



# SUPERB **POWER** SOLUTION



# **POWERLINE**

Powerline is one of the DE Busduct series meets the requirements of IEC standard and is manufactured in an ISO 9001 certified facilities provided by Dynamic Electrical base in Malaysia. If offers a complete line of compatible, compact constructed to suit the requirements to distribute electrical energy or power to the right and needed place such as transformer switchboard or switchboard - main sub board connection, and in the main power distributing for commercial, industrial, high-rise building, service industry, power plant, and server building. Busduct itself provides you advantages from various factors.

### **ACHIEVEMENT**

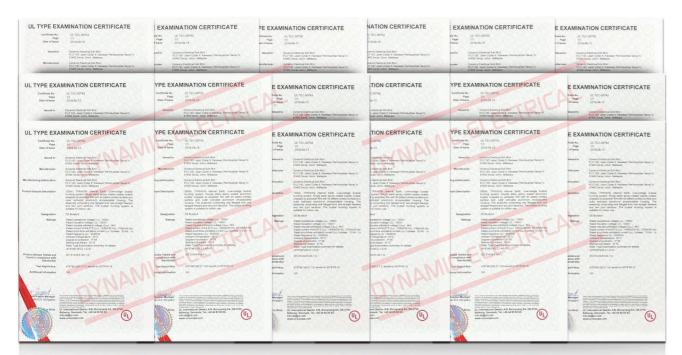




Copper busduct 850A – 6300A Aluminium Busduct 630A – 5000A



Tested & validated by Underwriters Laboratories (UL)





# UNDERWRITES LABORATORIES

### WHAT IS UL?

UL is an organisation working on product safety. UL has more than a century of experience by helping clients to bring products to market. Todays' global economy brings increasing technical requirements and an ever-greater need for speed to market with more than 10,000

people and 131 testing laboratories operating in over 39 counties.



#### WHAT IS DOS?

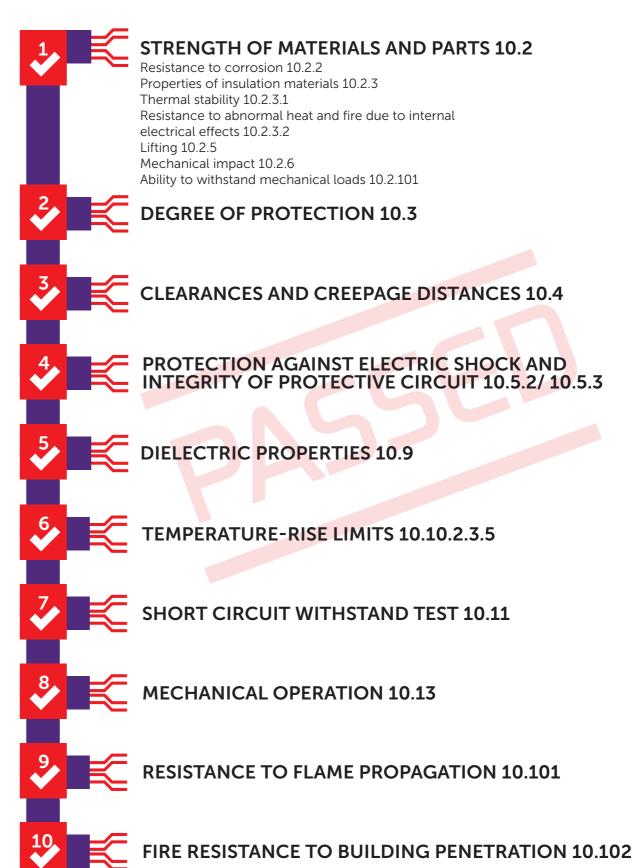
DQS Group controls the international business development of 80 offices in 60 countries. With a total group turnover of

about 120 million Euros (as of 12/2015), the group is among the top 10 of certification service providers for management systems.

With over 2,500 international auditors and experts in virtually every industry sector, DQS ensures a high level of expertise as well as consistency in values and audit principles. Today, the service portfolio of DQS Group comprises assessments and certifications to more than 200 different standards, plus unique company-specific requirements.

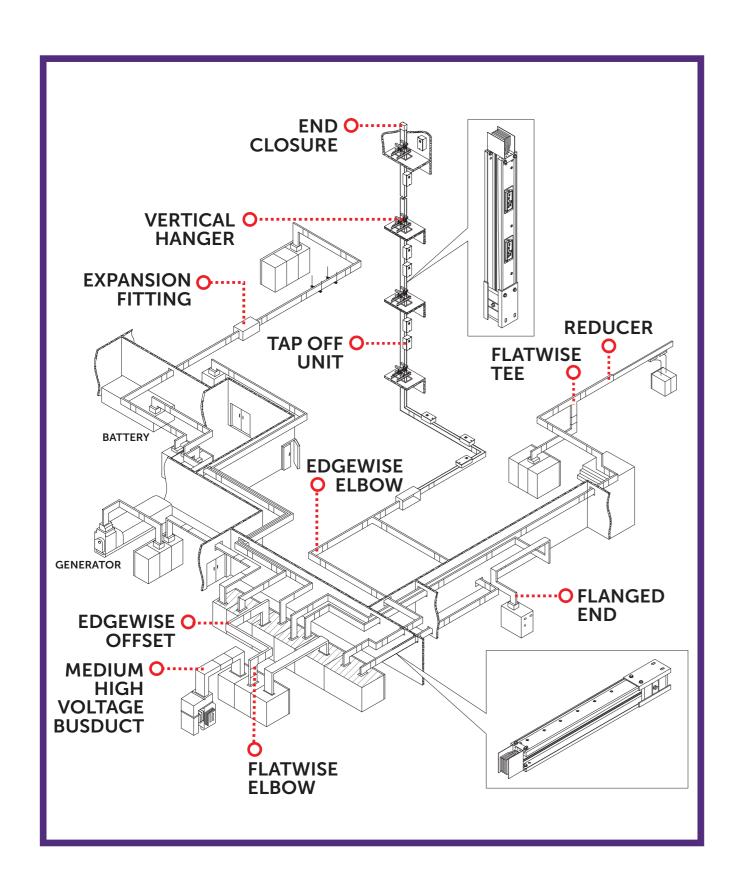


### FULL TYPE TESTED & CERTIFIED ACCORDING TO IEC 61439-6 STANDARD BY UL.



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### **DEBUSDUCT SYSTEM**



# GENERAL SPECIFICATION

# CONDUCTOR O 19.9% Cu Vith only 99.9% purity er will be used in our roduct to ensure low be contact resistance low yoltage drop. All

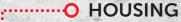
With only 99.9% purity copper will be used in our product to ensure low surface contact resistance and low voltage drop. All contact surface was electroplated with tin, this is to prevent surface from oxidation but to improve contact resistance.

### INSULATION O MATERIAL

Insulation used in DE Busduct,
Powerline system is
manufactured with a Class B
rated (130°C) polyester film.
The insulation wraps around
each bus bar, giving excellent
separation from phase-to
phase and phase-to-ground
while enhancing the short
circuit rating and long lasting.

#### Optional:

Polyester film Class F (155°C) Class H (180°C) Electrostatic Powder Coating





The Extruded Aluminium Housing with finishing of anodising helped it prevent corrosion.



Aluminium is good in heat dissipation.



Our patented two piece housing design improved the entire ingress protection of DE Busduct.



All the below test was tested on every rating instead of representative:

- Light weight and passed mechanical impact test
- 2. Highest IK10 standard
- 3. Lifting test & ability to withstand mechanical loads test passed with heavy load



Type of housing available upon request:

1. Electro Galvanised Steel 2. Stainless Steel

### O JOINT STACK



The design of joint for DE Busduct is Bridge Type.

Tin plated the contact surface for stable efficiency. Easy & faster installation. Design compliance with clearance & creepage distance standard. Double headed bolt is used on the joint with 55lb/ft +-5 designed for easy usage. Allow 10mm adjustment to correct site measurement inaccuracy.

04 O5

# BENEFIT OF DEBUSDUCT

### MORE COMPACT & SMALLER SIZE

Sandwich designed busduct system makes it ideal for all industrial applications. Smaller size means easier fit into tight hallway ceilings and will dramatically reduce your ceiling weight load. Besides, it also reduces delivery cost, simplifies storage and facilities handling.

### VIRTUALLY NO MAINTENANCE

Most busduct face weakness in their joint section. Therefore, we come out with a unique double headed bolt joint stack. It had been carefully and professionally designed to ensure that when joint stack is properly tightened, there is no need for retightened again in the subsequence year.

### PATENDED TWO PIECE HOUSING DESIGN

Housing for electric conductors design registration no: 17-00664-0101

DECLARATION OF CONFORMITY, CE.



### LOW INSTALLATION COST

Busduct snaps together and is easily hung over equipment, making power drops simple. Hence you can save your time and cost for installing the busduct system compared for installing cable tray.



### PREDICTABLE ELECTRICAL CHARACTERISTIC

Not only busduct system electrical characteristic can be verified independently which including voltage drop, short circuit ratings, weight, reactance, impedance, temperature rise and dielectric rating. Busduct system also had greater short circuit ratings and low voltage drop.

### **EXPANSION** FLEXIBILITY

Busduct is willing to grow together as your company

keep growing. Whereby, the busduct runs can be easily added or dis-assembled and relocated with minimum effort and safely. Most application will be fall into four categories: service entrance, single load, multiple load and riser.



EXTRUDED ALUMINIUM HOUSING





# WHY US?



### WHY DE BUSDUCT?

We are dynamically driven to provide our best products, services and solutions. We also emphasize in teamwork, strive on professionalism, to excel in research and development.

### **START** provide suggestion for client **PROCESS DESIGN & DEVELOPMENT** Our engineer will Provide technical support for participate to guide client. Provide system design & our clients from the initial stage to development. produce the best system for our clients. **PRODUCTION** INSTALLATION Product test and installation

support

# PHYSICAL DATA

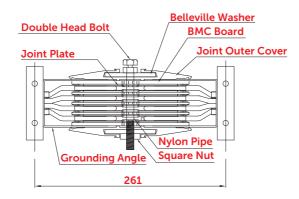


## JOINT STACK

Joint Stack is used for connection between Busduct sections. Each Busduct section is supplied with a Joint Stack and Joint Covers installed at one end of the busduct.

The Joint Stack features a single or multiple bolt design with double head break off bolts. This eliminates the need for torque wrenches during initial installation and assures proper torque. When the proper torque value is achieved, the top bolt head will shear off.

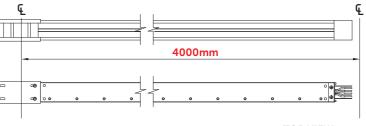
Each Joint Stack allows for an adjustment of + 10mm at each joint. Over-adjustment is prevented by the joint covers. It is possible to remove any joint stack assembly to allow electrical or physical removal of a busduct section.







MAX 4000mm MIN 610mm It carries the role to distribute current from power supply directly to the power system. Usually used in concentrated load sytem where it does not have Plug-in Outlet. Busduct available in maximum length 4000mm and with minimum length 610mm.





SIDE VIEW

# STRAIGHT LENGTH PLUG-IN

Isolated ground

Integral ground

STANDARD PLUG-IN SECTION TOP VIEW

Twin slot

Meet IP 2X

**Busduct housing** 

Plug-In section designed with plug-in openings centered on 543mm intervals. Its is available in both side of the section for optimum utilization. It is used in distribution load system required. Plug-in section available in standard length of 3000mm and minimum 742mm. The plug-in meet the highest IP55 (splash Proof).

# PLUG-IN SECTION CATAGORIES STANDARD BUSDUCT Outlets is on both sides on 543mm interval to optimized the amount of plug-in units in horizontal applications. RISER BUSDUCT Outlets is on one side on 543mm interval to fit the vertical applications. LIMITED ACCESS BUSDUCT Customized design, where the plug-in outlets can be placed as customer request.

### **PLUG-IN OUTLET FEATURES**

Molded guard designed is to eliminates the risk of incidential finger contact with live conductor. In additional, Plug-in Outlet also provided cover to be close during plug-in been taken off to protect the Plug-in contact surfaces from rust, water, pest and chemicals. Plug-in Outlet are IP2X rated whereby 12mm test probe is unable to enter a Plug-in Outlet. Proper marking provided on the connections on the Plug-in Outlet to ensure proper contact of phase and ground bars with Plug-in fingers.

### **ELBOW**

Elbow designed to ease and meet the changes of the direction of the busduct run. There are Flatwise and Edgewise elbows.

#### **EDGEWISE ELBOW**



The Edgewise elbow 90 bend standard measurement is 300mm for every ampere rating. It is simple and easy for installer to intall no matter it is in the right or the left running position.

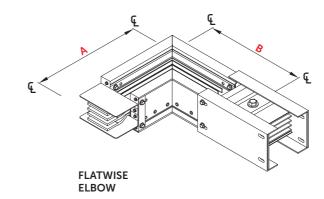
### **FLATWISE ELBOW**

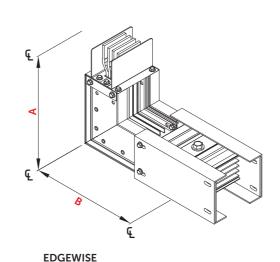
Flatwise elbows measurements different depend on size of current rating.



LENGTH (mm)

EDGEWISE (AxB)





**ELBOW** 

800		
1000	380 x 380	
1200	380 X 380	
1350		
1600		300 x 300
2000		
2500		
3200	510 x 510	
4000	310 X 310	
5000	650 x 650	
6300	030 X 030	

FLATWISE (AxB)

CURRENT RATING

> 400 630

PRODUCT DATA
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Offset is applied where critical site condition does not allow connection standard elbows together.



FLATWISE OFFSET

EDGEWISE OFFSET

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CURRENT	LENGTH (mm)		
RATING	FLATWISE (AxBxC)	EDGEWISE (AxBxC)	
400			
630			
800	1		
1000	750 750 750		
1200	350 x 350 x 350		
1350			
1600	1	300 x 300 x 300	
2000			
2500			
3200	510 x 510 x 510		
4000	210 x 210 x 210		
5000	CEO ~ CEO ~ CEO		
6300	650 x 650 x 650		

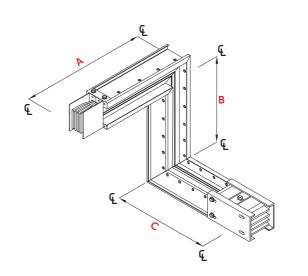
### PRODUCT DATA

# COMBINATION ELBOW

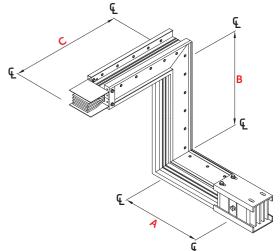
Combination Elbow is been designed to solve the problem where busduct routine from flatwise to edgewise or from edgewise to flatwise. Each designmeasurement different from the range of current size.

CURRENT	FLATWISE+EDGEWISE (mm)	
RATING	AxBxC	
400		
630		
800		
1000	380 x 380 x 300	
1200	360 X 360 X 300	
1350		
1600		
2000		
2500		
3200	510 x 510 x 300	
4000	210 X 210 X 200	
5000	650 x 650 x 300	
6300	030 x 030 x 300	

PRODUCT DATA

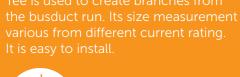






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# TEE





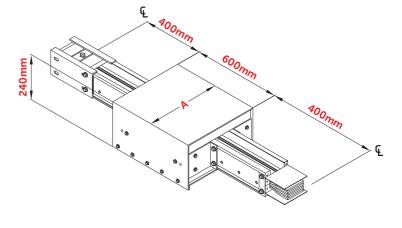
# EXPANSION FITTING Expansion Fitting provides for expansion and

expansion Fitting provides for expansion and contraction of a busduct run. In order to compensate the different in the coefficient of expansion between the copper bus bars and the housing, an expansion joint must be used.

Expansion joint to be installed at the center of long busduct runs, where both ends of the run are held in a permanent, fixed position or where a busduct crosses an expansion joint of a building.



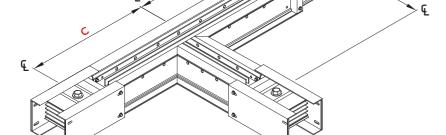
Expansion Joint allow for ±40mm movement along the length of the busduct system.



AMPERE (A)	A (mm)
400-1200	263
1350-2500	500
3200-6300	900

PRODUCT DATA





	_^\		
CURRENT		LENGTH (mm)	
	RATING	AxBxC	
	400		
	630		
	800		
	1000	380 x 380 x 380	
	1200	380 X 380 X 380	
	1350		
	1600		
	2000		
	2500		
	3200	510 x 510 x 510	
	4000	310 X 310 X 310	
	5000	650 x 650 x 650	
	6300	030 x 030 x 030	

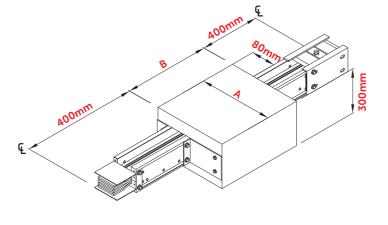
PRODUCT DATA



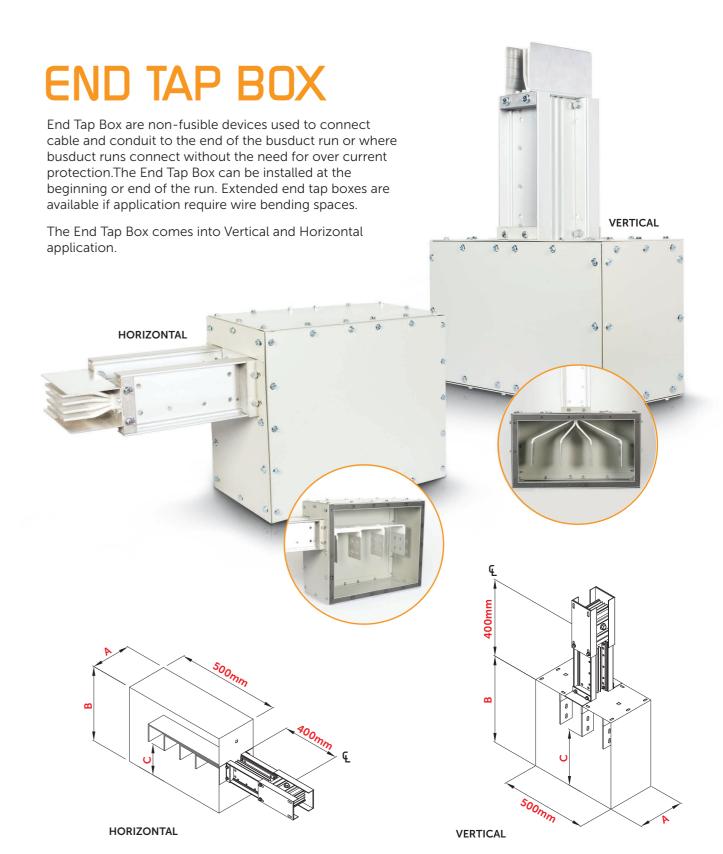
# **CENTER TAP BOX**

Center Tap Box is a device that is non-fusible utilized to take off power from middle of the busduct run.. It is used in the condition when loads served by the busduct run do not require over-current protection.

AMPERE (A)	A (mm)	B (mm)		
400-1200	600	380		
1350-2500	850	600		
3200-6300	1250	650		



PRODUCT DATA



/	\/\。			
	AMPERE (A)	A (mm)	B (mm)	C (mm)
	400-1200	250	400	160
Г	1350-2500	480	450	210
Г	3200-6300	890	500	260

AMPERE (A)	A (mm)	B (mm)	C (mm)
400-1200	250	400	200
1350-2500	480	500	300
3200-6300	890	600	400

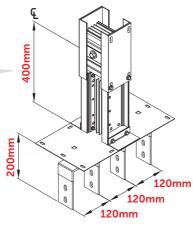
HORIZONTAL END TAP BOX PRODUCT DATA

VERTICAL END TAP BOX PRODUCT DATA

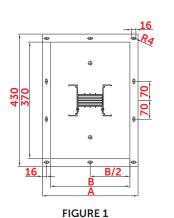
# FLANGED END

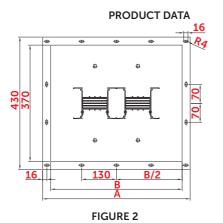
Flanged End provides direct connection into low voltage switchgear, control panel, and other electrical distribution equipment. See more details on the illustration for the flanged end drilling patterns and measurements. Flanged ends are shipped with one joint stack assembly.

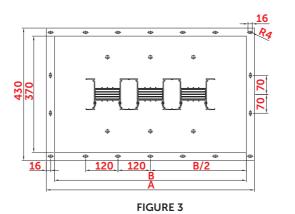
ALUMINIUM	DIMENSI	DIMENSION (mm)	
AMPERE	Α	В	FIG. NO.
400-630	209	149	1
800	224	164	1
1000	239	179	1
1200	269	209	1
1350	304	244	1
1600	339	279	1
2000	369	309	1
2650	508	448	2
3200	578	518	2
4000	638	578	2
5000	907	847	3



COPPER	DIMENSION (mm)		FIG. NO.
AMPERE	Α	В	FIG. NO.
400	189	129	1
600	199	139	1
850	209	149	1
1100	224	164	1
1250	239	179	1
1400	254	194	1
1650	269	209	1
2000	319	259	1
2500	359	299	1
3000	399	339	1
4000	538	478	2
5000	618	558	2
6300	877	817	3





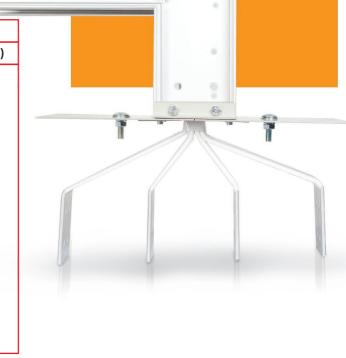


#### FLANGE END BUS DUCT PUNCHING PATTERN

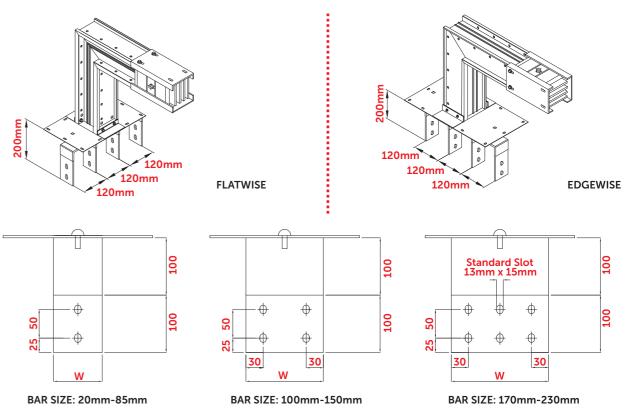
# COMBINATION FLANGED END

Combination Flanged End/Elbow can accommodated when the busduct is in close proximity to the switchgear.

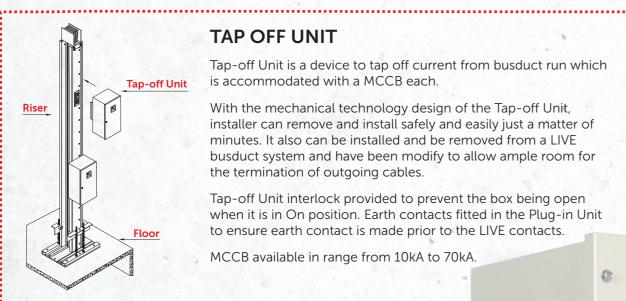
A			
CURRENT	LENGTH (mm)		
RATING	FLATWISE (A+B)	EDGEWISE (A+B)	
400			
630			
800			
1000			
1200	380 x 380		
1350			
1600		700 700	
2000		300 x 300	
2500			
3200	510 x 510		
4000			
5000	650 x 650		
6300	030 X 030		



### PRODUCT DATA



## **ACCESSORIES**



### TAP OFF UNIT

Tap-off Unit is a device to tap off current from busduct run which is accommodated with a MCCB each.

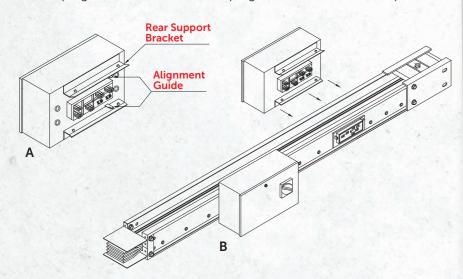
With the mechanical technology design of the Tap-off Unit, installer can remove and install safely and easily just a matter of minutes. It also can be installed and be removed from a LIVE busduct system and have been modify to allow ample room for the termination of outgoing cables.

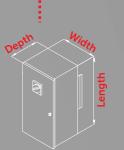
Tap-off Unit interlock provided to prevent the box being open when it is in On position. Earth contacts fitted in the Plug-in Unit to ensure earth contact is made prior to the LIVE contacts.

MCCB available in range from 10kA to 70kA

The Tap off unit also features with water resistance capability to suit customer's need. The plug in is rated IP40 as standard and optional IP55.

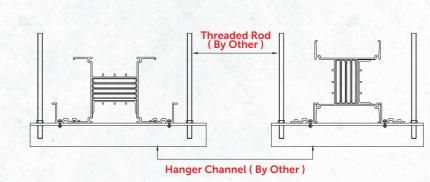
Picture show the plug in back position (A). It is easy to install (B)whereby just plug in the box as shown above picture and 'ON' the plug in unit. With the plug in unit turned 'on', the plug in unit door can't be open.



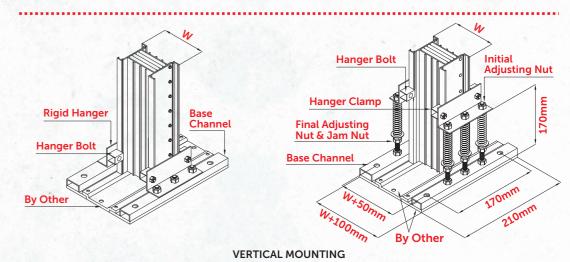


	AAADEDE (A)	LENGTH (mm)											
	AMPERE (A)	LENGTH	WIDTH	DEPTH									
	15-100	360	280	270									
	100-250	460	280	270									
	300-400	560	280	290									
	500-800	1000	480	380									
	1000 or above	PLEASE CO	NSULT MANU	IFACTURER									

PRODUCT DATA



#### HORIZONTAL MOUNTING

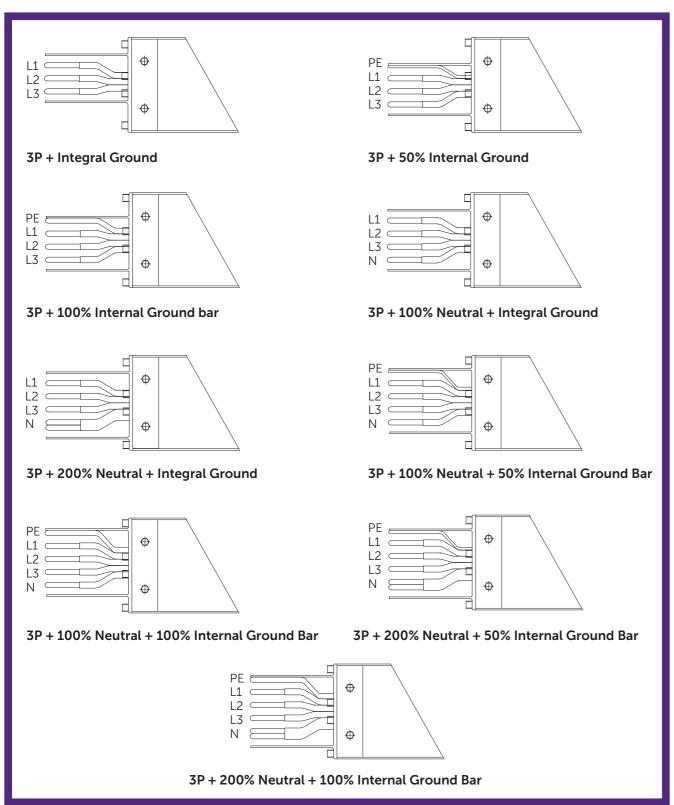


### **HANGERS**

Hangers been created to support the busduct run both in horizontal and vertical application. Vertical application comes into hanger with spring and hanger without spring. Spring hangers and floor supports must applicable to secure mounting of the busduct run in vertical applications. Horizontal application, contractors must supply drop rods in order to complete installation for hangers.

# BUSBAR CONFIGURATION

### POWERLINE BUSDUCT AVAILABLE IN VARIOUS BUSBAR CONFIGURATIONS:

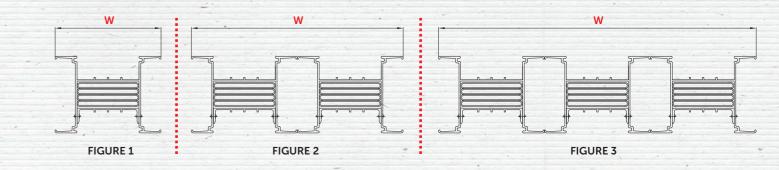


# CONDUCTOR CONSTRUCTION

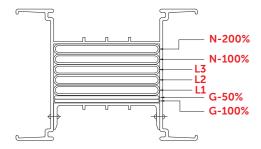
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### **WEIGHT & DIMENSION:**

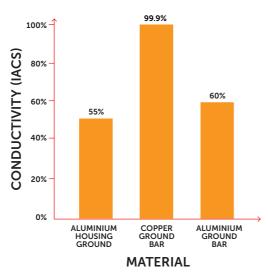
AMPERE	FIGURE	DIMENSION	APPROXIMATE WEIGHT (KG/3METER)							
AMPERE RATING	FIGURE NO	DIMENSION (W)	3P3W	3P3W+ 1/2PE	3P4W 100%N	3P4W 100%N+ 1/2PE	3P4W 200%N	3P4W 200%N+ 1/2PE		
			C	OPPER						
400	1	89	20	22	23	26	27	28		
600	1	99	25	27	30	32	34	37		
850	1	109	31	34	37	40	44	47		
1100	1	124	39	43	48	52	57	61		
1250	1	139	47	. 53	58	64	69	75		
1400	1	154	52	59	66	73	79	86		
1650	1	169	63	71	79	87	95	103		
2000	1 .	219	87	99	112	122	124	135		
2500	1	259	107	118	137	148	144	154		
3000	1	299	127	136	163	174	163	173		
4000	2	438	174	198	224	244	248	270		
- 5000	2	518	214	236	274	296	288	308		
6300	3	777	321	354	411	522	489	519		
			AL	MUINIM						
400-630	1	109	17	18	_ 19	20	21	22		
800	1	124	20	21	22	23	24	25		
1000	1	139	23	24	25	26	27	28		
1200	1	154	29	30	31	32	33	34		
1350	1	204	36	37	38	39	40	41		
1600	٠1	239	43	44	45	46	47	48		
2000	1	269	49	50	51	52	53	54		
2650	2	408	77	79	80	82	84	86		
3200	2	478	87	89	91	93	95	97		
4000	2	538	98	100	102	104	106	108		
5000	3	807	147	150	153	156	159	162		



# GROUND RESISTANCE



Powerline series aluminium housing provides extremely high ground capacity. The table showing the conductivity and current carrying capacity offered by the housing is at least 2 times greater than the active copper ground bar (sized 50% of the phase bar).



	•				
AMPERE RATING (A)	ALUMINIUM HOUSING CROSS SECTIONAL AREA INTEGRAL GROUND (mm²)	COPPER SECTIONAL AREA 50% INTERNAL GROUND BAR (mm²)	CAPACITY RATIO (INTEGRAL/INTERNAL)		
	COF	PPER			
400	1355	58	23.4 : 1		
600	1395	88	15.9 : 1		
850	1513	116	13 : 1		
1100	1603	161	10 : 1		
1250	1693	206	8.2 : 1		
1400	1799	251	7.2 : 1		
1650	1909	296	6.4 : 1		
2000	1931	401	4.8 : 1		
2500	2111	506	4.2 : 2		
3000	2769	596	4.6 : 2		
4000	2830	802	3.5 : 2		
5000	3190	1012	3.2 : 3		
6300	4269	1522	2.8 : 4		
	ALUM	INIUM			
400-630	1513	116	13 : 1		
800	1603	161	10 : 1		
1000	1693	206	8.2 : 1		
1200	1909	251	7.6 : 1		
1350	2139	296	7.2 : 1		
1600	2369	401	5.9 : 1		
2000	2569	506	5.1 : 1		
2650	3246	596	5.4 : 1		
3200	3706	802	4.6 : 1		
4000	4106	1012	4.1 : 1		
5000	5643	1522	3.7 : 1		

# ELECTRICAL DATA

### **VOLTAGE DROP VALUE FORMULA**

Formula below prepared to guide you to calculate actual voltage drop.

Actual voltage drop for different lengths and at loadings less than full rated current: Determine voltage Plug-in distributed New voltage drop: drop line-to neutral: Loads application: LINE TO LINE **VOLTAGE DROP** V<sub>a</sub> (TABLE) x ACTUAL LOAD AMP LOADS  $x \sqrt{3}(RCOS Ø + XSIN Ø)$ RATED LOAD x ACTUAL LENGTH (M) /100M x 0.866 where cos Ø = Power Factor REACTANCE (X) x 0.85 REACTANCE (X) x 3.75 Note: Do not change resistance value

### **VOLTAGE DROP & IMPEDANCE**

Table below indicates the busduct system electrical characteristics in copper and aluminium conductors. (50/60Hz)

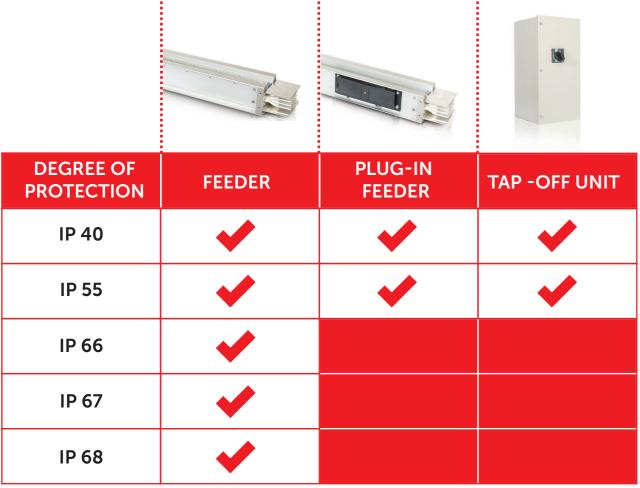
CURRE!	OHM <sup>3</sup>	*10^-3	/100M	VOLTA	GE DRC	P CON	CENTRA	TED LO	ADS LIN	E TO LIN	IE/100M	AT RAT	ED LOAI	), 50°C
LOAD	LINE TO LINE			POWER FACTOR										
LOAD	R	Χ	Z	1	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5
COPPER														
400	15.44	3.14	15.75	10.70	10.84	10.57	10.24	9.86	9.46	9.04	8.60	8.16	7.70	7.23
600	10.49	2.13	10.71	10.90	11.05	10.78	10.43	10.05	9.64	9.21	8.77	8.31	7.85	7.37
850	7.05	1.43	7.20	9.77	9.90	9.66	9.35	9.01	8.64	8.26	7.86	7.45	7.03	6.60
1100	4.90	0.99	5.01	8.51	8.62	8.41	8.14	7.84	7.52	7.19	6.84	6.49	6.12	5.75
1250	4.11	0.84	4.20	8.55	8.67	8.45	8.18	7.88	7.56	7.23	6.88	6.52	6.15	5.78
1400	3.18	0.65	3.24	7.43	7.53	7.35	7.11	6.85	6.57	6.28	5.98	5.67	5.35	5.02
1650	2.73	0.55	2.79	7.57	7.67	7.48	7.24	6.98	6.69	6.40	6.09	5.77	5.45	5.12
2000	2.08	0.42	2.12	7.20	7.30	7.12	6.89	6.64	6.37	6.08	5.79	5.49	5.18	4.87
2500	1.72	0.35	1.75	7.44	7.54	7.36	7.12	6.86	6.58	6.29	5.99	5.68	5.36	5.03
3000	1.45	0.29	1.48	8.01	8.12	7.92	7.67	7.39	7.09	6.77	6.45	6.11	5.77	5.42
4000	1.19	0.24	1.21	8.23	8.34	8.13	7.87	7.58	7.28	6.95	6.62	6.27	5.92	5.56
5000	0.90	0.18	0.92	7.78	7.89	7.69	7.45	7.17	6.88	6.58	6.26	5.93	5.60	5.26
6300	0.74	0.15	0.76	8.13	8.24	8.03	7.78	7.49	7.19	6.87	6.54	6.20	5.85	5.49
						AL	UMINI	JM						
400	11.10	2.26	11.30	7.70	7.80	7.61	7.36	7.09	6.81	6.50	6.19	5.87	5.54	5.20
630	11.10	2.26	11.30	12.12	12.28	11.98	11.60	11.17	10.72	10.24	9.75	9.24	8.72	8.19
800	7.99	1.62	8.15	11.07	11.22	10.94	10.59	10.20	9.79	9.35	8.90	8.44	7.97	7.48
1000	5.36	1.09	5.47	9.28	9.41	9.18	8.88	8.56	8.21	7.85	7.47	7.08	6.68	6.27
1200	4.54	0.92	4.63	9.44	9.57	9.33	9.03	8.70	8.35	7.98	7.59	7.20	6.79	6.38
1350	3.29	0.67	3.36	7.70	7.80	7.61	7.36	7.09	6.81	6.50	6.19	5.87	5.54	5.20
1600	3.14	0.64	3.20	8.69	8.81	8.59	8.32	8.01	7.69	7.34	6.99	6.63	6.25	5.87
2000	2.64	0.54	2.70	9.15	9.27	9.04	8.76	8.43	8.09	7.73	7.36	6.98	6.58	6.18
2650	1.88	0.38	1.92	8.16	8.26	8.06	7.80	7.52	7.21	6.89	6.56	6.22	5.87	5.51
3200	1.67	0.34	1.70	9.26	9.38	9.15	8.86	8.53	8.18	7.82	7.44	7.06	6.66	6.26
4000	1.42	0.29	1.45	9.83	9.97	9.72	9.41	9.06	8.70	8.31	7.91	7.50	7.08	6.65
5000	1.07	0.22	1.09	9.26	9.39	9.16	8.86	8.54	8.19	7.83	7.45	7.06	6.67	6.26

Note: Current density (amps/in2) rated busduct available. Please consult factory.

# PROTECTION DEGREE & SHORT CIRCUIT WITHSTAND

### WATER RESISTANCE & RUST PROTECTION

The busduct system has been successfully developed into as high as IP68, whereby the busduct is protected against dust tight and effects of immersion of water. This fine completion system is in 100% compliance with IEC standards and is approved through third party authority certification.



Note: All Powerline plug-In busduct is IP 2x rated. (Finger Safe Plug-in outlets)

### **IEC-529 LEVEL OF PROTECTION**

- **IP** Protection against object **2X** greater than 12mm.
- **IP** Enclosure is dust protected and spalashed water. Indoor application.
- **IP** Enclosure protects against object greater than 1mm. Indoor application.
- **IP** Enclosure is dust tight and protects against heavy jets. Outdoor application.
- IP Enclosure is dust tight and protects against effects ofimmersion in water 1m or more depth. Outdoor application.
- IP Enclosure protects against object44 greater than 1mm and spalashed water. Indoor application
- Enclosure is dust tight and protects against effects of immersion in water up to 1m depth. Outdoor application.

# FIRE RESISTANCE (FR) SYSTEM

Busduct available for fire resistance. The fire resistance specially designed upon customer's request where the application comes into an emergency and safety system. The rating available from 800A to 6300A feeder, larger rating also available. The design and construction is comply to IEC 331, BS6387 and JISA 1304.



### **RESISTANCE TO FIRE**

IEC 60331 category "C": 3 hours at 950°C



### RESISTANCE TO FIRE WITH WATER

IEC 60331 category "W": 640°C



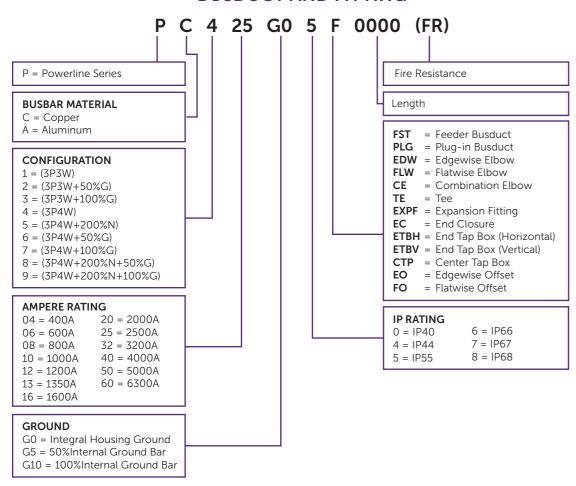
### RESISTANCE TO FIRE WITH MECHANICAL SHOCK

IEC 60331 category "Z": 950°C



# CATALOGUE NUMBERING SYSTEM

### **BUSDUCT AND FITTING**



#### **TAP OFF UNIT** P M 4 6 400 G0 0 IP RATING P = Powerline Series 0 = IP404 = IP44 **TAP-OFF UNIT TYPES** 5 = IP55 M=MCCB F=BS (Fusible Type) GROUND A=ACB G0 = Integral Housing Ground G5 = 50%Internal Ground Bar CONFIGURATION G10 = 100%Internal Ground Bar 1 = (3P3W)2 = (3P3W + 50%G)AMPERE RATING 3 = (3P3W + 100%G)015 = 15A400 = 400A4 = (3P4W)5 = (3P4W + 200%N)400 = 400A800 = 800A6 = (3P4W + 50%G)7 = (3P4W + 100%G)8 = (3P4W + 200%N + 50%G)RATED VOLTAGE 9 = (3P4W + 200%N + 100%G)2 = 220/110 Vac3 = 380/415Vac

6 = 690 Vac



### **Published by**Dynamic Electrical Sdn Bhd

Version 2018/001

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