



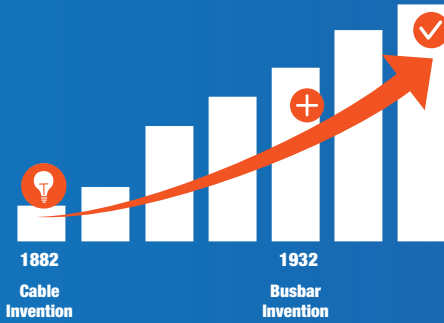
# Busbar Trunking System

The future of Power Distribution



## History of BTS invention

Busbar trunking system, first introduced in **1932**, solving the automation industries needs for flexible power distribution system

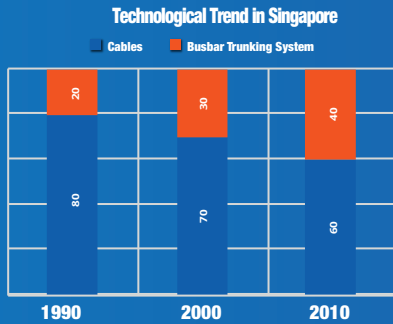


## How BTS became a popular choice in the power distribution market?

CABLES	BTS
INSULATED SHEATHED COPPER	METAL ENCLOSED BUSBAR DESIGN
<ul style="list-style-type: none"> <li>✓ High IP</li> <li>✓ Durable</li> <li>✓ Flexible</li> </ul>	<ul style="list-style-type: none"> <li>✓ Full range of IP</li> <li>✓ Low resistance</li> <li>✓ Compact</li> <li>✓ Save cost</li> <li>✓ Stringent type test guideline</li> </ul>

## BTS Adoption in Singapore

BTS accounts for **>50%** in power distribution of data centres, government industrial, and healthcare projects



## Why Tai Sin BTS?

Manufacturer of Power Distribution System since 1980s

- Only brand that conduct factory routine test in Singapore
- Provide local technical and replacement/repair support with shortest leadtime
- Type tested and certified to IEC 61439-6 standard
- Quality assured with 3rd party (KEMA) surveillance

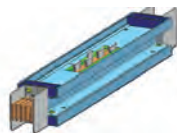
## Unique Tai Sin BTS Features



**Two pieces of housing**  
(Aluminium Housing)  
**Unique heat dissipation design**



**Smart TOU Plug assistance**



**True sandwich design**  
No air gap, plug in with full size conductor



**Error proof device**  
Ease of installation



**Thermal Indicator**  
Easy maintenance  
(Thermal Sticker indication At joint)

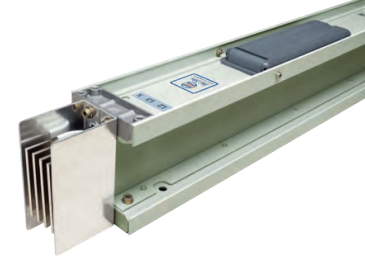


**Safe & reliable insulation system**  
(Epoxy Or Mylar)



KEMA Quality

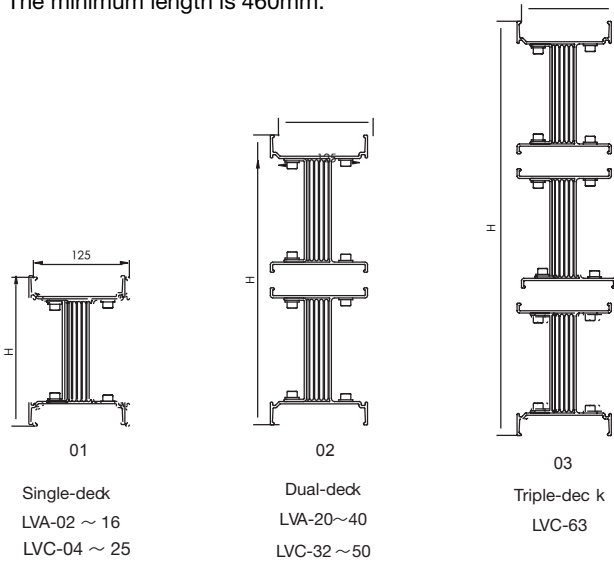




## PHYSICAL DATA

### Straight length

- Feeder, the straight length without outlets, can be installed either horizontally or vertically.
- The standard length is either 3000mm or 4000mm.
- The minimum length is 460mm.



### Aluminium conductor

Current (A)	Dimension (mm)		Weight per meter (kg/m)	Fig.
	Width (W)	Height (H)		
400	125	99	12.4	01
630	125	109	13.6	
800	125	124	17.1	
1000	125	139	19.9	
1250	125	164	25.4	
1600	125	204	34.3	
2000	125	244	42.8	
2500	125	323	59.4	
3200	125	393	66.5	02
4000	125	483	86.3	
5000	125	583	108.9	
6300	125	264	155.5	03

### Copper conductor

Current (A)	Dimension (mm)		Weight per meter (kg/m)	Fig.
	Width (W)	Height (H)		
400	125	113	7.9	01
630	125	128	9.3	
800	125	143	10.4	
1000	125	168	12.7	
1250	125	203	15.7	
1600	125	253	19.8	
2000	125	322	24.3	
2500	125	392	31	
3200	125	492	39.4	02
4000	125	572	48.9	
5000	125	632	57.2	

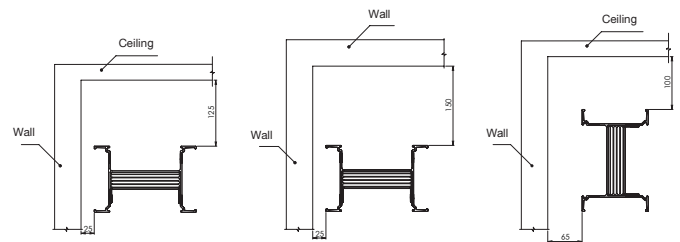
## INSTALLATION

LV busbar protection class can be up to IP66 according to different applications.

### Notes:

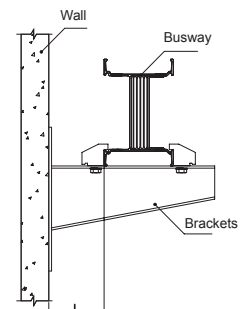
- IP40---"4" indicates that solid objects greater than 1mm in diameter will not penetrate the housing."0" denotes no protection.
- IP42---"4" indicates that solid objects greater than 1mm in diameter will not penetrate the housing."2" denotes prevention of water dripping inside by an angle of up to 15°.
- IP54---"5" for dust, "4" indicates splashes of water.
- IP65---"6" for dust density, "5" indicates protection from water spray.
- IP66---"6" for dust density, "6" for protection of stronger water spray

### Minimum clearance required for installation



### Minimum clearance required for plug-in box installation

Current level for plug-in box (A)	L(mm)
100	150
160	175
250	195
400	210
630	230
800	260
1000	300



## ABOUT US