NSI



LIGHTNING PROTECTION SYSTEM | 防雷系统

EARTHING SYSTEM | 接地系统

ELECTRICAL ACCESSORIES | 电器配件



COMPANY PROFILE

New Starlight Industries (NSI) is a Singapore incorporated company established since 1970s. We are manufacturer of Lightning Protection & Earthing System and various Electrical Accessories, marketed under our own brand name NSI.

Our products are manufactured and tested in strict accordance to international and local standards such as SS 555:2018 / IEC 62305 (Protection Against Lightning), IEC 62561 (Lightning Protection System Components), SS 551:2009 (Code of practice for earthing), SS 322:2015 (Singapore Standard Specification for Earthing and Bonding), IEC 60998-1 & IEC 60998-2-1 (International Electrotechnical Commission) and other industry codes and specifications as applicable.

By having our own manufacturing facilities in Singapore, we ensure quality consistency to our products & offer fast & flexible response to customers' requirement for customized products. Over the years, we have accumulated excellent track records and gained outstanding reputation in the market as manufacturer of top-notch quality lightning protection & earthing products and electrical accessories.

Our company philosophy is: "Business with Integrity"

新星光工业 (简称 NSI) 是建立于 1970 年代的新加坡注册公司。我们是专业从事防雷与接地系统和各种电器配件的制造商。

我们的产品设计严格的符合国际和新加坡标准,如 SS 555:2018 / IEC 62305 (防雷系统规范),IEC 62561 (防雷系统组件规范), SS 551:2009 (接地系统规范), SS 322:2015 (接地规范和测试粘接),IEC 60998-1 & IEC 60998-2-1 (国际电工委员会标准)和其他业内适用的规范。

我们在新加坡拥有自己的生产设施,因此可以保证我们产品质量的一致性并且能快速和灵活的供应客户各种定制产品的需求。多年来,我们已积累了良好的记录,并取得市场上卓越的信誉,成为新加坡杰出品质的防雷与接地系统和电器配件的制造商。

我们的公司经营理念是:"诚信经商"



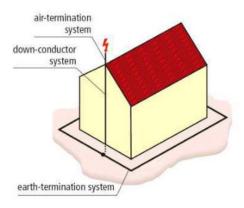
LIGHTNING PROTECTION SYSTEM

An external Lightning Protection System (LPS) is intended to:

- intercept a lightning current to the structure (with an air-termination system);
- conduct the lightning current safely towards earth (using a down-conductor system);
- disperse the lightning current into the earth (using an earth-termination system).

Components of Lightning Protection System

- (i) Air Termination Network
- (ii) Down Conductors
- (iii) Earth Termination



AIR TERMINATION NETWORK

Air termination network is made up of vertical air terminals and / or a lattice of copper conductors mounted on the roof and edges of the structure to protect the structure from a lightning strike.

Protection Level

There are four levels of lightning protection. Level I is the highest degree of protection. For the purpose of complying with Singapore Building Control Regulations, a minimum of Class III LPS is required.

Class of LPS	Rolling Sphere	Roof Mesh	Down Conductor
	Radius <i>r</i>	Conductors	Spacing
1	20	5 x 5	10
II	30	10 x 10	10
III	45	15 x 15	15
IV	60	20 x 20	20

Table 1

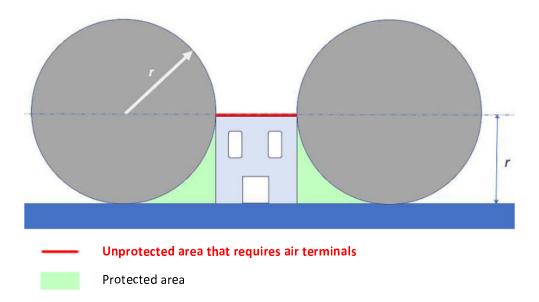


Rolling Sphere Method

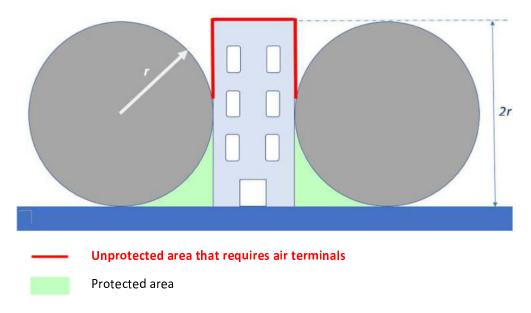
In the rolling sphere method, a sphere of radius *r* imagined to be rolling over the structure. Parts of the building touched by the sphere are at risk and requires air terminals; portions that aren't touched are safe.

Examples

1) Sphere is rolled over a building whose height is equal or less then the sphere radius:



2) Sphere is rolled over a building whose height is greater then the sphere radius:





DOWN CONDUCTORS

Air terminals should be connected to as many down conductors as possible. Lightning rods on a house should be connected to at least two down conductors (at opposite corners of the house for example). Separation distance of the down conductors has to be in accordance to the Class of LPS based on *Table 1*.



EARTH TERMINATION SYSTEM



Each down conductor must have a separate earth termination. Provision should be made in each down conductor for disconnection from the earth for testing purposes.

There are two basic earth electrode arrangements being used:

- 1. Type A arrangement: consists of horizontal or vertical earth electrodes, connected to each down conductor fixed on the outside of the structure. The total number of earth electrodes shall not be less than two.
- 2. Type B arrangement: a ring earth electrode that is sited around the periphery of the structure.

BONDING

All metal work, including water pipes, gas pipes, handrails, air conditioning units, metal cladding, metal roofs etc, in the vicinity of the LPS must be bonded to it, to avoid the danger of side flashing.

For the same reason, the LPS earth should be bonded to the main electrical earth, as well as any other earthing system present in the structure.



INSPECTION & MAINTENANCE OF LPS

All LPS systems should be inspected:

- (i) During the installation of the LPS, paying particular attention to those components which will ultimately become concealed within the structure and unlikely to be accessible for further inspection.
- (ii) After the LPS installation has been completed

LPS should be checked on a regular basis to ensure its effectiveness.



DESIGN STANDARD

The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees).

Singapore Standard SS 555: 2018 is a modified adoption of IEC 62305 and defines the general principles to be followed for protection of structures against lightning, including their installations and contents, as well as persons.

SS 555 - Protection against Lightning **IEC 62305** - Protection Against Lightning

Part 1: General Principles

(Exclude railway system, vehicles, ships, aircraft, offshore, underground high pressure pipelines, pipe, power and telecommunication lines not connected to a structure)

Part 2: Risk Management

Part 3: Physical Damage to Structures and Life Hazard
Part 4: Electrical and Electronic Systems within Structures

PRODUCT STANDARD

IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC) used for the installation of a LPS designed and implemented according to the IEC 62305 standards

IEC 62561 - Lightning Protection System Components (LPSC)

Part 1: Requirements for connection components

Part 2: Requirements for Conductors and Earth Electrodes

Part 3: Requirements for Isolating Spark Gaps

Part 4: Requirements for Conductor Fasteners

Part 5: Requirements for Earth Electrode Inspections Housings and Earth Electrode Seals

Part 6: Requirements for Lightning Strike Counters (LSC)

Part 7: Requirements for Earthing Enhancing Compounds



AIR TERMINAL



Model	Material	Diameter Ø	Height
Al-300-16	Aluminium	16mm	300mm
Al-500-16	Aluminium	16mm	500mm
Al-600-16	Aluminium	16mm	600mm
Al-1000-16	Aluminium	16mm	1000mm
Cu-300-16	Copper	16mm	300mm
Cu-500-16	Copper	16mm	500mm
Cu-600-16	Copper	16mm	600mm
Cu-1000-16	Copper	16mm	1000mm

Note: Custom fabricated height available

AIR TERMINAL FIXING BASE



FLAT BASE

Model	Material	Terminal Thread	Conductor Width
Al-16	Aluminium Alloy	5/8"	25mm
GM-16	Copper Alloy	5/8"	25mm

Application: To support air terminal on flat roof surfaces



SLANT BASE

Model	Material	Terminal Thread	Conductor Width
Al-16S	Aluminium Alloy	5/8"	25mm
GM-16S	Copper Alloy	5/8"	25mm

Application: To support air terminal on roof ridges



SIDE MOUNT AIR TERMINAL BRACKET



Model	Material	Terminal Ø	Width
Al-16sm	Aluminium Alloy	16mm	25mm
Br-16sm	Copper Alloy	16mm	25mm

Application: For fixing air terminal onto side of the building where it is not possible to mount on roof

AIR TERMINAL TO TAPE COUPLING



Model	Material	Terminal Thread	Conductor Width
Al-16c	Aluminium Alloy	5/8"	25mm
Br-16c	Copper Alloy	5/8"	25mm

Application: For connecting flat tape to side mount air terminal

STRIKE PAD



Model	Material	Thread	Diameter
AL-Stk	Aluminium Alloy	5/8"	100mm
Br-Stk	Copper Alloy	5/8"	100mm

Application: As an exposed attractive point on roof or side of building for hidden/embedded conductor



CONDUCTING FLAT TAPE



Model	Material	Size	C.S.A
Al-253	Aluminium	25x3mm	75mm²
Cu-253	Copper	25x3mm	75mm ²

Note: Custom sizes/lengths available

PVC COVERED FLAT TAPE



Model	Material	Size	C.S.A
Al-253PC	Aluminium	25x3mm	75mm ²
Cu-253PC	Copper	25x3mm	75m m ²

NON-METALLIC DC TAPE CLIP



Model	Material	Conductor Size
PDC-1	Polypropylene	25x3mm
PDC-2	Polypropylene	PVC Covered 25x3mm

HEAVY DUTY DC TAPE CLIP



Al-315DC Aluminium Alloy 25x3mm	Model	Material	Conductor Size
P.: 34 FD C	Al-315DC	Aluminium Alloy	25x3mm
Br-315DC Copper Alloy 25X3mm	Br-315DC	Copper Alloy	25x3mm



TAPE CLIP & SADDLE



Model	Material	Conductor Size
Al-315	Aluminium Alloy	25x3mm
Br-315	Copper Alloy	25x3mm

SQUARE TEST & JUNCTION CLAMP



TAPE TO TAPE

Model	Material	Conductor Size
Al-SQ	Aluminium Alloy	25x3mm
Br-SQ	Copper Alloy	25x3mm

Application: To form cross, tee, through or right angle joints between overlapping flat tapes



TAPE TO CABLE

Model	Material	Tape Size	Cable Size
GM-SQ	Gunmetal	25x3mm	Up to 70mm2

Application: To form cross, tee, through or right angle joints between flat tape and cable

ROUND TEST & JUNCTION CLAMP



Model	Material	Diameter Ø	Conductor Width
GM-R	Gunmetal	175mm	25mm

Application: To form a disconnecting link between down conductor and earthing system



OBLONG CLAMP



Model	Material	Conductor Size	
OBL	Copper Alloy	25 x 3-6 mm	

Application: To form through joints between overlapping flat tapes

TAPE SADDLE ROOF CLIP



'U' CLIP

Model	Material	Width	Height	
SRU-Al	Alum. Alloy	25mm	25mm	
SRU-Br	Copper Alloy	25mm	25mm	

Application: To hold conductor on clip lock roof **Note:** Custom fabricated shapes/sizes available



'L' CLIP

Model	Material	Length
SRL-Al	Alum. Alloy	240mm
SRL-Br	Copper Alloy	240mm

 $\label{prop:section} \textbf{Application:} \ \text{Slot} \ \text{in between overlapping tiles to hold conductor on tiled roof}$

Note: Custom fabricated shapes/sizes available



'SEMI-CIRCLE' CLIP

Model	Material	Length
SRSC-Al	Alum. Alloy	340mm
SRSC-Br	Copper Alloy	340mm

Application: To hold conductor on tiled roof ridge **Note:** Custom fabricated shapes/sizes available



GLAZING BAR HOLDFAST



Model	Material	Dimensions
GBH-Al	Aluminium Alloy	Made to measure
GBH-Br	Copper Alloy	Made to measure

Application: To hold conductor onto structure sections that cannot be drilled

BACK PLATE HOLDFAST



Model	Material	Height
BPH-Al	Aluminium Alloy	Made to measure
BPH-Br	Copper Alloy	Made to measure

 $\label{eq:Application: To hold the conductor away from building surface} \begin{picture}(100,00) \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100$

B-BOND



Model	Material	Conductor Size
Al-25	Aluminium Alloy	25x3mm
GM-25	Gunmetal	25x3mm

Application: To bond flat tape to steel structures

CABLE CLIP & SADDLE



Model	Material	Cable Size
CS-Al	Aluminium Alloy	50mm2, 70mm2
CS-Br	Copper Alloy	50mm2, 70mm2

Note: Custom fabricated sizes available



TEST LINK BOX



Model	Material	Dimensions
TLB-125	Aluminium Cover/Frame Galvanised Steel Base	125x125x40mm
TLB-125NM	Aluminium (Non-Magnetic)	125x125x40mm

Application: As an access point for monitoring/testing concealed lightning protection system

BIMETALLIC CONNECTOR



ALUMINIUM - COPPER

Model	Material	Conductor Size
Bi-20	Aluminium & Copper	25x3mm

Application: To connect aluminium and copper conductors



COPPER - COPPER

Model	Material	Conductor Size
Bi-Cu2	Copper	25x3mm

Application: To connect copper conductors



PIPE BONDING CLAMP



Model	Material	Diameter
BC-1246	Body: Electroplated Copper Alloy Strap: Stainless Steel Warning Label: Aluminium	1"/ 2"/ 3"/ 4"/ 6"/ 8"/ 10"/ 12"

Note: Custom length available



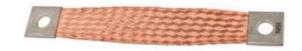
COPPER BRAID



Model	Material	Conductor Size
Brd253	Copper	25x3mm
Brd253T	Tinned Copper	25x3mm

Application: For bonding metal gates, doors, fences etc

Note: Custom size/length available



LPS WARNING SIGN



Model	Material	Size	
LWS	Aluminium	210x300mm	

Application: Display at entrances to roof-top area to alert people of lightning danger





EARTH ROD



Model	Material	Thread	Length
ER-586	Copper Coated Steel	5/8"	1800mm
ER-346	Copper Coated Steel	3/4"	1800mm
CR-58L	Copper	5/8"	Custom
CR-34L	Copper	3/4"	Custom

EARTH ROD COUPLING



Model	Material	Thread
AB-70	Copper Alloy	5/8"
AB-7034	Copper Alloy	3/4"

EARTH ROD DRIVING STUD



Model	Material	Thread
DS-58	Hardened Steel	5/8"
DS-34	Hardened Steel	3/4"

Application: Protects the top of the rod from damage when being driven into the ground

EARTH ROD SPIKE



Model	Material	Thread	
ERSP	Copper Alloy	5/8"	
ERSP34	Copper Alloy	3/4"	

Application: Enables rod to be driven easily into the ground



EARTH ROD END CAP



Model	Material	Size
ECP	Copper Alloy	5/8" or 3/4"
PECP	PVC	5/8" or 3/4"

EARTH PLATE



Material	Size	
Copper	Custom fabricate	

Application: Used where earth rod installations are not suitable

EARTH LATTICE MAT



Material	Size	Grid
Copper	600mm x 600mm	5 bar

Application: As a more economical option to copper earth plate, installed for step & touch voltage avoidance

GROUND ENHANCEMENT COMPOUND



Weight	Packaging
25lbs / 11.36kg	Bag with handle

Application: Use for achieving lower earth electrode resistance



ROD TO TAPE CLAMP c/w warning label



M od el	Material	Rod Size	Flat Tape Size
A-RT	Copper Alloy	5/8"	25 x 3mm
A-RT34	Copper Alloy	3/4"	25 x 3mm

ROD TO CABLE CLAMP c/w warning label



Model	Material	Rod Size	Cable Size
B RC 16-25	Copper Alloy	5/8" or 3/4"	16 – 25mm2
B RC 50	Copper Alloy	5/8" or 3/4"	35 – 50mm2
B RC 70	Copper Alloy	5/8" or 3/4"	70mm2

Note: All cable sizes available

TAPE TO ROD TO TAPE CLAMP c/w warning label



Model	Material	Rod Size	Flat Tape Size
TRT	Copper Alloy	5/8" or 3/4"	25 x 3mm

TAPE TO ROD TO CABLE CLAMP c/w warning label



Model	Material	Rod Size	Cable Size
TRC	Copper Alloy	5/8" or 3/4"	16 – 300mm2

Note: All cable sizes available



ROD TO CABLE LUG CLAMP



Model	Material	Rod Size	Bolt Size
RCL58	Copper Alloy	5/8"	M12
RCL34	Copper Alloy	3/4"	M12

A CLAMP



Model	Material	Conductor
AC58	Copper Alloy	5/8" Rod to 25x3mm Flat tape

G CLAMP



Model	Material	Conductor
GC58	Copper Alloy	5/8" Rod to (16-70)mm2 Cable

C CLAMP



Model	Material	Cable Size
CC35	Copper	35mm2 – 35mm2
CC70	Copper	70mm2 – 70mm2
CC95	Copper	95mm2 – 95mm2
CC120	Copper	120mm2 – 120mm2
CC240	Copper	240mm2 – 240mm2

Note: Other sizes available



U BOLT CLAMP



2 PIECE SET

M od el	Material	Conductor
UBC-2	Copper Alloy	Tape to Rod/Rebar
		Cable to Rod/Rebar

Note: Custom sizes available



3 PIECE SET

Model	Material	Conductor
UBC-3	Copper Alloy	Tape to 2x Rod/Rebar
		Cable to 2x Rod/Rebar

Note: Custom sizes available

REBAR CLAMP



Model	Material	Rebar Size
RTR1	Galvanised Steel	T10-T10 / T13-T13 / T16-T16
RTR2	Galvanised Steel	T10-T20 / T13-T20
RR1	Galvanised Steel	T10-T10 / T13-T13 / T16-T16

Note: Custom sizes available



STATIC EARTH RECEPTACLE



Model	Material	Diameter	Stem
SER	Copper Alloy	100mm	10.7mm(70mm2)

Application: As a static discharge point for aircrafts, tankers, vehicles and boats

FOUR HOLE EARTH POINT



Model	Material	Stem Diameter
4HEP	Copper Alloy	10.7mm (70mm2)

Application: Cast in concrete as connection point for rebar to

earthing or lightning protection system

Optional: Available with pre-welded earth cable or rebar

EARTH BOSS



Model	Material	Size	Thread
EBCS	Carbon Steel	OD 50 x H 50mm	M12
EB304	Stainless Steel 304	OD 40 x H 40mm OD 50 x H 50mm	M8 or M10 M12
EB316	Stainless Steel 316	OD 50 x H 50mm	M12

Application: Welded onto vessels, tanks or other steel structures as an earth connection point

Note: Custom sizes available



EARTH INSPECTION PIT



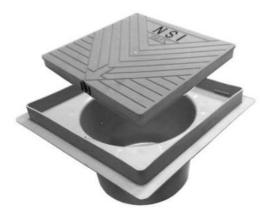
PVC BOX C/W HDG FRAME & COVER

Model	Material	Size
99-66 (9")	Base – Hi Grade Polymer Cover + Frame – Hot Dipped Galvanised	L 250 x W 250 x H 200mm
99-66 (6")	Base – Hi Grade Polymer Cover + Frame – Hot Dipped Galvanised	L 180 x W 180 x H 170mm



PVC BOX C/W HDG COVER

Model	Material	Size
PB-99 +	Base – Hi Grade Polymer	L 260 x W 260 x
99-66	Cover – Hot Dipped Galvanised	H 170mm



FULL PVC

Model	Material	Size
PB-99 +	Base – Hi Grade Polymer	L 260 x W 260 x
PC-99	Cover – Hi Grade Polymer	H 170mm



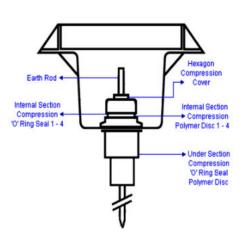
EARTH INSPECTION PIT





Туре	Material	Size
Square	Concrete	L 280 x W 280 x H 200mm
Round	Concrete	OD 300 x H 200mm





EARTH PIT C/W ROD WATERPROOF SEALS

Model	Material	Rod Size
WPS-1	Hi Grade Polymer	14.2mm



EXOTHERMIC WELDING



MOULD SET & WELDING POWDER

Item	Model
Mould	Base on connection required
Handle Clamp	B104 / B105
Flint Gun	FG1



WELDING POWDER

Item	Model
Welding Powder	#65 / #90 / #115 / #150 / #200 / #250

Note: Other sizes powder available

INSTALLATION INSTRUCTIONS



Position cleaned conductors in mold.



Place a small amount of starting powder in the ignition pocket.



Place metal disc in bottom of mold crucible.



Ignite the starting powder with the Flint Ignitor.



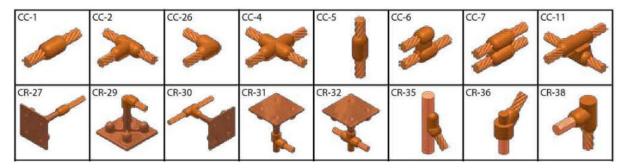
Pour powder into crucible.



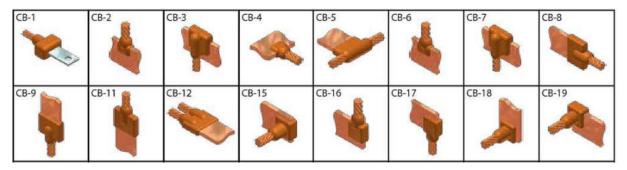
Remove weld and clean mold before making next connection.



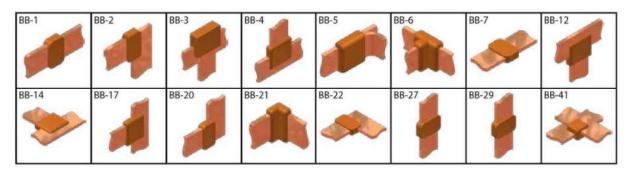
Cable to Cable / Round Rod



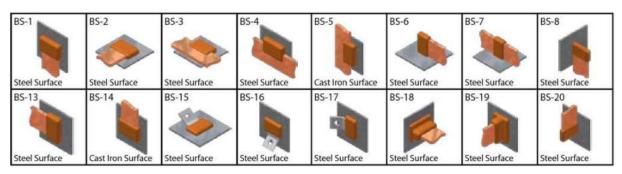
Flat Tape to Cable / Rebar



Flat Tape to Flat Tape



Flat Tape to Steel Plate



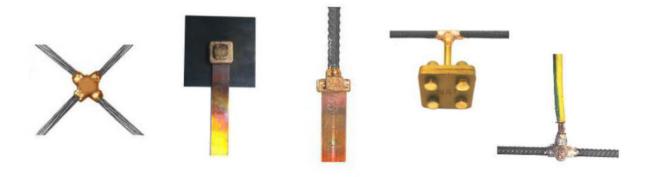


EXOTHERMIC WELDING



PRE-WELDED JOINTS

Model	Material
All kinds of joints available	Copper Tape / Copper plate / Rebar / Steel plate / Cable etc.



POTENTIAL EQUALIZATION CLAMP

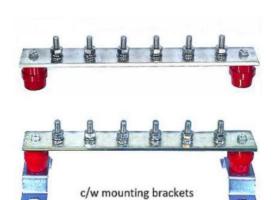


Model	Spark Over Voltage	Max Discharge Current
PEC-100	350V	100kA

Application: Equipotential device used to minimize damage in applications where separated ground systems are required



TINNED COPPER BUSBAR



NEUTRAL BUSBAR c/w insulators

Model	Material	No. of ways	Bolt Size
25x6N	Tinned Copper	4/6/8/10/12	M8
50x6N	Tinned Copper	4/6/8/10/12	M10

Note: Custom size / number of ways available **Optional:** Available with mounting brackets



EARTH BUSBAR

Model	Material	No. of ways	Bolt Size
25x6E	Tinned Copper	4/6/8/10/12	M8

Note: Custom size / number of ways available



DISCONNECTING LINK

Model	Material	Bolt Size	
50x6DC	Tinned Copper	M10	

Note: Custom size available



INSULATOR

BBI35 Moulded Polyester OD 28mm x H 35mm
BBI40 Moulded Polyester OD 35mm x H 40mm
BBI51 Moulded Polyester OD 29mm x H 51mm
BBI76 Moulded Polyester OD 36mm x H 76mm

Note: Other sizes available



16A 3-WAY CABLE CONNECTOR



3-Way Cable Connector

Model	Specifications	
	Casing:	Fire Retardant Polycarbonate
	Plug & Socket:	Electroplated Copper Alloy
BC-2.5	Voltage Rating:	250V
	Current Rating:	16A
	Cable Size:	1.5 to 4mm ²
	In Compliance:	IEC-998-1 / IEC-998-2-1









3-Way (2-1) Cable Connector

Model	Specifications	
BC-321	Casing: Plug & Socket: Voltage Rating: Current Rating: Cable Size: In Compliance:	Fire Retardant Polycarbonate Electroplated Copper Alloy 250V 16A 1.5 to 2.5mm ² IEC-998-1 / IEC-998-2-1

Incoming:







3-Way (2-2) Cable Connector

Model	Specifications	
	Casing:	Fire Retardant Polycarbonate
	Plug & Socket:	Electroplated Copper Alloy
BC-6	Voltage Rating:	250V
	Current Rating:	16A
	Cable Size:	1.5 to 2.5mm ²
	In Compliance:	IEC-998-1 / IEC-998-2-1

Incoming:



Outgoing:



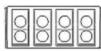


16A 4-WAY CABLE CONNECTOR



4-Way (2-1) Cable Connector

Model	Specifications	
	Casing:	Fire Retardant Polycarbonate
	Plug & Socket:	Electroplated Copper Alloy
BC-421	Voltage Rating:	250V
	Current Rating:	16A
	Cable Size:	1.5 to 2.5mm ²
	In Compliance:	IEC-998-1 / IEC-998-2-1







4-Way (2-2) Cable Connector

Model	Specifications	
	Casing:	Fire Retardant Polycarbonate
	Plug & Socket:	Electroplated Copper Alloy
BC-8A	Voltage Rating:	250V
	Current Rating:	16A
	Cable Size:	1.5 to 2.5mm ²
	In Compliance:	IEC-998-1 / IEC-998-2-1









(1-1) Terminal Connector

Model	Specifications	
	Casing:	Fire Retardant Polycarbonate
	Connection:	Electroplated Copper Alloy
C-ON-1	Voltage Rating:	250/415V
	Current Rating:	60A
	Cable Size:	16 – 25mm ²



(1-2) Terminal Connector

Model	Specifications	
TC-122	Casing: Connection: Voltage Rating: Current Rating: Cable Size:	Fire Retardant Polycarbonate Electroplated Copper Alloy 250/415V 60A 1 x 25mm² (Incoming) 2 x 16mm² (outgoing)



(1-4) Terminal Connector

Model	Specifications	
	Casing:	Fire Retardant Polycarbonate
	Connection:	Electroplated Copper Alloy
TC 124	Voltage Rating:	250/415V
TC-124	Current Rating:	60A
	Cable Size:	1 x 25mm ² (Incoming)
		4 x 16mm² (outgoing)



(2-3) Terminal Connector

Model	Specifications	
TC-223	Casing:	Fire Retardant Polycarbonate
	Connection:	Electroplated Copper Alloy
	Voltage Rating:	250/415V
	Current Rating:	100A
	Cable Size:	2 x 35mm ² (Incoming)
		3 x 16mm ² (outgoing)







Terminal Connector

Model	Specifications	
TC-444	Casing:	Bakelite
	Connection:	Electroplated Copper Alloy
	Voltage Rating:	250/415V
	Current Rating:	60A
	Cable Size:	1 x 25mm ²
		3 x 25mm ²





Terminal Connector

Model	Specifications	
	Casing:	Bakelite
	Connection:	Electroplated Copper Alloy
TC-555	Voltage Rating:	250/415V
10-555	Current Rating:	100A
	Cable Size:	1 x 50mm ² (Incoming)
		4 x 35mm ² (outgoing)



Terminal Connector

Model	Specifications	
_	Casing:	Fire Retardant Polycarbonate
	Connection:	Electroplated Copper Alloy
UK 160	Voltage Rating:	250/415V
UK-160	Current Rating:	160A
	Cable Size:	1 x 70mm ² + 1 x 16mm ² (Incoming)
		6 x 16mm² (outgoing)



4-Pole Terminal Block

Current Rating	Туре
60A / 100A / 150A / 200A	Panel Mounted



EARTH & NEUTRAL LINK





Туре	Cable Size
Earth	10mm ² / 16mm ² / 25mm ² / 35mm ²
Neutral c/w insulators	10mm ² / 16mm ² / 25mm ² / 35mm ²

Note: Custom number of ways available

DINRAIL



Material	Length
Galvanised Steel	1 Metre
Aluminium	1 Metre

MCB BUSBAR



Model	Material	No. of pole	Current Rating
Pin	Copper	1/2/3/4	100A
Fork	Copper	1/2/3/4	100A



KNOCK OUT BOXES



Galvanised KO Box

Туре	Material	Height
1-Gang / 2-Gang	Galvanised Steel	35mm
1-Gang / 2-Gang c/w extension	Galvanised Steel	50mm / 70mm



Household Shelter KO Box

Туре	Material
1-Gang / 2-Gang	Stainless Steel
1-Gang / 2-Gang	Hot-Dipped Galvanised
2G + 1G + 1G	Hot-Dipped Galvanised

Note: Custom combinations available

EARTH POINT



Туре	Material	Screw Size
Square	Copper Alloy	M3
Cylinder	Copper Alloy	M4

Application: Provide earthing point within K.O. Box

EARTH TAG



Size	Material	Fittings
20 / 25 / 32 mm	Copper Alloy	c/w brass screw & washer



BAR SADDLE



Material	Size
Hot-Dipped Galvanised c/w SS304 screws	20mm / 25mm
Galvanised Steel	20mm / 25mm, ¾" , 1" , 1 ¼" , 1 ½"

PLAIN SADDLE



Material	Size
Galvanised Steel	20mm / 25mm

HALF SADDLE



Material	Size
Galvanised Steel	3/8", 5/8", ¾", 1", 1 ¼"

PVC BUSH



Material	Size
PVC	5/8", 3/4", 1", 1 ¼", 1 ½", 2"

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CEILING PLATE



Material	Size
Galvanised Steel	5/8" , 3/4" , 1"

DOME COVER



Material	Size
Galvanised Steel	3/4" , 1" , 20mm

BALL & SOCKET



Material	Size
Galvanised Steel	3/4" , 20mm



ROUND BOX COVER



Material	Mounting Centre
Hot-Dipped Galvanised (Class 4)	50.8mm
Galvanised Steel	50.8mm / 71.5mm

Note: Custom size available

G.I. KO BOX COVER



Туре	Material	Mounting Centre
1-Gang	Galvanised Steel	60.3mm
2-Gang	Galvanised Steel	120.6mm

FIXING SCREWS



Material	Size
	2BA x 5mm/ 8mm/ 10mm/ 19mm
Galvanised Steel	4BA x 12mm
	M4 x 4mm/ 8mm/ 10mm/ 12mm

Note: Other sizes available



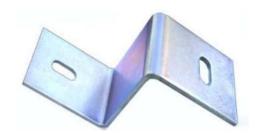
TRUNKING/ CABLE TRAY LINK



Туре	Material	Size
Cable Tray	Copper	Adjustable to fit all sizes
Trunking	Copper	Adjustable to fit all sizes

Note: Custom dimensions available

Z BRACKET



Material	Height
Galvanised Steel	2" , 2 ½" , 3"

COPPER PIPE PLAIN SADDLE



Material	Size	
Copper	Custom make	

COPPER EARTH CLIP



Material	Pipe Diameter
Copper	16 / 20 / 25 / 32 mm ½" , ¾" , 1" , 1 ¼" , 1 ½" , 2"

Note: Custom dimensions available



BIMETALLIC CABLE LUG



Material	Cable Size
Copper-Aluminium	16 / 25 / 35 / 50 / 70 / 95 / 120 / 150 / 185 / 240 / 300 / 400 / 500 / 630 mm ²

Note: All cable sizes available

HIGH TENSION CABLE CLAMP



30 – 40 mm 40 – 50 mm 50 – 60 mm 60 – 70 mm 70 – 80 mm 80 – 90 mm 90 – 100 mm 100 – 110mm	Material	Cable Size
	Aluminium Alloy	40 – 50 mm 50 – 60 mm 60 – 70 mm 70 – 80 mm 80 – 90 mm 90 – 100 mm

13A WEATHER PROOF SWITCH SOCKET



Model	Specifications	
8399 (1-Gang)	Current Rating: Current Rating: Protection Rating:	13A 250V !P66



A+B EPO PUTTY



Weight	Application
500g	Use for bonding of steel and concrete materials;
	applicable on both wet and dry surfaces

ANTI OXIDE COMPOUND



Weight	Application
100g	For use on Copper-Aluminium or Aluminium- Aluminium joints to prevent oxidation / galvanic corrosion of copper and aluminium. Also to reduce contact resistance and provide efficient electrical contact

SOLDER / FLUX PASTE



Weight	Application
250g	Use for soft soldering / tinning of copper



CABLE MARKER





Material	Wording	Size
Stainless Steel	Custom make	Custom make
Aluminium	Custom make	Custom make

HANDLAMP c/w PROTECTION NET



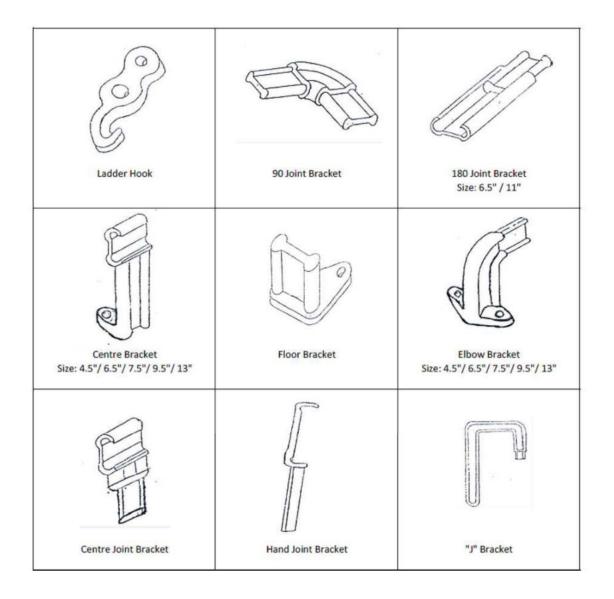
Model	Material	Туре
ES	PVC Handle c/w steel wired protection net	E27 lamp holder
ВС	PVC Handle c/w steel wired protection net	B22 lamp holder

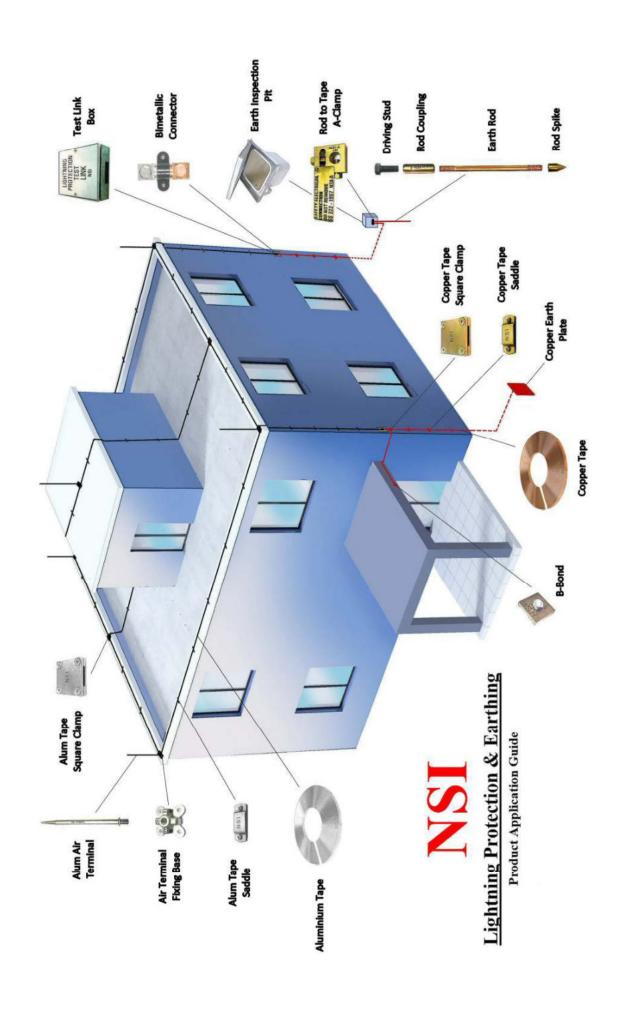


CAT LADDER BRACKET



Model	Material	Size
Centre Bracket	Casted Aluminium	4.5"/ 6.5"/ 7.5"/ 9.5"/ 13"
Elbow Bracket	Casted Aluminium	4.5"/ 6.5"/ 7.5"/ 9.5"/ 13"
Floor Bracket	Casted Aluminium	Standard
Joint Bracket	Casted Aluminium	90°/ 180°/ Centre/ Hand
Ladder Hook	Casted Aluminium	Standard





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