



# EARTHING & GROUNDING

CATALOGUE - 2020



SCHIRTEC®

## ABOUT US

Schirtec is a decade old company has grown by leaps & bounds through Its excellent working staff & technology updates at regular intervals.

Schirtec is today the leading and one of the largest manufacturer of Earthing, Lightning Protection & Cable Accessories. Extensive know-how in the field of Earthing & lightning Protection, strong R&D activity and continuous innovation in manufacturing technologies and product specification, allows Nexus to respond quickly to an increasingly demanding market offering high-quality products that are reliable, durable , safe at competitive rates.

Schirtec products are manufactured strictly by the specifications and designs laid by accepted International Standards. Wide product range, expert and efficient international sales network and sharp focus on customer needs represent the strengths of the Group and ensure a significant competitive advantage in a continuously evolving global market.

Schirtec being the manufacturer has a total control over the quality of the products right from the raw materials to the finished products. Rigorous quality testing and control is enforced. Only that material which passes the rigid norms, finds its way into the market.



## SOLID COPPER EARTH ROD

solid copper earth rod are made from 99.9% pure electrolytic copper. Solid copper rods offers greater resistance to corrosion. They are ideally used in applications where soil conditions are very aggressive, for eg. soil with high salt content.



**EARTHING**

PRODUCT CODE	INTERNAL THREAD SIZE (MM)	DIA (MM)	LENGTH (MM)	WEIGHT (KG)
NCS1612	M10	16	1200	2.05
NCS1615	M10	16	1500	2.50
NCS1618	M10	16	1800	3.00
NCS1624	M10	16	2400	4.00
NCS1630	M10	16	3000	5.00
NCS2012	M10	20	1200	3.35
NCS2015	M10	20	1500	4.20
NCS2018	M10	20	1800	5.04
NCS2024	M10	20	2400	6.72
NCS2030	M10	20	3000	8.40
NCS2512	M10	25	1200	5.20
NCS2515	M10	25	1500	6.50
NCS2518	M10	25	1800	7.80
NCS2524	M10	25	2400	10.40
NCS2530	M10	25	3000	12.95

**Material: Cu-ETP, UNS C11000, BS C101**



## DRIVING HEAD

driving heads are designed to protect the internal thread and top of the earth rod when being driven in to the ground.

PRODUCT CODE	THREAD DIA (MM)	LENGTH (MM)	WEIGHT (KG)
NDH16S	10	40	0.02
NDH20S	10	42	0.05
NDH25S	10	45	0.09
NDH16G	10	40	0.02
NDH20G	10	42	0.05
NDH25G	10	45	0.09

Material: Stainless Steel / Galvanized Steel



## COUPLING DOWEL

coupling dowels are used to join earth rod.

PRODUCT CODE	THREAD DIA (MM)	LENGTH (MM)	WEIGHT (KG)
NCD10S	10	40	0.02
NCD10B	10	40	0.02

Material: Stainless Steel / Brass



## DRIVING SPIKE

driving spikes are designed to enable the earth rod to be driven in to the ground easily and protects the rod from being damaged.

PRODUCT CODE	THREAD DIA (MM)	LENGTH (MM)	WEIGHT (KG)
NDS16S	10	40	0.02
NDS20S	10	55	0.05
NDS25S	10	60	0.10
NDS16G	10	40	0.02
NDS20G	10	55	0.05
NDS25G	10	60	0.10

Material: Stainless Steel / Galvanized Steel



## CONCRETE EARTH PIT

Material : Concrete  
 Dimensions : 310 mm (L)    310 mm (w)    170 mm (h)  
 Product Code : NCEP  
 Weight : 30kg

Concrete Earth Pit is suitable for load rating to 5000 kgs. and can have an internal Earth Bar (5 hole OR 7 hole) fitted diagonally across in slots provided for multiple connections. It is made with a proprietary mortar formulation with advanced polymer fibers & glass fibers for light weight, it also offers water resistance (low porosity) & high insulation properties, long life, stability under all weather conditions.

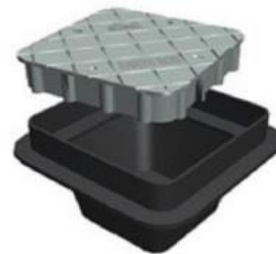


## EARTH PIT / HOUSING

Earth housing pit is manufactured from heavy high-grade polypropylene for high strength & stress levels to absorb a maximum load of 5000 kg. Stabilised against degradation by non-brittle and by sunlight to prevent cold weather damage. The light weight feature allows easy handling, storage and transportation, thus increasing installation efficiency. Termination area is increased by 100% due to simple locking of two units together, allowing deeper earth electrode connections to be made and reducing the effects from harmful voltage gradients.

Material : Plastic - Body & Cover  
 Product Code : NEP  
 Dimensions : 315 mm (L) 315 mm (w) 230mm (h)  
 Weight : 2.5 kgs

Material : Plastic Body & Metal Cover  
 Product Code : NEPM  
 Dimensions : 315 mm (L) 315 mm (w) 230mm (h)  
 Weight : 5.0 kgs



## EARTH ROD SEALS

The earth rod seal is fitted when the earth rod connection is below the water level and where there is a possibility of water entering the inspection housing from below around. earth seals are specifically designed to suit earth Rods of various diameters from 1/2" to 3/4". These seals are used along with Earth Pits.

Material : Plastic  
 Product Code : NCRS -1234 (Single) (Weight: 2kgs)  
                   NCRS-5678 (Double) (Weight: 3kgs)

P.S.: Please specify Earth Rod diameter to be used with.



## BENTONITE

Bentonite is a moisture retaining clay used as an earth electrode back-fill to help lower soil resistivity. The clay is a sodium activated montmorillonite, which when mixed with water swells to many times its original dry volume. Bentonite is supplied in powder form. It is a preferred option for pouring into bore holes to ensure the mixture is a thin enough consistency to reach the bottom of the hole. The typical expansion ratio when mixed with water is 2:1.

Prod. Code : NBEC 25



25 Kg.

## EARTH BARS FOR EARTH PITS

Earth Bars are used when multiple connections to the ground rod are required. They fit into the slots provided in the earth pits.

PRODUCT CODE	NO. OF HOLES	HOLES (MM)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)
NCEBC 05	5	12	290	30	6
NCEBC 07	7	12	290	30	6



Personalized Earth bars available on request as per customer specification.

**Material: Cu-ETP, UNS C11000, BS C101**

## SOLID COPPER PLATES

Solid copper plates are mainly used for grounding purposed earthing protection. They provide a long lasting solution where earth rods are not fit to be used. Nexus offers its customers a wide range of solid copper plates. Also known as earth plates or ground plates, which are fabricated out of electrolytic copper.

PRODUCT CODE	THICKNESS (mm)	LENGTH X WIDTH (MM)	WEIGHT (KG)
NCP60015	1.5	600 x 600	5.00
NCP60030	3.0	600 x 600	11.20
NCP60060	6.0	600 x 600	22.40
NCP90015	1.5	900 x 900	9.74
NCP90030	3.0	900 x 900	21.75
NCP90060	6.0	900 x 900	43.50



**Material: Cu-ETP, UNS C11000, BS C101**

OTHER SIZES AVAILABLE UPON REQUEST.  
Other Grades available on request.

## LATTICE COPPER EARTH MATS

Lattice copper earth mats are used where step potential could cause problems.

They are a lower cost option to the solid plates and when used with Bentonite, they provide a long lasting earth solution.

Generally used as an electrode where significant amounts of fault current can be encountered.

PRODUCT CODE	THICKNESS (mm)	LENGTH X WIDTH (MM)	GRID	WEIGHT (KG)
NLM500	3.0	500 x 500	4 BARS	3.60
NLM600	3.0	600 x 600	5 BARS	4.02
NLM900	3.0	900 x 900	5 BARS	6.03

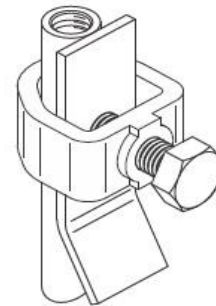


**Material: Cu-ETP, UNS C11000, BS C101**

OTHER SIZES AVAILABLE UPON REQUEST.

### ROD TO TAPE CLAMP : B TYPE

These clamps are made from copper alloy body which gives strong resistance to corrosion.

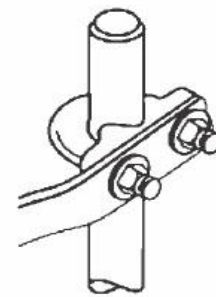


PRODUCT CODE	ROD DIA (MM)	MAX CONDUCTOR SIZE	WEIGHT (Kg)
NBC16	5/8 : 16	29 x 16	0.15
NBC20	3/4 : 20	29 x 13	
NBC16H	5/8 : 16	54 x 16	0.30
NBC20H	3/4 : 20	54 x 13	

**Material: Gunmetal**

### ROD TO TAPE CLAMP : U BOLT SINGLE PLATE TYPE

These are made from copper with gunmetal plate  
They can be supplied for all the rods from 5/8" to 1" and copper tape



PRODUCT CODE	ROD DIA (MM)	HOLE CENTRES (MM)	WEIGHT (Kg)
NUU16	5/8 : 16	37	0.20
NUU20	3/4 : 20	37	0.21
NUU25	1 : 25	37	0.22

**Material: Body - Gunmetal**

**'U' bolt material - Copper Alloy**



## OBLONG TEST CLAMP

These are used with bare copper tape conductor



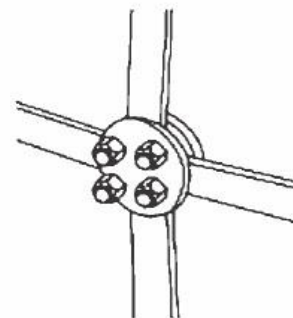
PRODUCT CODE	CONDUCTOR TYPE	CONDUCTOR SIZE (mm)	WEIGHT (Kg)
NOT253	COPPER	25 x 3	0.40
NOT316	COPPER	31 x 6	0.40
NOT506	COPPER	50 x 6	0.50

Material: Gunmetal

## TEST BOND / TEST CLAMP

These are used for 4-way copper tape connection.

PRODUCT CODE	CONDUCTOR DIA (mm)	CONDUCTOR MATERIAL	WEIGHT (Kg)
NTBC253	25X3	COPPER	0.90

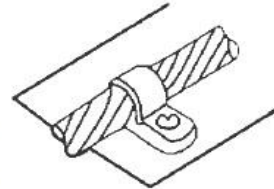


Material: Gunmetal.



### ONE HOLE CABLE CLIP : CIRCULAR CONDUCTOR

These are recommended to fix cable conductors

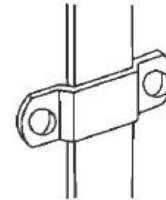


PRODUCT CODE	CONDUCTOR TYPE	CONDUCTOR DIA (mm)	WEIGHT (Kg)
NOH8	COPPER	8.0	0.01
NOH12	COPPER	12.0	0.01
NOH16	COPPER	16.0	0.02
NOH20	COPPER	20.0	0.02

Material: Copper

### TAPE CLIP : FLAT CONDUCTOR

These are used with bare copper tape



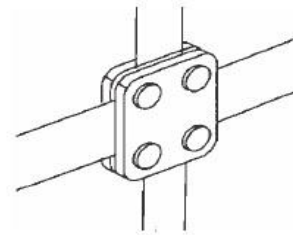
PRODUCT CODE	CONDUCTOR TYPE	CONDUCTOR SIZE (mm)	WEIGHT (Kg)
NTC203	BARE COPPER	20 x 3	0.02
NTC253	BARE COPPER	25 x 3	0.02
NTC253P	PVC COPPER	25 x 3	0.02

Material: Copper

### SQUARE CLAMP : FLAT CONDUCTOR

These are suitable for 4- way connections of copper tape.

The base has a countersunk hole in the middle for fixing the clamp in place.



PRODUCT CODE	CONDUCTOR TYPE	CONDUCTOR SIZE (mm)	WEIGHT (Kg)
NSQCC253	COPPER	25 x 3	0.23
NSQCC256	COPPER	25 x 6	0.44
NSQCC313	COPPER	31 x 3	0.30
NSQCC406	COPPER	40 x 6	0.79
NSQCC506	COPPER	50 x 6	1.00

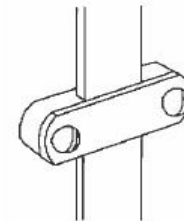
Material: Gunmetal

## DC TAPE CLIPS : FLAT CONDUCTOR

These are used with bare copper tape conductor

PRODUCT CODE	CONDUCTOR TYPE	CONDUCTOR SIZE	WEIGHT (Kg)
NDTC253	BARE COPPER	25 x 3	0.08
NDTC256	BARE COPPER	25 x 6	0.10
NDTC283	BARE COPPER	28 x 3	0.09
NDTC286	BARE COPPER	28 x 6	0.10
NDTC406	BARE COPPER	40 x 6	0.14
NDTC506	BARE COPPER	50 x 6	0.17

Material: Gunmetal



## HEAVY DUTY CAST CABLE SADDLE

These are used with 8 mm conductor or for supporting air terminals when used in conjunction with wall mounted air terminal base

PRODUCT CODE	CONDUCTOR TYPE	CONDUCTOR SIZE	WEIGHT (Kg)
NDTC502	BARE COPPER	50mm <sup>2</sup>	0.10
NDTC702	BARE COPPER	70mm <sup>2</sup>	0.10
NDTC952	BARE COPPER	95mm <sup>2</sup>	0.10
NDTC08	BARE COPPER	8mm	0.10

Material: Gunmetal



## BI - METALLIC CONNECTOR

These are used for joining aluminium and copper circular conductors, particularly when copper is used as Earthing in aluminium lightning protection systems.

Sr. No	PRODUCT CODE	APPLICATION	MATERIAL
1	NBI253	25 X 3	STAINLESS STEEL
2	NBI08	8 mm Dia	STAINLESS STEEL
3	NBI08253	25 x 3 to 8 mm Dia	STAINLESS STEEL
4	NBI8	8 mm Dia. Al to 8 mm Dia. Cu	COPPER / ALUMINIUM
5	NBI825	8 mm Dia. Al to 25 x 3 Cu Tape	COPPER / ALUMINIUM
6	NBI253	25 x 3 Al Tape to 25 x 3 Cu Tape	COPPER / ALUMINIUM

Other sizes available on request.



## DISCONNECTING LINKS

As periodic testing or inspections may require the isolation of earth connections this disconnecting link provides the means to do so.

PRODUCT CODE	L mm	W mm	H mm	Pack Qty.	Unit Wt. kg
NDL01	120	90	90	1	0.60

**Material :** 50x6 mm hard drawn copper bar  
**Base :** Steel Powder Coated (Colour - Black)  
**Fasteners :** Stainless Steel 316L (other grade on request)



## STANDARD EARTH BAR

PRODUCT CODE	DESCRIPTION	DIMANSIONS (MM) L x W x H
NEB6	6 WAY EARTH BAR	300 x 90 x 90
NEB8	8 WAY EARTH BAR	450 x 90 x 90
NEB10	10 WAY EARTH BAR	450 x 90 x 90
NEB12	12 WAY EARTH BAR	520 x 90 x 90
NEB14	14 WAY EARTH BAR	650 x 90 x 90
NEB16	16 WAY EARTH BAR	650 x 90 x 90
NEB18	18 WAY EARTH BAR	800 x 90 x 90
NEB20	20 WAY EARTH BAR	800 x 90 x 90
NEB22	22 WAY EARTH BAR	900 x 90 x 90
NEB24	24 WAY EARTH BAR	1050 x 90 x 90
NEB26	26 WAY EARTH BAR	1050 x 90 x 90
NEB28	28 WAY EARTH BAR	1250 x 90 x 90
NEB30	30 WAY EARTH BAR	1250 x 90 x 90

The standard connections are M10. Other sizes are available upon request.  
 Also available in Tin Plating on request.



**Material :** 50x6 mm hard drawn copper bar  
**Base :** Steel Powder Coated (Colour - Black)  
**Fasteners :** Stainless Steel 316L (other grade on request)

## SINGLE DISCONNECTING LINK

PRODUCT CODE	DESCRIPTION	DIMANSIONS (MM) L x W x H
NEB6-1	6 WAY EARTH BAR C/W SINGLE DISC. LINK	475 x 90 x 90
NEB8-1	8 WAY EARTH BAR C/W SINGLE DISC. LINK	575 x 90 x 90
NEB10-1	10 WAY EARTH BAR C/W SINGLE DISC. LINK	725 x 90 x 90
NEB12-1	12 WAY EARTH BAR C/W SINGLE DISC. LINK	825 x 90 x 90
NEB14-1	14 WAY EARTH BAR C/W SINGLE DISC. LINK	925 x 90 x 90
NEB16-1	16 WAY EARTH BAR C/W SINGLE DISC. LINK	1025 x 90 x 90
NEB18-1	18 WAY EARTH BAR C/W SINGLE DISC. LINK	1125 x 90 x 90
NEB20-1	20 WAY EARTH BAR C/W SINGLE DISC. LINK	1275 x 90 x 90
NEB22-1	22 WAY EARTH BAR C/W SINGLE DISC. LINK	1375 x 90 x 90
NEB24-1	24 WAY EARTH BAR C/W SINGLE DISC. LINK	1475 x 90 x 90
NEB26-1	26 WAY EARTH BAR C/W SINGLE DISC. LINK	1575 x 90 x 90
NEB28-1	28 WAY EARTH BAR C/W SINGLE DISC. LINK	1725 x 90 x 90
NEB30-1	30 WAY EARTH BAR C/W SINGLE DISC. LINK	1825 x 90 x 90

The standard connections are M10. Other sizes are available upon request.  
 Also available in Tin Plating on request.



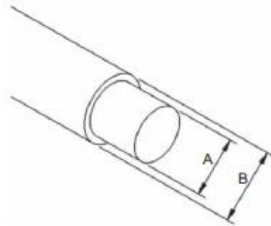
**Material :** 50x6 mm hard drawn copper bar  
**Base :** Steel Powder Coated (Colour - Black)  
**Fasteners :** Stainless Steel 316L (other grade on request)



## SOLID CIRCULAR COPPER : PVC COVERED

offers a wide range of UV-stabilised PVC covered circular conductor in a range of different colours. These colours have been chosen to match the most common structural materials and will reduce the visual impact of a lightning protection conductor.

'B' is the conductor diameter including the PVC sheathing - 10mm.

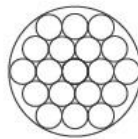


PRODUCT CODE	COLOUR	DIAMETER (A (mm))	COIL SIZE (m)	WEIGHT (Kg/m)
NBLOC	BLACK	8.0	50	0.49
NBRCC	BROWN	8.0	50	0.49
NGCC	GREY	8.0	50	0.49
NSCC	STONE	8.0	50	0.49
NWCC	WHITE	8.0	50	0.49

**Material: Copper conductor to BS EN 13601**

All PVC circular sold in the specified coil lengths only.

## COPPER CABLE : BARE STRANDED

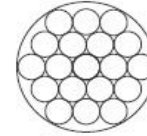


**Material:**  
Soft drawn stranded copper cable to BS EN 60228.

\*\*Stranding may vary.

PRODUCT CODE	C.S.A. (mm <sup>2</sup> )	STRANDING No. / DIA (mm)**	NOMINAL DIAMETER (mm)	WEIGHT (Kg/m)
NCS006	6.0	7 / 1.04	3.12	0.05
NCS016	16	7/1.70	5.10	0.15
NCS025	25	7 / 2.14	6.42	0.23
NCS035	35	7 / 2.52	7.56	0.32
NCS050	50	19 / 1.78	8.90	0.43
NCS070	70	19 / 2.14	10.70	0.62
NCS095	95	19 / 2.52	12.60	0.86
NCS120	120	37 / 2.03	14.21	1.09
NCS150	150	37 / 2.25	15.75	1.33
NCS185	185	37 / 2.52	17.64	1.67
NCS240	240	61 / 2.25	20.25	2.20
NCS300	300	61 / 2.52	22.68	2.76
NCS400	400	61 / 2.85	25.65	3.53

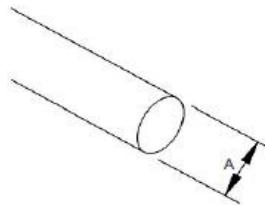


**COPPER CABLE : GREEN / YELLOW PVC COVERED**

 Illustration  
 Purpose Only

PRODUCT CODE	C.S.A. (mm <sup>2</sup> )	STRANDING No. / DIA (mm)**	WEIGHT (Kg/m)
NCGY016	16	7/1.70	0.15
NCGY025	25	7 / 2.14	0.23
NCGY035	35	7 / 2.52	0.32
NCGY050	50	19 / 1.78	0.43
NCGY070	70	19 / 2.14	0.62
NCGY095	95	19 / 2.52	0.86
NCGY120	120	37 / 2.03	1.09
NCGY150	150	37 / 2.25	1.33
NCGY185	185	37 / 2.52	1.67
NCGY240	240	61 / 2.25	2.20
NCGY300	300	61 / 2.52	2.76
NCGY400	400	61 / 2.85	3.53

**Material:**  
 Soft drawn stranded copper cable to BS EN 60228.

\*\*Stranding may vary.

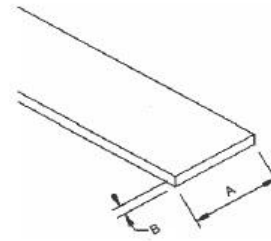
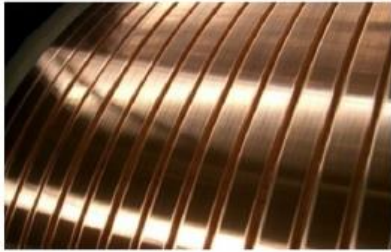
**SOLID CIRCULAR COPPER : BARE**


PRODUCT CODE	COND. SIZE (BxA)(mm)	WEIGHT (Kg/m)	COIL SIZE (m)
NC08	8.0	0.44	50

**Material:** Copper conductor to BS EN 13601

## COPPER TAPE : BARE

copper tape is embossed 'Nexus' for identification purposes and is manufactured from high conductivity annealed copper.



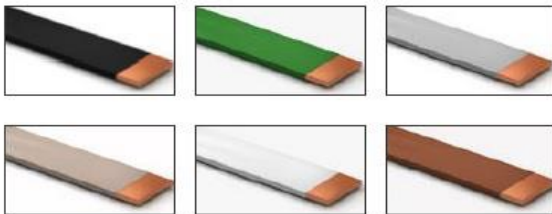
PRODUCT CODE	COND. SIZE (AxB)(mm)	C.S.A. (mm <sup>2</sup> )	WEIGHT (Kg/m)	COIL SIZE (m)
NCT1215	12.5x1.5	18.75	0.17	100
NCT1230	12.5x3	37.50	0.33	100
NCT2015	20 x 1.5	30.00	0.27	100
NCT2030	20x3	60.00	0.53	100
NCT2515	25 x 1.5	37.50	0.33	100
NCT2530	25x3	75.00	0.67	25 or 50
NCT2540	25x4	100	0.89	50
NCT2560	25x6	150	1.34	40
NCT3020	30x2	60.00	0.53	50
NCT3030	30x3	90.00	0.80	50
NCT3040	30x4	120	1.07	40
NCT3050	30x5	150	1.33	40
NCT3130	31 x 3	93.00	0.83	50
NCT3160	31 x 6	186	1.65	30
NCT3830	38x3	114	1.01	50
NCT3850	38x5	190	1.69	30
NCT3860	38x6	228	2.03	25
NCT4030	40x3	120	1.06	40
NCT4040	40x4	160	1.42	30
NCT4050	40x5	200	1.78	25
NCT4060	40x6	240	2.13	25
NCT5030	50x3	150	1.33	40
NCT5040	50x4	200	1.78	30
NCT5050	50x5	250	2.22	20
NCT5060	50x6	300	2.68	20

**Material: Copper to BS EN 13601**  
**Available in Tinned Copper & Bare Copper**

All copper tape sold in the specified coil lengths and other coil length available on request.

## COPPER TAPE : PVC COVERED

offers a wide range of PVC covered tapes in a range of different colours. These colours have been chosen to match the most common structural materials and will reduce the visual impact of a lightning protection conductor.

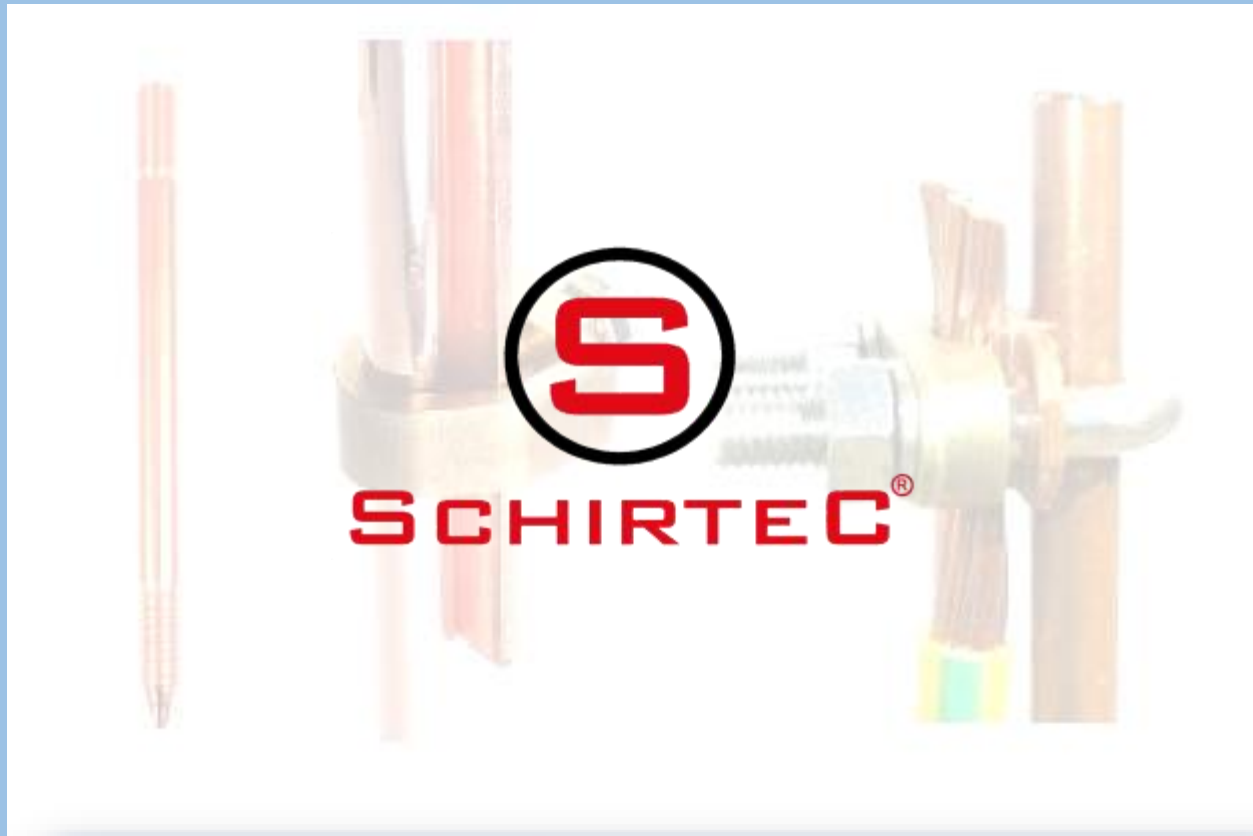


PRODUCT CODE	COND. SIZE (Y x X) (mm)	COLOUR	WEIGHT (Kg / m)	COIL SIZE (m)
NBL253	25 x 3	BLACK	0.78	25
NBR253	25 x 3	BROWN	0.78	25
NGR253	25 x 3	GREEN	0.78	25
NGY253	25 x 3	GREY	0.78	25
NS253	25 x 3	STONE	0.78	25
NW253	25 x 3	WHITE	0.78	25
NGR256	25 x 6	GREEN	1.53	20
NGR506	50 x 6	GREEN	2.96	20

### Material: Copper to BS EN 13601

All PVC covered copper tape sold in the specified coil lengths & any other length on request.

COLOUR	COLOUR
BLACK	
GREEN	
GREY	
STONE	
WHITE	
BROWN	



*Created For Your Safety*



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