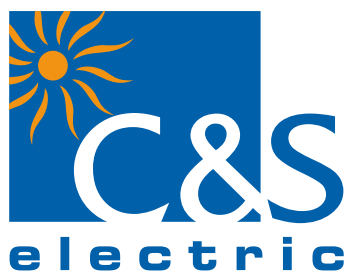


# GLOBAL SPECIALIST FOR POWER BUSBARS



NON-SEGREGATED PHASE BUSDUCT



We touch your electricity everyday!

C&S offers a wide range of Non – Segregated Phase Busducts for Low Voltage Application from 415 V to 1000V upto 6500A .

**Application:**

Non Segregated Busducts (NSPB) finds application for power distribution in power plants, Industries & Utilities between -

1. Transformer to Switchgear Panels.
2. Switchgear Panel to Panel
3. Diesel Generator Sets to Synchronizing / Switchgear Panel

Above Applications will find Power transfer solutions in following segments

- Process plants, manufacturing industries & Industrial Buildings
- Commercial, residential real estate & Hospitals
- Infrastructure establishment - Airports, Metros, Railways, Tunnels, Ports
- IT Parks

**Salient Features:**

1. Reduced Proximity effect
2. Low voltage drop by virtue of interleaved design – an important criteria for design of low voltage busduct.
3. Conformity to Indian & International standards

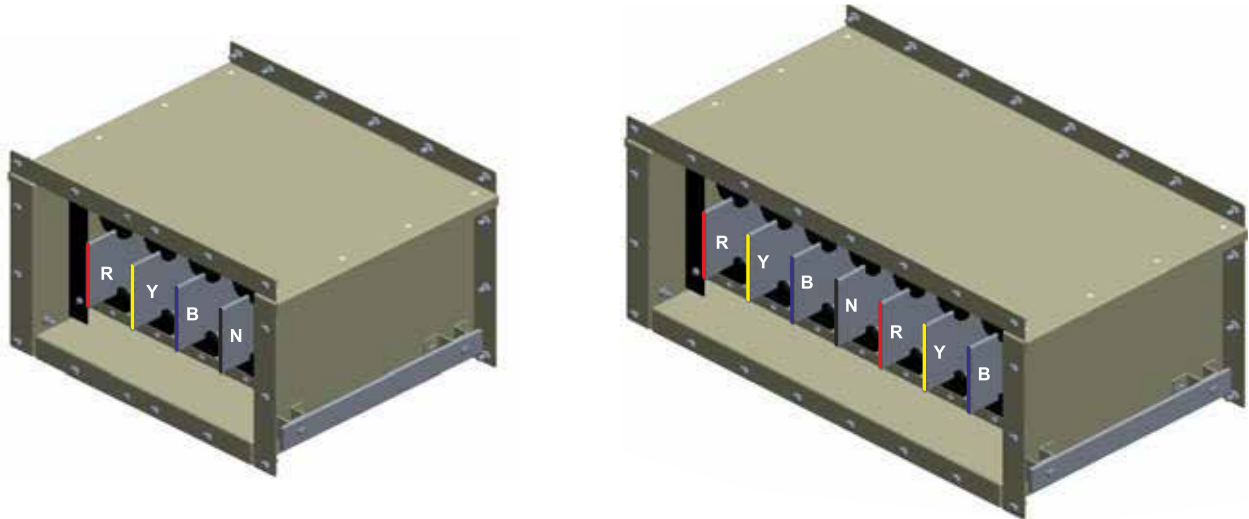
**Product Highlight:**

Non Segregated Phase Busduct (LV)	
Compliance of standard	IEC 61439 / IS 8623
Rated Continuous Current	1250A - 5000A
Conductor	Aluminium *
Busbar Configurations	• 3 Phase + 100% Neutral / 50% Integral Ground Earth
	• 3 Phase + 100% Neutral+100% Internal Earth+50% Integral Earth
	• Interleaved Design (RYBN-RYBN or RYB-N-RYB )
Rated Operational Voltage (Ue)	1000V (AC)
Rated Short Time Withstand Current (Icw)	up to 100kA (for 1 Sec.)
Enclosure Material	Aluminium Alloy
Rated Impulse Withstand Voltage (Uimp)	12kV (1.2/50 μs)
Degree of Protection	IP55 / IP65

Copper Conductor available on request



## Non Segregated Phase Busduct



### Construction :-

In Non -Segregated phase Busduct (NSPB) construction the conductors of all phase from each other are housed in a common non -magnetic metallic enclosure without metal barriers between adjacent phases. The busduct is natural air cooled type.

### Conductor

The conductors are normally made of aluminium alloy designed as bar, single channels assembled in a hollow square as per current rating. Conductor can be also be insulated on request.

In some cases conductor can be Copper also.

### Enclosure

The enclosure is made of aluminum alloy sheets revited to form a rectangular form of standard lengths. The successive standard lengths of enclosures are bolted at site.

Enclosures are painted / Powder coated with uniform thickness makes it suitable for harsh environments

Enclosure acts as Integral earth and separate external earth can also be provided on request.

The straight lengths (max. lengths of 4.5 meters) are supplied with all necessary elements like Bends, tees, rubber bellows flexibles, and adaptor boxes etc. as required to complete the route. Inspection covers are provided to allow access for assembly or removal of current transformers, expansion joints, space heaters, thermostat, flexible joints and other such equipment.

### Supporting Insulators

Busbar supporting insulators are usually of high strength SMC . Conductor supports are spaced at such intervals to ensure adequate mechanical strength to withstand forces due to fault conditions as specified.

Ratings	1250A	1600A	2000A	2500A	3200A	4000A	5000A
Al Conductors Codes	LVDBNA05012	LVDBNA05016	LVDBNA05020	LVDBNA06525	LVDBNA06532	LVDBNA06540	
Dimensions (W X H)	500x350	500x400	500x450	800x350	800x450	800x500	500x350
Copper Conductors Codes	LVDBNC05012	LVDBNC05016	LVDBNC08020	LVDBNC08025	LVDBNC010032	LVDBNC010040	LVDBNC010050
Dimensions	500X300	500X350	500X350	500X400	800X350	800X350	800X400

Higher Rating designs are available on request.



● C&S Etacom Installations

\*This map is only for pictorial representation not to be scaled



## GLOBAL SPECIALIST FOR POWER BUSBARS



### Corporate Office:

#### C&S Electric Limited

222, Okhla Industrial Estate, Phase-III  
New Delhi-110 020, India  
Tel.: +91 11 3384 9000-09  
Fax: +91 11 2684 7342

### Domestic

#### Regional Office:

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##### Western Region

A-301/302, 3rd Floor, Nav Bharat Estate  
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email: powerbusbars@cselectric.co.in

#### Works:

##### Plant -I

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Integrated Industrial Estate  
(SIDCUL), Ranipur, Haridwar  
Uttarakhand - 249403, India

##### Plant -II

Plot No. 1C, Sector 8C,  
Integrated Industrial Estate  
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### Overseas

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Fax: +44-1-403254131  
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Fax: +971 65579786  
email: info@etacom.be

#### Works:

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www.cselectric.co.in  
www.etacomcs.com



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