We touch your electricity everyday!



Air Insulated Busbar System

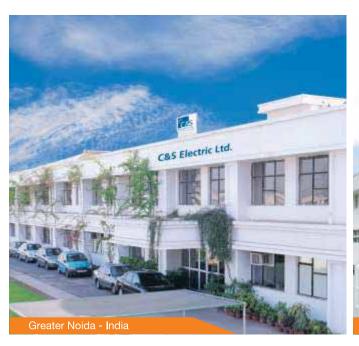




metabar



Manufacturing Facilities







C&S Electric Ltd. a six decade established and one of the leading suppliers of electrical equipment in India. It's wide range of electrical and electronic products find application in power generation, distribution, control, protection and final consumption.

C&S employs over 4000 people including 400 engineers, and has 17 state-of-the-art manufacturing plants. It has 22 sales/marketing offices across India and its products are exported to more than 88 countries. C&S Electric also has joint venture with global leaders.

The Power Busbar Division of C&S founded four decade ago and has been meeting the evolving needs of power generating stations, process and manufacturing industries, infrastructure establishments, technological centers and real estate developments with its complete and fully tested product line of Busduct, Bustrunking and associated equipment.

The Eta-com group was founded in 1979 and ever since markets a full range of cast resin insulated busway systems. The concept which was already in use in the sixties in industrial installations is now in the third generation form. Due to the typical characteristics, the system guarantees the integrity of many projects world-wide, providing safe and maintenance free electrical power supplies in both Low Voltage and Medium Voltage installations.

With the acquisition of Eta-com in December 2011, the co-operation between the two companies gives birth to a Global Power Busbars Specialist.







 $\textbf{metabor} \ \ \textbf{range} \ \textbf{cover} \ \textbf{Sandwich} \ \textbf{Bustrunking}, \textbf{Air} \ \textbf{Insulated} \ \textbf{Bustrunking} \ \textbf{\&} \ \textbf{Lighting} \ \textbf{Trunking}.$

Energy Saver: Bustrunking has lower impedance in comparison to cable and conventional busducts for the same application. Lower impedance means less energy lost during distribution and this translates into cost savings.

Flexible Distribution: Plug-in type arrangement at regular intervals or as per customer design provides efficient power distribution.

Less Space: Bustrunking system require less space for Installation in a building / industry as compared to conventional busduct and cable system, so optimum utilization of space.

Conserves Raw-materials & Produces less waste: Material and manpower used in busway is lower than cable & conventional busduct. It saves money on raw materials and create less waste by buying pre-engineered lengths of busway.

 $\textbf{Reusable:} \ \textbf{Bustrunking system comes with provision of expansions, changes, replacement and reusing.}$

EB - Sandwich Type	
Compliance of Standard	IEC 61439 (1&6)
Independent Certificate Authority	UL, ASTA, CPRI-India
Conductor Material & Ratings	Copper 800A ~ 5000A
Rate Operational Voltage (Ue)	1000 Volt, AC
Rated Impulse Withstand Voltate (Uimp)	12 KV (1,2/50 s)
Enclosure Material	Aluminium
BusbarInsulation	Multi layer Class - 'F' Insulation
Degree of Protection	IP 54/IP55/IP65/IP67
Fire Rating	240Min. (ISO 834) 55
Seismic Compliance	Zone-5
Section Jointing	Uniblock Joint
Plug - in Box	32~630A



CB-Compact Air Insulated Type	e
Compliance of Standard	IEC 61439 (1&6)
Independent Certification Authority	ASTA-UK, CPRI-India
Conductor Material & Ratings	Copper 125~2000A, Aluminium 200~1250A
Rated Operational Voltage (Ue)	1000 Volt, AC
Rated Impulse Withstand Voltage (Uimp)	12 KV (1.2/50 s)
Enclosure Material	G.I
Busbar Insulator	Class-F
Degree of Protection	IP 54/55
Fire Rating	120 Min. (ISO 834)
Seismic Compliance	Zone-5
Section Jointing	Uniblock Joint
Plug in Box	32 ~ 400A





botobora is the leading technology in the world for cast resin insulated busbars in low & medium voltage installations.

This concept is unique as it is based on the direct encapsulation of copper or aluminium conductors with an insulation compound, B.I.M. casting mix, consisting of epoxy-resin mixed under vacuum. This B.I.M. casting mix has excellent electrical characteristics and high mechanical withstand with specific physical properties. It is moisture-resistant, fire-resistant and self extinguishing. A flexible fabrication method, universal moulds and an integrated process controlled mixing technique allow the production of an almost unlimited number of element forms for L.V as for M.V applications. The prefabricated elements are self-supporting and are interconnected electrically by joining the conductors with 2-sided compression contacts, ensuring an excess of contact surfaces and a maximum of adjustment. Junctions and element extremities are overcast with a B.I.M. casting mix resulting in a homogeneous insulation over the full length of the connection.

betobars can be supplied in the following standard types:

For Low Voltage

LA-LB series
Up to 1000 V AC / 1500 V DC
Three phase conductors and/or
Protective earth / 50,100,150,200% neutral

Al-conductors range up to 5200 A Cu-conductors range up to 6600 A

DC application on request Other frequencies on request







Type Current Rating Voltage Rating SH - Series Al upto 1500 A 3.6 KV to 7.2 KV

Cu upto 1850 A

PH - Series Al upto 5000 A 3.6 KV to 17.5 KV

Cu upto 6100 A

Other current and voltage ratings on request.





rotection explosion proof on request





isobar

Isobor range covers Isolated Phase Busduct, Segregated Phase Busducts and Non-Segregated Phase Busducts.

C&S is a market leader in India and amongst the major global companies for design, manufacture, erection and commissioning of Isolated Phase Bus Ducts up to 1000MW power plants.

Today, we have an enviable track record of having associated with 14 Units of 660 MW, 25 Units of 500 MW, 35 Units of 250 MW, 30 Units of 150 MW Thermal Power Stations, Hydro Power Plants and Nuclear Power Plants, besides many Captive/Private Power Projects of capacity less than 100 MW. The largest proportion of power generated in India flows through C&S isobor busducts.

Isobor Busduct have been successfully type tested for highest peak current during short circuit test and also for temperature rise test at world famous laboratories like KEMA-Holland and EDF-France, CPRI-Bhopal & Bangalore and at IIT-Roorkee (For Seismic tests).

Isolated Phase Busduct

C&S offers a wide range of natural air cooled Isolated Phase Busducts with voltage rating of 11kV to 38 kV having current rating of 100 A to 30,000 A, with the short circuit current withstand capacity of 312 kA/sec. & 844 kA peak. These Busducts have applications in all generating stations from 50 MW & above.



C&S offers a wide range of Segregated Phase Busducts for Medium Voltage applications from 3.3 kV to 33 kV upto 5000 A with a maximum Short Circuit Current withstand capability of 50 kA rms for 3 sec. and 128 kA peak. Segregated Phase Busducts find applications in power generating stations and industrial or distribution plants for lower capacity generator connections, inter-connections between switchgear and transformers.

Non-Segregated Phase Busducts

C&S offers a wide range of Non-Segregated Phase Busducts for Low Voltage applications from 415 V to 1.1 kV up to 6500 A with a maximum Short Circuit Current withstand capability of 80 kA RMS for 1 sec. and 180 kA peak. Non-Segregated Phase Busducts are commonly used in industrial utilities, power plants for interconnection between switchgear and transformers and also for lower capacity of generator (viz DG sets)

Other Products

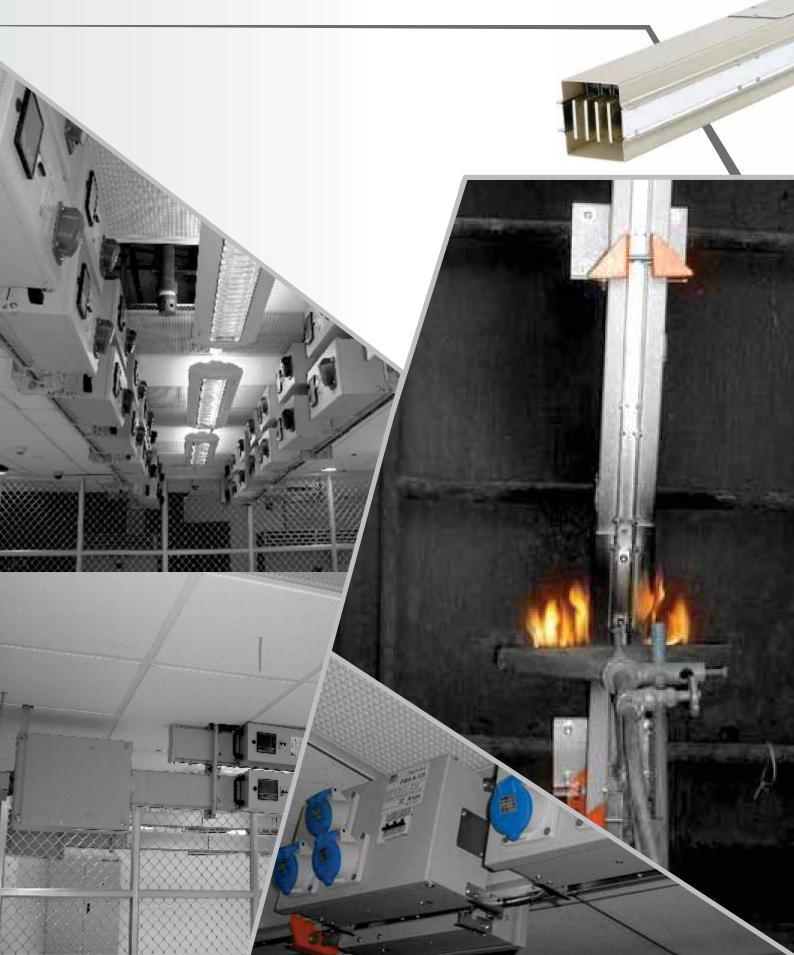
- Non-Segregated Phase Busducts (415 to 1100V upto 6500A)
- DC Busbar Systems
- PTSP Cubicles
- Generator Auxiliary Compartments (GAC)
- Neutral Grounding Cubicles
- Line & Neutral Side Terminal Boxes
- Pressurization System for IPB's
- Hot Air Blowing Equipment







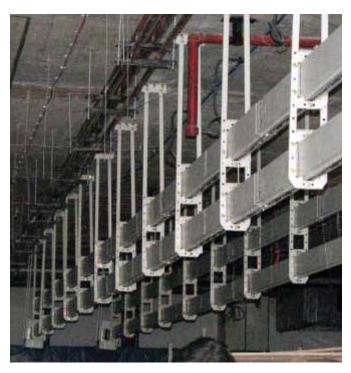
Compact Air Insulated







Applications











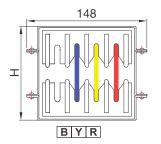
Technical Specifications

Air Insulated Busway

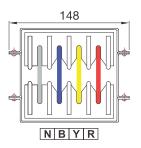
Compliance of Standard	IEC 61439 (1&6) & IS 8623 (1&2)
Independent Certification Authority	CPRI-India
Busbar Arrangement	Air Insulated type
Busbar Ratings	Copper 125 ~ 2000A Aluminium 200 ~ 1250A
	3 Phase+50% Integral Earth 3 Phase+100% Neutral+50% Integral Earth 3 Phase+200% Neutral+50% Integral Earth 3 Phase+100%Neutral+100% Isolated Earth+50%Integral Earth
Rated Operational Voltage (Ue)	1000 Volt, AC
Rated Insulation Voltage (Ui)	1000 Volt, AC
Rated Dielectric Voltage	2.5 KV r.m.s
Rated Impulse Withstand Voltage (Uimp)	12 kV (1.2/50 μs)
Rated Frequency	50 Hz / 60 Hz
Enclosure Material	1.6 mm G.I
Surface Coating on Enclosure	Powder coated (RAL-7032)
Busbar Material (Phase/Neutral)	Copper (full round edge), 99.9% pure ETP grade Aluminium (full round edge), High strength & High conductivity
Busbar Material (Integral Earth)	1.5mm G.I / 1.5mm Copper (optional)
Busbar Material (External Earth)	Copper / Aluminium (optional)
Busbar Insulator	Glass Filled Polyester (Class -F)
Degree of Protection	IP 54
Fire Rating	120 Min.
Seismic compliance (IS:1893/IEEE693)	Zone-5
Plug -in-Box	32~400A



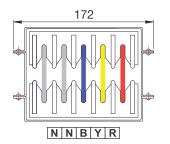
CBC (Copper Air Insulated Bus Trunking)



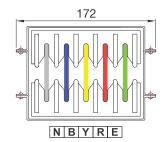
3 Phase+50% Integral Earth



3 Phase+100% Neutral +50% Integral Earth



3 Phase+200% Neutral +50% Integral Earth



3 Phase+100% Neutral +100% Isolated Earth+50% Integral Earth

intogral Earth	ree /e integr	ai Laitii	0070 Ioolatoa Larti	110070 Intogral Lare	
Rated Current (In)	Amps	125	315	400	
Product Code		CBC 125	CBC 315	CBC 400	
Busbar size per phase (No. of busbars)	mm	Dia 6.0	6x20(1)	6x30(1)	
Overall Height (H)	mm	60	85	85	
Rated Three Phase RMS Short Time Current for 1 Second (lcw)	kA	5	20	30	
Rated Three phase Peak short time current (Ipk)	kA	7.5	40	63	
Rated Single Phase RMS Short Time Current for 1 Second (lcw)	kA	3	12	18	
Rated Single phase Peak short time current (Ipk)	kA	4.5	24	36	
Approximate Weight of Bustrunking					
3 Phase + 50% Internal Earth	Kg/m	6.8	11.2	12.9	
3 Phase + 100% Neutral + 50% Internal Earth	Kg/m	7.1	12.4	14.7	
3 Phase + 200% Neutral + 50% Internal Earth	Kg/m	8.0	14.2	17.1	
3 Phase+100% Neutral+100% Isolated Earth+50% Internal Earth	Kg/m	8.0	14.2	17.1	
Electrical Characteristics for 50 Hz					
AC Resistance at 20°C (R ₂₀)	miliohms/mtr.	0.6346	0.1481	0.0987	
A.C. Resistance at thermal conditions (R,)	miliohms/mtr.	0.8092	0.1888	0.1259	
Reactance (X)	miliohms/mtr.	0.1786	0.1250	0.1056	
Impedance at thermal conditions (Z)	miliohms/mtr.	0.8287	0.2264	0.1643	
	mV/mtr./A at0.7 P.F.	1.2020	0.3835	0.2832	
Composite Voltage drop at	mV/mtr./A at0.8 P.F.	1.3069	0.3915	0.2841	
Full Load concentrated at the end of bustrunking run (V)	mV/mtr./A at0.9 P.F.	1.3964	0.3887	0.2759	
	mV/mtr./A at1.0 P.F.	1.4016	0.3270	0.2180	
Electrical Characteristics for 60 Hz					
AC Resistance at 20°C (R20)	miliohms/mtr.	0.6348	0.1483	0.0989	
A.C. Resistance at thermal conditions (Rt)	miliohms/mtr.	0.8219	0.1920	0.1281	
Reactance (X)	miliohms/mtr.	0.2143	0.1500	0.1267	
Impedance at thermal conditions (Z)	miliohms/mtr.	0.8494	0.2436	0.1801	
	mV/mtr./A at0.7 P.F.	1.2616	0.4183	0.3119	
Composite Voltage drop at full Load	mV/mtr./A at0.8 P.F.	1.3616	0.4219	0.3091	
concentrated at the end of bustrunking run (V)	mV/mtr./A at0.9 P.F.	1.4432	0.4125	0.2953	
	mV/mtr./A at1.0 P.F.	1.4236	0.3325	0.2218	



Voltage Drop Calculation Formulae

 $\Delta V = k x \sqrt{3} x (R_t \cos \emptyset + X \sin \emptyset) x I_B x L$

Where

 $\Delta V \hspace{0.5cm} \text{is the composite voltage drop of the system (V);} \hspace{0.5cm}$

 $R_t \ \& \ X$ are the mean resistance and reactance value of the system (m $\Omega/mtr)$

IB is the actual load current of the circuit being considered (A);

is the length of the system being considered (M);

 $\cos \varnothing$ is the load power factor being considered;

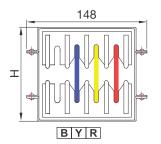
k is the load distribution factor:

 $k\!=\!1,$ if full load is concentrated at the end of the busbar trunking run; $k\!=\!(n\!+\!1)/2n,$ if the load is uniformly spread between n branches.

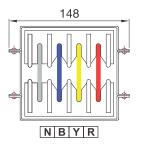
500	630	800	1000	1250	1750	2000
CBC 500	CBC 630	CBC 800	CBC 1000	CBC 1250	CBC 1750	CBC 2000
6x40(1)	6x50(1)	6x70(1)	6x90(1)	6x50(2)	6x70(2)	6x90(2)
85	95	115	135	190	230	270
35	50	50	50	50	65	65
73.5	105	105	105	105	143	143
21	30	30	30	30	39	39
44.1	63	63	63	63	81.9	81.9
14.7	16.8	20.9	25.0	29.6	37.8	46.0
17.1	19.7	25.0	30.3	35.4	46.0	56.6
20.1	23.3	29.8	36.2	42.0	54.9	67.8
20.1	23.3	29.8	36.2	42.0	54.9	67.8
0.0740	0.0592	0.0429	0.0339	0.0296	0.0215	0.0169
0.0944	0.0755	0.0548	0.0432	0.0378	0.0274	0.0216
0.0792	0.0667	0.0524	0.0444	0.0342	0.0268	0.0227
0.1232	0.1007	0.0758	0.0620	0.0509	0.0383	0.0313
0.2124	0.1740	0.1312	0.1074	0.0880	0.0663	0.0543
0.2131	0.1739	0.1303	0.1061	0.0878	0.0658	0.0535
0.2070	0.1681	0.1249	0.1009	0.0847	0.0629	0.0508
0.1635	0.1308	0.0948	0.0749	0.0654	0.0474	0.0374
0.0742	0.0594	0.0431	0.0341	0.0298	0.0217	0.0171
0.0961	0.0769	0.0558	0.0441	0.0386	0.0280	0.0222
0.0950	0.0800	0.0629	0.0533	0.0410	0.0321	0.0272
0.1351	0.1110	0.0841	0.0692	0.0563	0.0427	0.0351
0.2340	0.1922	0.1454	0.1195	0.0975	0.0737	0.0606
0.2319	0.1897	0.1427	0.1166	0.0961	0.0722	0.0590
0.2215	0.1803	0.1345	0.1091	0.0911	0.0680	0.0551
0.1664	0.1332	0.0967	0.0764	0.0668	0.0486	0.0384



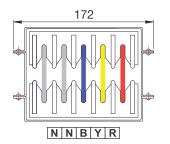
CBA (Aluminium Air Insulated Bus Trunking)



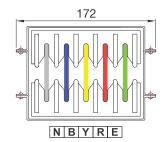
3 Phase+50% Integral Earth



3 Phase+100% Neutral +50% Integral Earth



3 Phase+200% Neutral +50% Integral Earth



3 Phase+100% Neutral +100% Isolated Earth+50% Integral Earth

integral Earth +30 % integral Earth	+50 % integra	u Laiui + 10	00 /0 ISOIALEU EALLI	+50 % integral Earti	1
Rated Current (In)	Amps	200	250	315	
Product Code		CBA 200	CBA 250	CBA 315	
Busbar size per phase (No. of busbars)	mm	6x20(1)	6x30(1)	6x40(1)	
Overall Height (H)	mm	85	85	85	
Rated Three Phase RMS Short Time Current for 1 Second (lcw)	kA	10	15	25	
Rated Three phase Peak short time current (Ipk)	kA	17	30	52.5	
Rated Single Phase RMS Short Time Current for 1 Second (lcw)	kA	6	9	15	
Rated Single phase Peak short time current (Ipk)	kA	10.2	15.3	30	
Approximate Weight of Bustrunking					
3 Phase + 50% Internal Earth	Kg/m	8.7	9.3	9.8	
3 Phase + 100% Neutral + 50% Internal Earth	Kg/m	9.1	9.8	10.5	
3 Phase + 200% Neutral + 50% Internal Earth	Kg/m	10.1	11.0	11.9	
3 Phase+100% Neutral+100% Isolated Earth+50% Internal Earth	Kg/m	10.1	11.0	11.9	
Electrical Characteristics for 50 Hz					
AC Resistance at 20°C (R ₂₀)	Miliohms/mtr.	0.2611	0.1741	0.1305	
A.C. Resistance at thermal conditions (R _t)	Miliohms/mtr.	0.3335	0.2223	0.1667	
Reactance (X)	Miliohms/mtr.	0.1250	0.1056	0.0792	
Impedance at thermal conditions (Z)	Miliohms/mtr.	0.3561	0.2461	0.1846	
	MV/mtr./A at0.7 P.F.	0.5589	0.4001	0.3001	
Composite Voltage drop at	MV/mtr./A at0.8 P.F.	0.5920	0.4177	0.3133	
Full Load concentrated at the end of bustrunking run (V)	MV/mtr./A at0.9 P.F.	0.6142	0.4263	0.3197	
	MV/mtr./A at1.0 P.F.	0.5775	0.3850	0.2888	
Electrical Characteristics for 60 Hz					
AC Resistance at 20°C (R20)	Miliohms/mtr.	0.2614	0.1744	0.1309	
A.C. Resistance at thermal conditions (Rt)	Miliohms/mtr.	0.3390	0.2262	0.1697	
Reactance (X)	Miliohms/mtr.	0.1500	0.1267	0.0950	
mpedance at thermal conditions (Z)	Miliohms/mtr.	0.3707	0.2592	0.1945	
	MV/mtr./A at0.7 P.F.	0.5966	0.4309	0.3233	
Composite Voltage drop at full Load	MV/mtr./A at0.8 P.F.	0.6257	0.4450	0.3339	
concentrated at the end of bustrunking run (V)	MV/mtr./A at0.9 P.F.	0.6418	0.4482	0.3363	
	WWW.	0.0 0			



Voltage Drop Calculation Formulae

 $\Delta V = k x \sqrt{3} x (R_t \cos \emptyset + X \sin \emptyset) x I_B x L$

Where

 $\Delta V \hspace{0.5cm} \text{is the composite voltage drop of the system (V);} \\$

 $R_t \ \& \ X$ are the mean resistance and reactance value of the system (m $\Omega/mtr)$

IB is the actual load current of the circuit being considered (A);

L is the length of the system being considered (M);

 ${\sf Cos}\ \varnothing \quad {\sf is}\ {\sf the}\ {\sf load}\ {\sf power}\ {\sf factor}\ {\sf being}\ {\sf considered};$

k is the load distribution factor:

 $k\!=\!1,$ if full load is concentrated at the end of the busbar trunking run; $k\!=\!(n\!+\!1)/2n,$ if the load is uniformly spread between n branches.

400	500	630	800	1000	1250
CBA 400	CBA 500	CBA 630	CBA 800	CBA 1000	CBA 1250
6x50(1)	6x70(1)	6x90(1)	6x50(2)	6×70(2)	6x90(2)
95	115	135	190	230	270
30	35	50	50	50	50
63	73.5	105	105	105	105
18	21	30	30	30	30
36	44.1	63	63	63	63
10.6	12.3	13.9	17.3	20.6	23.9
11.5	13.5	15.5	19.1	23.1	27.1
13.1	15.4	17.8	21.5	26.2	31.0
13.1	15.4	17.8	21.5	26.2	31.0
0.1044	0.0757	0.0598	0.0522	0.0379	0.0299
0.1334	0.0967	0.0763	0.0667	0.0484	0.0382
0.0667	0.0524	0.0444	0.0342	0.0268	0.0227
0.1491	0.1100	0.0883	0.0749	0.0553	0.0444
0.2442	0.1820	0.1475	0.1231	0.0918	0.0743
0.2541	0.1884	0.1519	0.1279	0.0948	0.0765
0.2583	0.1903	0.1525	0.1298	0.0956	0.0766
0.2310	0.1675	0.1322	0.1155	0.0837	0.0661
0.1047	0.0760	0.0601	0.0525	0.0382	0.0302
0.1359	0.0986	0.0779	0.0681	0.0495	0.0392
0.0800	0.0629	0.0533	0.0410	0.0321	0.0272
0.1577	0.1169	0.0944	0.0795	0.0590	0.0477
0.2637	0.1973	0.1604	0.1333	0.0998	0.0812
0.2714	0.2020	0.1634	0.1370	0.1020	0.0826
0.2722	0.2012	0.1618	0.1372	0.1015	0.0816
0.2353	0.1708	0.1350	0.1180	0.0858	0.0678

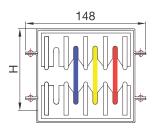




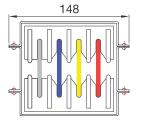
Straight Length Feeder

- Transformer to Panel.
- Panel to Panel.
- Panel to Rising mains.

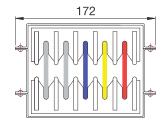
Standard Length: 3000mm Maximum Length: 3000mm Minimum Length: 500mm



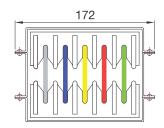
3 Phase+50% Integral Earth



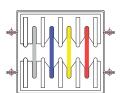
3 Phase+100% Neutral +50% Integral Earth



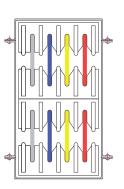
3 Phase+200% Neutral +50% Integral Earth



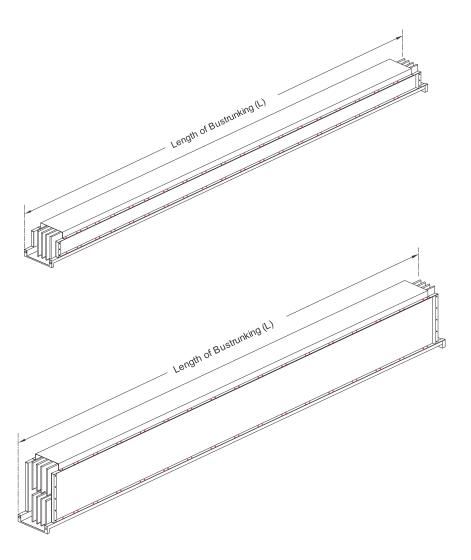
3 Phase+100% Neutral +100% Isolated Earth+50% Integral Earth



Copper 125~1000A Aluminium 200~630A



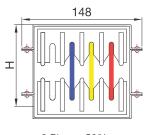
Copper 1250~2000A Aluminium 800~1250A



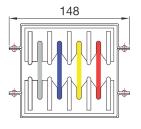
Straight Length with PIP

- For tapping Power from Main Line through Plug-in-Boxes.
 Horizontal Distribution / Vertical Distribution (Rising mains)
- Plug-in Points (PIP) are available at every 250 mm on alternate side (at every 500mm on either side)

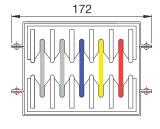
Standard Length: 3000mm Maximum Length: 3000mm Minimum Length: 750mm



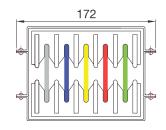
3 Phase+50% Integral Earth



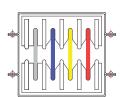
3 Phase+100% Neutral +50% Integral Earth



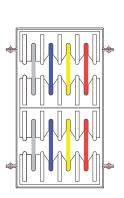
3 Phase+200% Neutral +50% Integral Earth



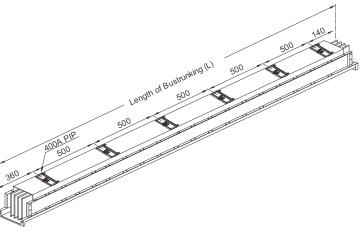
3 Phase+100% Neutral +100% Isolated Earth+50% Integral Earth

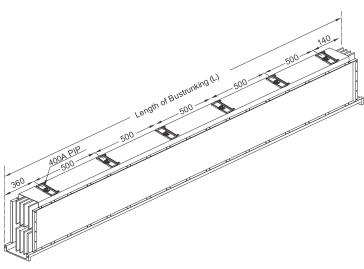


Copper 125~1000A Aluminium 200~630A



Copper 1250~2000A Aluminium 800~1250A

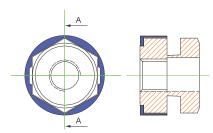






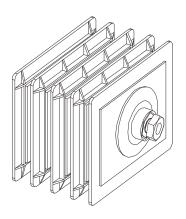


- Joint can be fitted / removed in installed condition without removal of section.
- Heavy duty disc spring used on both sides for uniform distribution of pressure.
- Joint can be tightened easily with help of spanner on nut side only.
 (spanner not required on bolt head side*)
- Shear off nut * ensure tightness of joint at desired torque and eliminates the need of torque wrench during installation.
- Tamper proof cap over shear off nut prevents opening of nut after achieving desired torque. Nut can only be opened after breaking the cap.
 - * Not applicable for CBC125 which has individual busbar connections.



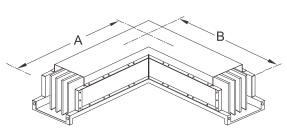
Shear off nut

Uniblock Joint

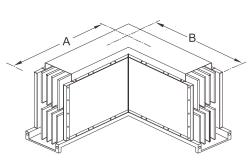


Edge Elbow

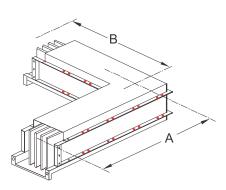
Current Rating	Standard Dimn. A x B (mm)	Minimum Dimn. A x B (mm)	Maximum Dimn. A x B (mm)
Copper - 125~2000A	500 x 500	300 x 300	750 x 750
Aluminium - 200~1250A	500 x 500	300 x 300	750 x 750



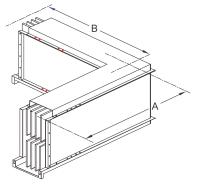
Type-1



Type-1



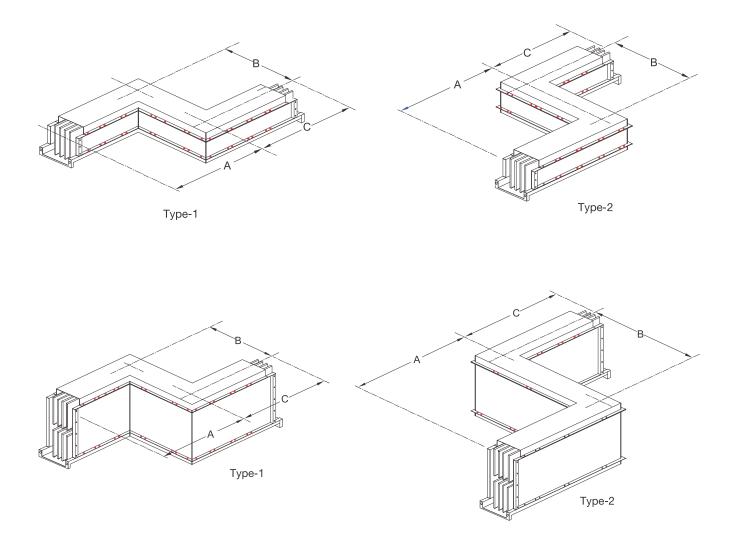
Type-2



Type-2

Offset Edge Elbow

Current Rating	Standard Dimn. AxBXC (mm)	Minimum Dimn. AxBxC (mm)	Maximum Dimn. AxBxC (mm)
Copper - 125~2000A	500 x 500 x 500	300 x 300 x 300	450 x 600 x 450
Aluminium - 200~1250A	500 x 500 x 500	300 x 300 x 300	450 x 600 x 450

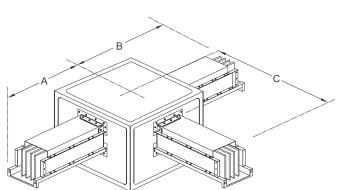


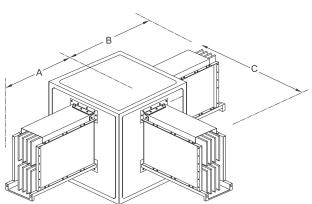




Edge Tee

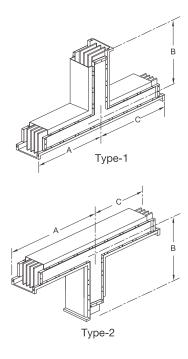
Current Rating	Standard Dimn. AxBXC (mm)	Minimum Dimn. AxBxC (mm)	Maximum Dimn. AxBxC (mm)
Copper - 125~2000A	500 x 500 x 500	500 x 500 x 500	750 x 750 x 750
Aluminium - 200~1250A	500 x 500 x 500	500 x 500 x 500	750 x 750 x 750

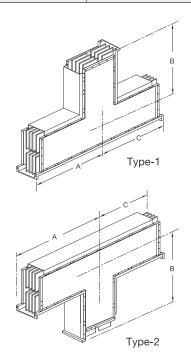




Current Rating Standard Dimn. AxBxC (mm) Minimum Dimn. AxBxC (mm) Maximum Dimn. AxBxC (mm) Copper - 125~2000A 500 x 500 x 500 500 x 500 x 500 500 x 500 x 500 Aluminium - 200~1250A 500 x 500 x 500 500 x 500 x 500 500 x 500 x 500

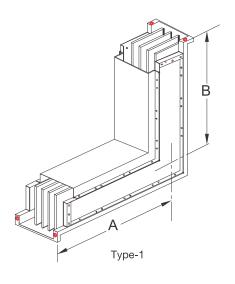
Flat Tee

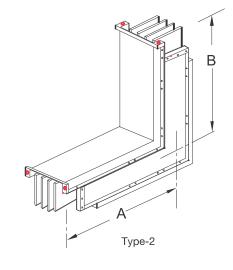


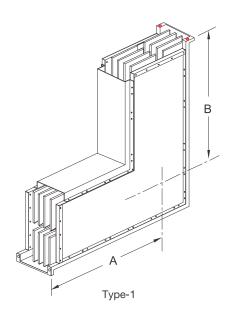


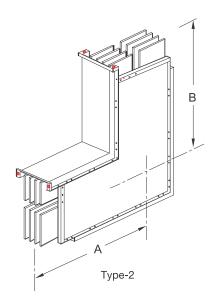
Flat Elbow

Current Rating	Standard Dimn. A x B (mm)	Minimum Dimn. A x B (mm)	Maximum Dimn. A x B (mm)
Copper - 125~2000A	500 x 500	300 x 300	750 x 750
Aluminium - 200~1250A	500 x 500	300 x 300	750 x 750







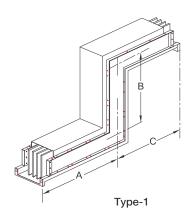


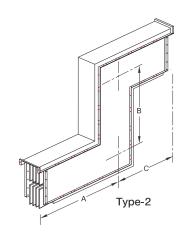




Offset Flat Elbow

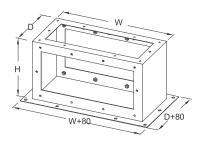
Current Rating	Standard Dimn. AxBxC (mm)	Minimum Dimn. AxBxC (mm)	Maximum Dimn. AxBxC (mm)
Copper - 125~2000A	500 x 500 x 500	300 x 300 x 300	450 x 600 x 450
Aluminium - 200~1250A	500 x 500 x 500	300 x 300 x 300	450 x 600 x 450



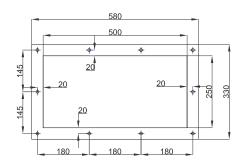


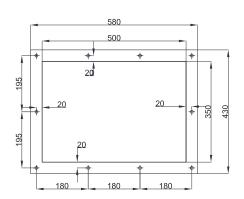
Flanged End Box

Current Rating	Standard Dimensions			
- Carrons riaming	W	D	Н	
Copper - 125~1000A	500	050	050	
Aluminium - 200~630A	500	250	250	
Copper - 1250~2000A	500	350	250	
Aluminium - 800~1250A	300	330	250	



Flanged End Box Drilling Details





Flanged End are required to connect Bustrunking run with panel or transformer directly of through Flanged End Box.





Flanged End

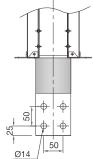
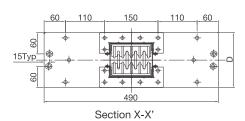
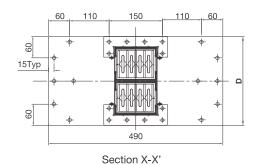


Figure -3 Busbar Width 90mm





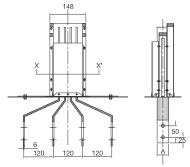


Figure - 4

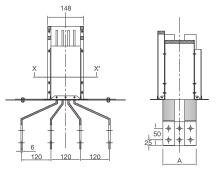


Figure - 5

Flanged End cut out & Drilling

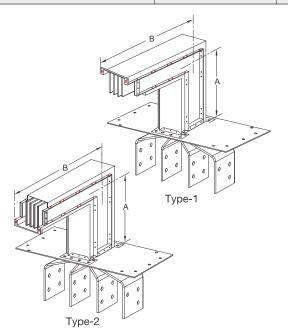
Busbar size	Sbar size Copper		Aluminium		Dime	nsions	Busbar	Terminal	
(No. Of Busbar) Ra	Rating	Code	Rating	Code	D	Α	Hole Details	Details	
	125	CBC 125	-	-	120	-	-		
20 x 6 (1)	315	CBC 315	200	CBA 200	145	20	Figure-1		
30 x 6 (1)	400	CBC 400	250	CBA 250	145	30	Figure-2		
40 x 6 (1)	500	CBC 500	315	CBA 315	145	40	Figure-2	Figure 4	
50 x 6 (1)	630	CBC 630	400	CBA 400	155	50	Figure-2	-	
70 x 6 (1)	800	CBC 800	500	CBA 500	175	70	Figure-2		
90 x 6 (1)	1000	CBC 1000	630	CBA 630	195	90	Figure-3		
50 x 6 (2)	1250	CBC 1250	800	CBA 800	250	145	Figure-2		
70 x 6 (2)	1750	CBC 1750	1000	CBA 1000	290	185	Figure-2	Figure 5	
90 x 6 (2)	2000	CBC 2000	1250	CBA 1250	330	225	Figure-3		

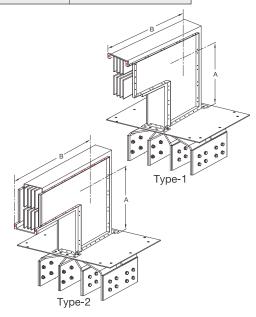




Flanged End with Flat Elbow

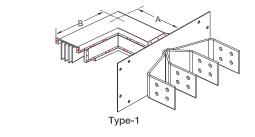
Current Rating	Standard Dimn. AxB (mm)	Minimum Dimn. AxB (mm)	Maximum Dimn. AxB (mm)
Copper - 125~2000A	500 x 500	300 x 300	600 x 600
Aluminium - 200~1250A	500 x 500	300 x 300	600 x 600

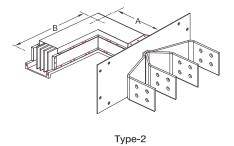


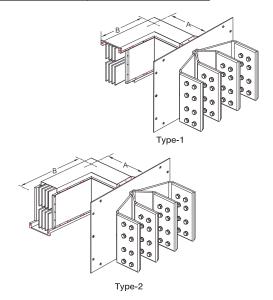


Flanged End with Edge Elbow

Current Rating	Standard Dimn. AxB (mm)	Minimum Dimn. AxB (mm)	Maximum Dimn. AxB (mm)
Copper - 125~2000A	500 x 500	175 x 300	600 x 600
Aluminium - 200~1250A	500 x 500	175 x 300	600 x 600

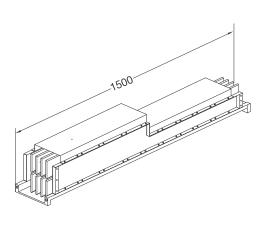




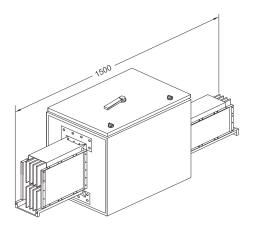


These are required to connect two dissimilar rating of bustrunking. Reducer may be designed with switching or isolating device.

Reducer



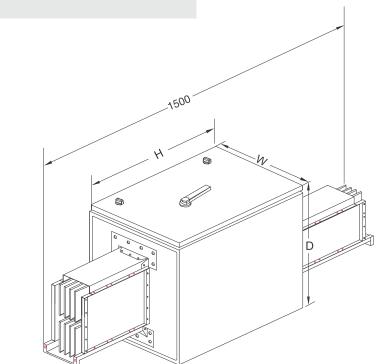
Reducer (Direct)



Reducer (Switchgear)

 These are required to isolate the bustrunking run in between, for various reasons. Section Isolator Unit can be fitted with load Break Switches / SFU's / MCCB's.

Sectional Isolator

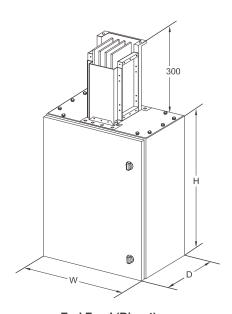




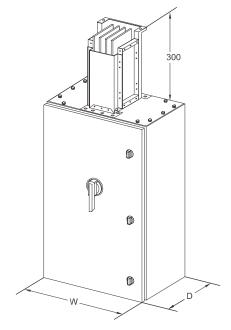


End Feed

- To charge bustrunking through cables from one end of bustrunking.
- End feed is available with sufficient space for direct connection through lugs and bolts. MCCB, SFU, Isolators, fuse holders etc. can be fitted in End Feed as per requirement.
- 300 mm length of bustrunking is integrally fitted (measured with bustrunking) along with End Feed as standard practice so that joint between End Feed and bustrunking is exactly same as joint of two normal bustrunking lengths.
- Undrilled cable gland plate is provided at bottom for multiple cable entry.



End Feed (Direct)



End Feed (Switchgear)

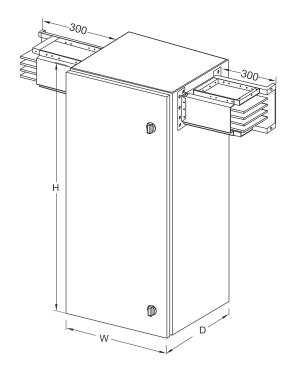
Code	Dimensions				
	Н	W	D		
CBC125 to CBC400	400	400	250		
CBA200 to CBA400	400	400	230		
CBC500 to CBC1000	600	400	250		
CBA500 to CBA630	000	400	230		
CBC1250 & CBA800	600	500	370		
CBA1250	000	300	370		
CBC1750 & CBC2000	800	500	370		

Code	Dimensions				
	Н	W	D		
CBC125	800	400	250		
CBA200 to CBA250	000	400	250		
CBC315 to CBC630	800	400	250		
CBA315 to CBA630	000	400	250		
CBC800	800	500	370		
CBA1000	000	500	070		
CBC1250 to CBC2000	1000	500	370		
CBA800 to CBA1250	1000	000	0,0		

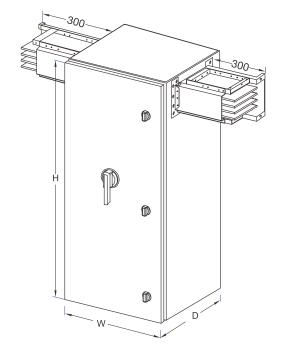


Center Feed Unit

- Center Feed is required to charge bustrunking through cables at any position between two section of bustrunking
- Center feed Unit is available with sufficient space for direct connection through lugs and bolts. MCCB,SFU, Isolators, fuse holders etc. can be fitted in Center Feed as per requirement.
- Undrilled cable gland plate is provided at bottom for multiple cable entry.
- 300+300mm of bustrunking is inbuilt in centre feed for any easy connection to bustrunking sections both sides.



Center Feed Unit (Direct)



Center Feed Unit (Switchgear)

Code	Dimensions				
	Н	W	D		
CBC125 to CBC400	600	400	250		
CBA200 to CBA400	000	400	250		
CBC500 to CBC1000	800	400	250		
CBA500 to CBA630	000	400	200		
CBC1250 & CBA800	800	500	370		
CBA1250	000	300	370		
CBC1750 & CBC2000	1000	500	370		

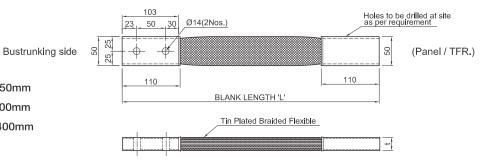
Code	Dimensions				
	Н	W	D		
CBC125 to CBC400	800	400	250		
CBA200 to CBA400	800	400	230		
CBC500 to CBC1000	800	400	250		
CBA500 to CBA630	000	400	250		
CBC1250 & CBA2000	1000	500	370		
CBA800 to CBA1250	1000	300	070		



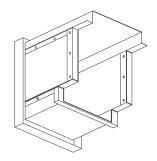


 Copper Flexible need to be used to connect flanged end busbar with busbars (Terminals) of Panel / Transformer / Generators.

Copper Flexible

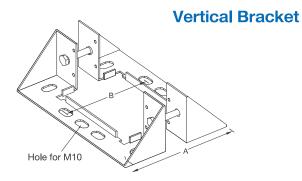


- Standard Dimension (L):- 350mm Minimum Dimension (L):- 300mm Maximum Dimension (L):- 400mm
- It is used to close the end of plug-in bustrunking run.
- It can be removed easily for extension of bustrunking.



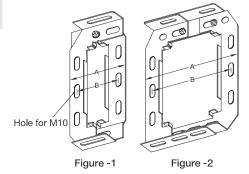
End Cover

It is required to support vertical bustrunking (Rising Main) through angle I channel support fitted on the wall.



It is required to support horizontal bustrunking (Horizontal Distribution) through angle I channel support fitted on the wall or ceiling.

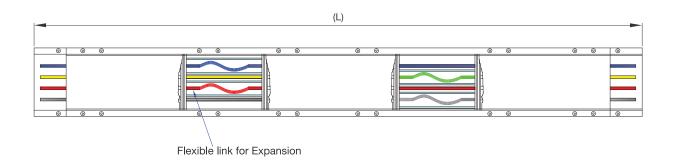
Horizontal Bracket





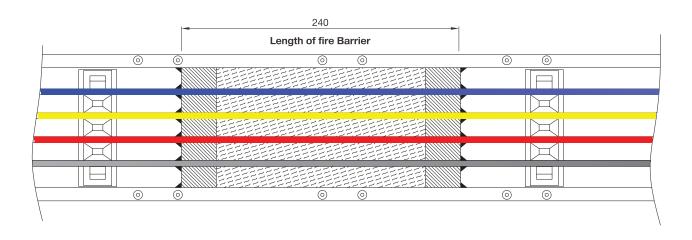
- Expansion joint is provision provided in standard bustrunking section against specific requirement.
- Recommended to be used after continuous run of 50 mtrs.
- Standard Dimension (L) 1500mm

Expansion joint



- Fire Barrier is provision provided in standard bustrunking section against specific requirement.
- Recommended to be used at each floor and wall crossing.
- Standard Dimension (L) 1500mm

Fire Barrier

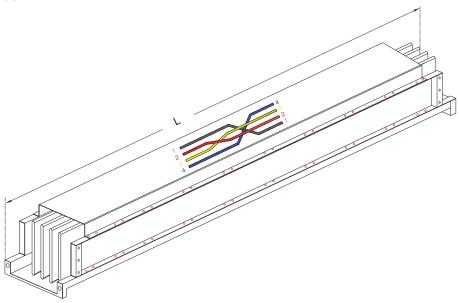




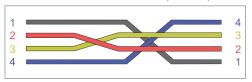


- Phase Transposition Unit
- Phase transposition unit are used to change the relative position of the phase conductors in order to balance the inductive reactances or to transpose the phases (such as NRYB to BYRN)
- To be used only in indoor Application.

Standard Dimension (L) :- 1500mm



PHASE TRANSPOSITION UNIT (TYPE-3)



PHASE TRANSPOSITION UNIT (TYPE-2)



PHASE TRANSPOSITION UNIT (TYPE-1a)



PHASE TRANSPOSITION UNIT (TYPE-1b)

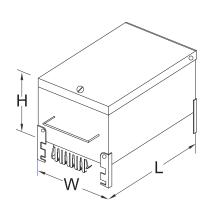


Note: One Element of 1500mm would be kept on hold if phase sequence is not known of any one side.

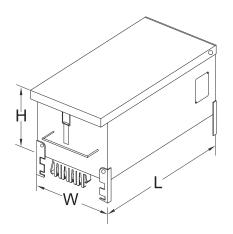


Plug-in-Box

- Plug in box enclosure is made from G. I with side hinged door.
- Plug in contacts are made out of Silver plated copper with spring steel backup pressure clips for ensuring uniform pressure and low contact resistance.
- For cables entry, provision of gland plates are provided on both sides and bottom of Plug in Box.
- Earth contact of Plug-in boxes makes first & breaks last.
- Plug in box can suitable for MCCB/SFU's with rotary handle and door interlocking.
- Plug in boxes are available with Interlocking with bustrunking to ensure "plug-in" and "Plug-Out" possible only in "Off" Condition.
- Silver Plated contacts are properly shrouded isolated.
- Plug in box up to 400 A are compatible to all ratings of Bustrunking with 400 A Plug-inpoints
- Plug in boxes can only be fitted on to the Bustrunking with corrected polarity.



PIB X - S



PIB X - A

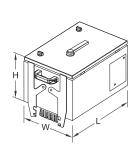
PARAMTER	PIB X PIB X 'S' (4B) 'S' (5B)		PIB X PIB X 'A' (4B) 'A' (5B		
	Without	Isolator	With Isolator		
With MCB / FUSES Provision	32A	-63A	32A-125A		
With Socket-1 No. Provision	32	2A	63A		
With MCB+Socket-1 No. Provision	NA		32A-63A		
With MCCB without R/H Provision	NA		32A-125A		
With MCCB+R/H Provision	NA		NA		
With SFU Provision	NA		NA		
FINAL BOX SIZE (LXWXH)	280x180x100 280x204x100		410x180x124	410x204x124	
Recommended Cable Size (Aluminium)	25 Sq.mm 25 Sq.mm		70 Sq.mm	70 Sq.mm	



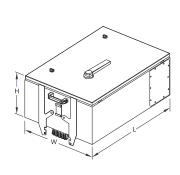


Plug-in-Box

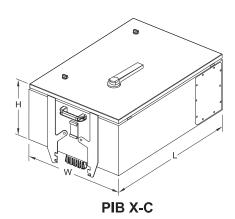
- Plug in box enclosure is made from G. I with side hinged door.
- Plug in contacts are made out of Silver plated copper with spring steel backup pressure clips for ensuring uniform pressure and low contact resistance.
- For cables entry, provision of gland plates are provided on both sides and bottom of Plug in Box.
- Earth contact of Plug-in boxes makes first & breaks last.
- Plug in box can suitable for MCCB/SFU's with rotary handle and door interlocking.
- Plug in boxes are available with Interlocking with bustrunking to ensure "plug-in" and "Plug-Out" possible only in "Off" Condition.
- Silver Plated contacts are properly shrouded isolated.
- Plug in box up to 400 A are compatible to all ratings of Bustrunking with 400 A Plug-in-points
- Plug in boxes can only be fitted on to the Bustrunking with corrected polarity.



PIB X-N



PIB X-B



PARAMTER	PIB X 'N' (4B)	PIB X 'N' (5B)	PIB X 'B' (4B)	PIB X 'B' (5B)	PIB X 'C' (4B)	PIB X 'C' (5B)	
	Without	Isolator	Without	Isolator	Without	Without Isolator	
With MCB / FUSES Provision	N	IA	NA		NA		
With Socket-1 No. Provision	NA		NA		NA		
With MCB+Socket-1 No. Provision	NA		NA		NA		
With MCCB without R/H Provision	NA		160A-250A		315A-400A		
With MCCB+R/H Provision	32A-125A		160A-250A		315A-400A		
With SFU Provision	32A-125A		160A-250A		315A-400A		
FINAL BOX SIZE (LXWXH)	430x300x200		500x300x250		600x400x250		
Recommended Cable Size (Aluminium)	70 Sq.mm	70 Sq.mm	150 Sq.mm	150 Sq.mm	2x150 Sq.mm	2x150 Sq.mm	



Busway Route Planner

Customer:								Da	ite: ———	
Information required fo	r quotat						our inquiry.			
In Un		Free		Temp. t₀	t_{max}	Project :				
Α	V		Hz	°°C	°C	Job no. :				
Conductors	3P	N	PE	+ -		Line	Length total	Outdoor	∆ U %	Tap off's In
Cu□Al□						no.	m	m		no.
		\times					X			
	\downarrow					$\times \downarrow \times$		\mathbb{X}/\mathbb{X}		$\times \downarrow >$
	\downarrow					$\times\!\!\!/\!\!\!\!/$		\times		$* \bigcirc$
	\searrow					\times		\times		$\star \bigcirc$
	*					\star		\times		\star
	$^{\times}$	X				$\star \star \star$	X		\times	\star
	\times	\times	\times		X		$\mathbb{X}_{\mathbb{X}}$		$\times \hspace{-0.1cm} $	
	\mathbb{Z}	\times	\times	X	X		$\times\!\!\!/\!\!\!\!/$		\times	
	\star	\times	\times	X	X		\times		\times	
	\star^*	\times					\times		$\star \uparrow \star$	
	\downarrow \times					$\times \hspace{-0.1cm} \times \hspace{-0.1cm} \times$		$\mathbb{X}_{\mathbb{X}}$		\times
	\downarrow					$\times \hspace{-0.1cm} \mid \hspace{-0.1cm} \times$		\mathbb{X}		$\times \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$
						\times		\times		\times
						\times		\times		$\star \rangle$
	*					$\star \uparrow \star$		\times		\star
	\times	\times	\times		X	$\downarrow \uparrow \downarrow$	$\mathbb{X}_{\mathbb{X}}$		\times	\star
	\mathbb{Z}	\times	\times		\times		\mathbb{X}/\mathbb{X}		\times	
	K	\times	\times	X	X		$\times \times$		\times	
		\times	\times		X		\times		\times	
	$\downarrow \chi$	\times				*	$\star \star \star$		$\star \star \star$	
	\downarrow					$\times \hspace{-0.1cm} $		\times		\times
	$\downarrow \rangle$					$\times \hspace{-0.1cm} \mid \hspace{-0.1cm} \times$		$\times \hspace{-0.5em} \times \hspace{-0.5em} \times$		$\times\!\!\!\!/$
						$\times \times$		$\times \times$		$\times \triangleright$
	\uparrow					$\star \uparrow \star$		\times		\star
	$^{\times}$	X				$\star \star \star$	X	$\star \star \star$		\star
	*	\times	\mathbb{X}		$ \times $		$\mathbb{X}_{\downarrow}\mathbb{X}$		$\times \downarrow \times$	$\downarrow \times$
	\mathbb{X}	\times	\mathbb{X}				$\times \downarrow \times$		$\times \downarrow \times$	$\downarrow \times$
	\star	\times	X		X		\times		\times	
	$\downarrow \nearrow$	$\downarrow $				*	*		$\star \uparrow \downarrow$	**





Certifications









Certifications













Reference List - Domestic

CUSTOMER	PROJECT	PRODUCT	CITY
Kapoor Electricals Pvt. Ltd.	ASSAM Project	CBA500,LB C40	ASSAM
HEC Infra Projects Pvt Ltd.Ahmedabad	Brakes India Ltd. Jhagadia.	CBC2000,CBA 1000,CBA 500,SBA 100N2	AHMEDABAD
Palican Associates	Toyota Kirlosker	CBC400/630/800	BANGALORE
Micron Electricals	HP	CBC400	BANGALORE
Krishn Electricals	Nextteer Automotive	CBA250	BANGALORE
Micron Electricals	Alstom Transport India Ltd	CBA1250	BANGALORE
Micron Electricals	HP GR Tech Park	CBC315	BANGALORE
Krishn Electricals, Bangalore	Kriloskar Toyota	CBC630,800	BANGALORE
Pragathi Controls, Bangalore	Manipal Health Corporation, Bangalore	CBA630, CBA800, CBA1250,SBA200N2	BANGALORE
Sterling & Wilson Ltd, Patna	IIT, Patna	CBA250,400,500	BIHAR
Sterling & Wilson Ltd, Patna	IIT, Patna	CBA250,500,800	BIHAR
Spark On Rivulet, Pune	Virgo-Chennai	CBA630	CHENNAI
Sterling Wilson Pvt. Ltd	Perlos Expansion- Chennai	CBC630,CBC500,SBC125N2	CHENNAI
Micron Electrical	M/s Satyam,Chennai	CBA400,CBC630,CBC800,SBA175N2	CHENNAI
ETA Engg.Pvt Ltd	unipres India P Ltd Chennai	CBA800	CHENNAI
Sterling & Wilson	M/s., WABCO TVS ,Chennai	CBC400/2000	CHENNAI
Infosys Limited	Infosys-SDB9-Chennai	CBA250/400/630	CHENNAI
	SAC Engineering Components Pvt Ltd,		
Cosmos Enterprises, Chennai	Gummidipoondi	CBC630	CHENNAI
Sterling & Wilson, Chennai	Renault Nissan Line 2, Oragadam, T.N	CBC1000,SBA175N2,SBA200N1	CHENNAI
E Power Engineering, Chennai	Renault Nissan	CBA1000, SBA60N1,	CHENNAI
Kamladityya Construction Pvt. Ltd.Dwarka, New Delhi	NDMC Staff Quater,New Delhi	CBA 400	DELHI
Suprabhat Associates Pvt. Ltd., Delhi	Project at Khetri, Rajasthan	LBC404BASSP3,LBC402BASSP3	DELHI
Ahluwalia Contracts India limited Delhi	Hero moto Corp Neemrana Alwar	CBA400	DELHI
Consortium of Sudhir Power Projects Ltd. & Cobra Instalaciones y Servicios S.A Spain, New Delhi	DMRC CE-09 LOT-3, New Delhi	LBC258BG5SP3,LBC252BG5SP3	DELHI
Ramesh Electric Works, New Delhi	Sarita Vihar Under Pass, New Delhi	LBC634BGI5SP3,LBC404BGI5SP3	DELHI
Sudhir Power Projects Limited, Gurgaon	RCF,Raebarelly	CBA630	HARYANA
NKG INFRASTRUCTURE LIMITED, Faridabad	ESIC Hospital Faridabad	CBA1250,CBA1000,CBA800,CBA250	HARYANA
Triple A Engineering Pvt. Ltd., Gurgaon,	Vatika India Next, Gurgaon, Haryana	CBA630	HARYANA
Triple A Engineering Pvt. Ltd.Gurgaon,	Vatika Sovereign, Gurgaon	CBA630/300	HARYANA
Triple A Engineering Pvt. Ltd.Gurgaon,	Vatika Seven Lamps, Gurgaon	CBA800	HARYANA
Jayabheri Properties Pvt. Ltd.	Jayabheri Oven County, Hyderabad	CBA400 & CBA630	HYDERABAD
Sterling Electro Enterprise P Ltd	Mahindra Vehicles Mfg Ltd J Block	CBA630,500,400	HYDERABAD
Aster Electricals Engineering	Tempus Power,	CBA630/CBA400	HYDERABAD
Arjun Electricals	Rainbow Vistas	CBA630,400	HYDERABAD
Sterling & wilson	lighton mobile (Perlos)	CBC400,500,630/ LBC25	HYDERABAD
Stelcit Power Systems	ESIC Hyderabad	CBA1000,800,630,200,SBA175N2,175N1	HYDERABAD
Aparna Constructions and Estate Pvt Ltd,	Aparna Hill Park	CBA630, CBA400	HYDERABAD
Cyber City Builders and developers Pvt Ltd	Cyber City Towers	CBA630,CBA800	HYDERABAD
Square A Enterprises, Hyderabad	NTPC, Pochampadu	CBA200, CBA250, SBA150N2, SBA125N1	HYDERABAD
Micron Electricals, Hyderabad	Devabhumi Relators Pvt Ltd, Hyderabad	LA16DA,SBA150N2,SBA175N2,SBA175N1	HYDERABAD
Aay Kay Electrical Enterprises, Hyderabad	My Home ABHRA, Hyderabad	CBA400,250	HYDERABAD
M/s The Power and control,Kolkata	IISER,Haringhata (Part-II)	CBA800,CBA315,CBA500	KOLKATA
Sterling & Wilson Ltd, Kolkata	Mani Casadona, Rajarhat	CBA1250,1000,800,630	KOLKATA
J.K Electric Engineering Works, Kolkata	IISER Haringhata, Kalyani	CBA400,250	KOLKATA
Sterling & Wilson Ltd, Kolkata	TCS Rajarhat, Kolkata	CU Flexibles	KOLKATA
Unity Infraprojects Limited	DCSEM-Anushakti Nagar	CBC 400	MUMBAI
Cimechel Engineers & Consultants,, Mumbai	DCSEM-Anushakti Nagar	CBC 400	MUMBAI
SWE Engineering Works Pvt Ltd L-333 Saritavihar	Amarpali Hotel noida	CBA1000,800,630,400,250	NOIDA
New Holland Fiat (India) Pvt Ltd,Nida	New Holland Fiat (India) Pvt Ltd,Nida	CBA1000,CBA200	NOIDA
Geetu Engineering Constructions pvt Ltd, Noida	Geetu Engineering Constructions pvt	CBA800	NOIDA
CURROL IMITER MOIR	Ltd,Noida	OD4045 (OD4450) 10 (OD4450) 15	NOID *
SUBROS LIMITED NOIDA	NOIDA	CBA315/SBA150N3/SBA100N2	NOIDA
Sterling & Wilson Limited, NOIDA, UP	New Holland Fiat India Pvt. Ltd., UP	CBA1000/250/CBC315	NOIDA



Reference List - Domestic

Orissa Industrial Infrastructure development Corporation, Bhuwaneswar	IDCO Towers Bhuwaneswar	CBC1250	ORISSA
Amber Electrotech Ltd ,New Delhi	AIIMS Bhubaneswar	CBA500	ORISSA
SPARK ON RIVULET	Pee Vee Textiles Ltd Pune	CBA250	PUNE
Mahindra Heavy Engineering Pune	Mahindra Heavy Engineering Pune	CBA630/400/315	PUNE
BCC Developers & Promoters Pvt. Ltd.Ludhiana	Rass Contractors & Engg., Ludhiana	CBA200	PUNJAB
Amtek Auto Ltd,	Amtek Piston Division Chopanki, Rajasthan	CBA1250,CBA1000,CBA800,CBA630	RAJASTHAN
Shree Electricals & Engineers	ICICI Jaipur	CBC400	RAJASTHAN
J.K. Electric Contractor, Rajasthan	New Rajasthan High Court	CBA800/400/200	RAJASTHAN
Triple A Engineering Pvt. Ltd. Jaipur, Rajasthan	Varika Infotech City, Jaipur-31	CBA630/800	RAJASTHAN
Happy electricals New delhi	AIIMS Rishikesh	CBA630,500 & SBA 175N2	RISHIKESH
Amber Electrotech Ltd ,New Delhi	AIIMS Rishikesh	CBA315,CBA400	RISHIKESH
Hitech Errectors Pvt ,New Delhi	New Rail Coach Factory Rae Barily,U.P	CBA630	UP
Sterling and Wilson Ltd	Rail Coach factory.Rae Barelly	CBA630	UP
AFSA Traders	Nagpur	CBC400/630,CBA400	UP
Kamladityya Construction Pvt. Ltd-Bokaro	Ismu academic block-Dhanbad	CBA400,CBA800	UP











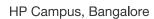


Reference List - Overseas

CUSTOMER	PROJECT	PRODUCT	COUNTRY
Doha Technical services	B+G+7 Al. Mahmoud	CBC40	Qatar
Drient Star international Doha Qatar	Stock order	CBC400,315	Qatar
N. mufta Doha	Stock order	CBC630	Qatar
ech Hard Building Material L.L.C Dubai UAE	Magore project	CBC 630	UAE
ech Hard Building Material L.L.C Dubai UAE	Mindu Project	CBC 630	UAE
ISC SOEMI Russia	JSC SOEMI Russia	CBA400 & CBA630	Russia
Central Electricals International Ltd.	BIMA Towers	CBC630/315	UAE
Central Electricals International Ltd.	Fidha Tower kenya	CBA630/400	UAE
JSC SOEMI Russia	JSC SOEMI Russia	CBA400 & CBA630	Russia
Patronics Services (U) Ltd., Uganda	Self	CBC400	South Africa
ELTA Russia	self	CBC40N1	Russia
Speciallised Power systems Ltd.	NA NA	CBA630	UAE
JSC SOEMI Russia	JSC SOEMI Russia	CBA250,400 & 630	Russia
Switchgear & Controls Ltd Kenya	Switchgear & Controls Ltd Kenya	CBC400	Kenya
Doha Techanical Services	B+G+7	CBC400	Qatar
Orient Star	Stock order	CBC315/400	UAE
JSC SOEMI Russia		CB250,CBA400 &	
	JSC SOEMI Russia	CBA630	Russia
Doha technical services	B+G+ 7 Residential Building	CBC400 CB250,CBA400 &	Qatar
JSC SOEMI Russia	JSC SOEMI Russia	CBA630	Russia
Soemi Russia	Soemi Russia	CBA630/400	Russia
Speciallised Power systems Ltd.	Speciallised Power systems Ltd.	cbc315	UAE
SOEMI - Russia	SOEMI - Russia	CBA400,630,250	Russia
MEI Mumbai	Uganda	CBC400/315	South Africa
Soemi Russia	Self	CBA250,400.630	Russia
MEI Mumbai	Uganda	CBC630	South Africa
Central electrical	KSMS Kenya	CBC400	Kenya
Central electrical	MOE Busbar	CBC315/400/600	Kenya
JSC Automatikos Sisemos	Lithunia	CBA800	Russia
Central Electrical International Limited	NSSF Busbar	CBC400	Kenya
TD Soemi Ltd	Soemi Russia	CBA630	Russia
DOHA TECHNICAL SERVICES DOHA	B+G+& Al Mansoura	CBC315	Qatar
DOHA TECHNICAL SERVICES DOHA	Modification of Existing Project	CBC315	Qatar
Qatar Switchgear	Jaidah Tower	CBC315	Qatar
DOHA TECHNICAL SERVICES DOHA	Abllan Aquaf	63A	Qatar
Qatar Switchgear	Stock Order	CBA400/SBC40N1/CB-	Qatar
	gatar development bank	C50N1/CBC315 CBC400	Qatar
Qatar Switchgear DTS doha	DTS Self Doha	EFU EFU	-
			Qatar
DTS doha	DTS Self Doha	EFU/PIB	Qatar
DTS Doha	B+G+6 Residential Building at Al Mansoura Doha	CBC315	Qatar
DTS Doha	DTS Stock Order	CBC315/CBC400	Qatar
Mohammed Hussain Al-Muftah Est Doha	Mohammed Hussain Al-Muftah Est Doha Stck Order	CBC400	UAE
Doha Technical Services, Doha- QATAR	Private Project Residential Building- Doha	CBC315	Qatar
Mohammed Hussain Al-Muftah Est Doha- QATAR	Doha Tower - Doha	CBC1250	Qatar
Doha Technical Services, Doha- QATAR	B+G+7 Residential building - Al Sadd - Doha	PIB	Qatar
Orient Star International -Doha	Stock Order- Doha, Qatar	CBC315 & 400A	Qatar
ROCHE Engineering Pvt .Ltd,Sri Lanka	Jinasena Engineering School,Sri Lanka	CBC315	Sri Lanka
Busbar Installations Pty. Ltd- Southdale	Craigcor Project - South Africa	CBA200A	South Africa
TD Soemi Ltd Russia	TD Soemi - Russia	CBA250A/400A	Russia
ΓD Soemi Ltd,Russia	TD Soemi, Russia	CBA630	Russia
Etacom NL	Amstredam	PIB	Australia
A.G.P Representaciones, Colombia	Colombia	CBA500,CBA315	Sri Lanka
Digi Drive Pvt Ltd,Faridabad	Tender, Tanzaniya-Thgough Digi Drive	CBC400	South Africa
Central Electricals International Ltd- KENYA	Kenya Polytechnic University & ICPAK	CBA315/SBA60N1	Kenya
MunHean Singapore PTE Ltd.SINGAPORE	Thanlynin star - additional PIB	PIB	Phillipines
MunHean Singapore PTE Ltd.SINGAPORE	E Block 3, Additional req	PIB	Phillipines
MunHean Singapore PTE Ltd.SINGAPORE	E Block 3, Additional PIB req.	PIB	Phillipines
MunHean Singapore PTE Ltd.SINGAPORE	Royal Sin Min - MYANMAR	CBA400A/SBA60N1	Myanmar
SL Switchgear Limited,NAIROBI, KENYA	NYERI HOSPITAL KENYA	CBC315	Kenya
			-



Vatika India Next, Gurgaon







New Holland Fiat Tractors (I) Pvt. Ltd. Noida





Dafna Tower 3&4, Doha

Some Reference Installations



Westbay 44 Tower, Doha



Shek. Falak Twin Tower, Doha



Port Saeed, Dubai



Dubai Silicon Oasis



Ghusais, Dubai

Ísobar



Isolated Phase Busducts (11~36kV up to 30000A)



Segregated / Non-Segregated Phase Busducts (415~33kV up to 6500A)





Low Voltage



Medium Voltage

metabar



Sandwich Busbar Trunking System (Low- Impedance) (400~6600A)



Air Insulated Busbar Trunking System (125~2000A)



Lighting Trunking System (25~63A)





GLOBAL SPECIALISTFOR POWER BUSBARS

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Eastern Region

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Western Region

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