawing available on request)

Standards

IEC/BS EN 62561-1 Class H

UL96 (CN105-H)

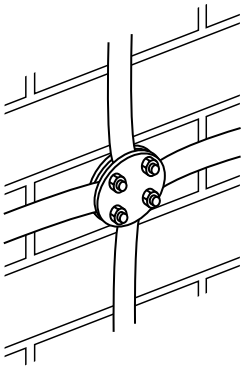


Conductor network
Conductor clamps

Plate type test clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CT405	26 x 12 max	Copper	0.62

– Manufactured from a high quality copper alloy. Simple to install, providing an effective low resistance connection between overlapping tapes.
– The clamped connection is easily made/remade to allow for periodic testing. Enables cross, tee, through and right angle joints to be formed
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005) and wall plugs (Part no. PS305)
– Tightening torque 15 Nm



5

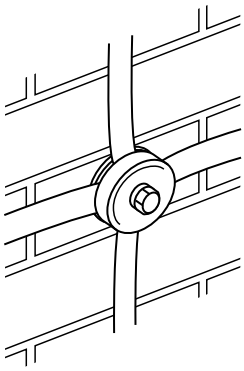
Standards

BS EN 62561-1 Class H

Screwdown test clamp

Part no.	Conductor size (mm)	Conductor material	Weight each (kg)
CT305	26 x 8 max	Copper	0.84

– Manufactured from a high quality copper alloy. Simple to install, providing an effective low resistance connection between overlapping tapes.
– The clamped connection is easily made/remade to allow for periodic testing. Enables cross, tee, through and right angle joints to be formed
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005) and wall plugs (Part no. PS305)
– Tightening torque 20 Nm



Standards

BS EN 62561-1 Class H

Conductor network
Conductor clamps

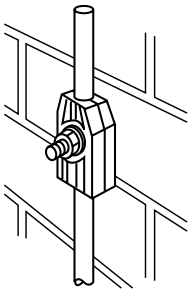
Test clamp

Part no.	Conductor size (mm)	Conductor size (mm)	Conductor material	Weight each (kg)
CN305	Ø 8	25 x 3	Copper	0.20
CN310	Ø 8	25 x 3	Aluminium	0.09

– 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 alloys of either copper or aluminium for excellent corrosion resistance
– Tightening torque 12 Nm

Standards

BS EN 62561-1 Class H



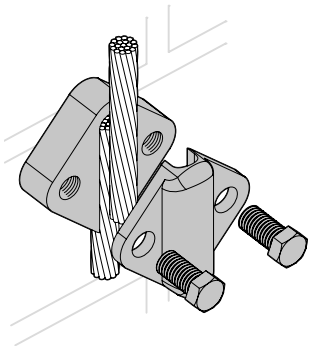
Square test clamp

Part no.	Conductor diameter (mm^2)	Conductor material	Weight each (kg)
CR855	50	Copper	0.39
CR860	70	Copper	0.40
CR865	95	Copper	0.40

– Manufactured from high quality copper alloy
– Simple to install, providing an effective low resistance overlap connection between stranded copper cables
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005) and wall plugs (Part no. PS305)
– Tightening torque 12 Nm

Standards

BS EN 62561-1 Class H



Conductor network
Bimetallic connectors

CN910

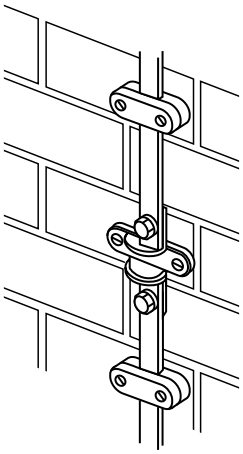
CN915

CN925

Bimetallic connector

Part no.	Conductor size	Weight each (kg)
CN910	25 x 3 mm aluminium tape to 25 x 3 mm copper tape	0.19
CN910-UL	1½" x ⅛" aluminium tape to 1" x ⅛" copper tape	0.19
CN915	8 mm Ø aluminium conductor to 8 mm Ø copper conductor	0.25
CN920	8 mm Ø aluminium conductor to 25 x 3 mm copper tape	0.19
CN925	25 x 3 mm aluminium tape to 25 x 3 mm copper tape	0.20

– 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
– Fix using countersunk wood screws 1½" No. 10 or M6 (Part no. SW005 or SW105) and wall plugs (Part no. PS305)
– Tightening torque 12 Nm



Standards

IEC/BS EN 62561-1 Class H

UL96 (CN910-UL)

Conductor network
Expansion braid bond & oxide inhibitor

Expansion braid bond

Part no.	Type	Conductor material	Length (mm)	Cross-sectional area (mm^2)	Weight each (kg)
BN101	Single length	Copper	200	50	0.17
BN001	Single length	Aluminium	200	50	0.07
BN102	Cross-over	Copper	300	50	0.53
BN002	Cross-over	Aluminium	300	50	0.23

– Designed to remove the risk of damage or distortion to long conductor runs caused by thermal expansion and contraction

Oxide inhibiting compound

Part no.	Description	Weight each (kg)
CM005	Plastic 8 oz bottle	0.23

– When installing mechanical and compression connectors, use oxide inhibiting compound to reduce risk of corrosion

Conductor network
Accessories

Countersunk wood screws

Part no.	Material	Size	Weight per 100 (kg)
SW105	Zinc plated steel	1½" x No.10	0.50
SW110	Zinc plated steel	1½" x No.12	0.60
SW005	Brass	1½" x No.10	0.50
SW010	Brass	1½" x No.12	0.60

Countersunk set screws

Part no.	Material	Size (mm)	Weight Per 100 (kg)
SS160	Stainless Steel 316	M6 x 30	0.60
SS260	Stainless Steel 316	M6 x 30	0.61

Roundhead wood screws

Part no.	Material	Size	Weight per 100 (kg)
SW405	Zinc plated steel	1½" x No.10	0.50
SW305	Brass	1½" x No.10	0.50

Hexagon head set screws

Part no.	Material	Size (mm)	Weight per 100 (kg)
SS635	Phosphor bronze	M10 x 25	2.85
SS640	Phosphor bronze	M10 x 35	3.40
SS650	Phosphor bronze	M12 x 25	4.50
SS655	Phosphor bronze	M12 x 35	5.00
SS165	Brass	M8 x 16	1.75
SS140	Brass	M10 x 25	2.50
SS145	Brass	M10 x 35	3.20
SS150	Brass	M12 x 25	3.80
SS155	Brass	M12 x 35	4.70
SS235	Stainless Steel 316	M8 x 20	1.23
SS240	Stainless Steel 316	M10 x 25	2.57
SS245	Stainless Steel 316	M10 x 35	3.07
SS250	Stainless Steel 316	M12 x 25	3.66
SS255	Stainless Steel 316	M12 x 35	4.38

Conductor network
Accessories

Plastic wall plugs

Part no.	Colour	Size	Weight per 100 (kg)
PS305	Red	No.10	0.06
PS310	Brown	No.12	0.06

Hexagon nuts

Part no.	Material	Size	Weight per 100 (kg)
NU367	Phosphor bronze	M10	1.25
NU370	Phosphor bronze	M12	1.80
NU165	Brass	M6	0.25
NU166	Brass	M8	0.80
NU167	Brass	M10	1.15
NU170	Brass	M12	1.65
NU265	Stainless Steel 316	M6	0.25
NU266	Stainless Steel 316	M8	0.52
NU267	Stainless Steel 316	M10	1.16
NU270	Stainless Steel 316	M12	1.73

Roundhead rivets

Part no.	Material	Size (mm)	Weight per 100 (kg)
RV105	Copper	5 x 12	0.35
RV110	Copper	5 x 20	0.45
RV005	Aluminium	5 x 12	0.12
RV010	Aluminium	5 x 20	0.15

Spring washers

Part no.	Material	Size (mm)	Weight per 100 (kg)
WS365	Phosphor bronze	6	0.04
WS367	Phosphor bronze	10	0.20
WS370	Phosphor bronze	12	0.20
WS265	Stainless steel 316	6	0.04
WS266	Stainless steel 316	8	0.10
WS267	Stainless steel 316	10	0.20
WS270	Stainless steel 316	12	0.23

Conductor network
Accessories

Masonry drills

Part no.	Size	Weight each (kg)
DL005	No.10	0.02
DL010	No.12	0.02

Roundhead copper nails

Part no.	Length (mm)	Weight per 100 (kg)
NA005	50	0.70

Plain washers

Part no.	Material	Size (mm)	Weight per 100 (kg)
WR365	Phosphor bronze	6	0.05
WR367	Phosphor bronze	10	0.25
WR370	Phosphor bronze	12	0.50
WR165	Brass	6	0.05
WR175	Brass	8	0.15
WR167	Brass	10	0.25
WR170	Brass	12	0.50
WR265	Stainless Steel 316	6	0.06
WR266	Stainless Steel 316	8	0.11
WR267	Stainless Steel 316	10	0.21
WR270	Stainless Steel 316	12	0.34

Insulating tape

Part no.	Size	Weight each (kg)
TP120-FU	25 mm x 33 m	0.14

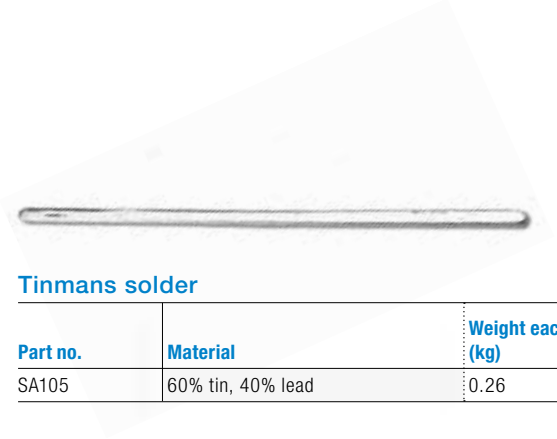
– Green/yellow general purpose insulating tape

Conductor network
Accessories

Denso tape

Part no.	Size	Weight each (kg)
TD005	50 mm x 10 m	0.76

– A waterproof tape for wrapping underground joints
– COSHH datasheet available on request



Tinmans solder

Part no.	Material	Weight each (kg)
SA105	60% tin, 40% lead	0.26

Silfos

Part no.	Coil size	Thickness (mm)	Weight each (kg)
FS005	50 mm x 8 m	0.12	0.50

– An alloy of silver, phosphorous and copper. Used to braze copper in air without the use of Flux
– CoSHH datasheet available on request

Flux

Part no.	Material	Weight each (kg)
SA115	Flux	0.08

– Use with tinmans solder for general purpose soldering of copper products
– CoSHH datasheet available on request