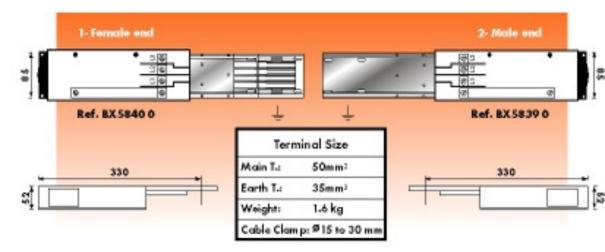
End Feed Unit

The end feed unit is available in 100 and 200 amps ratings with terminals for 3 phase, null and earth (3P+N+PE).



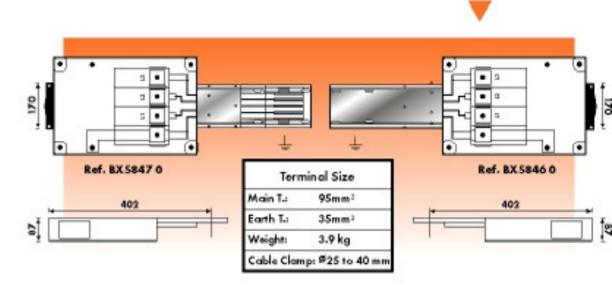


100 amps end feed box

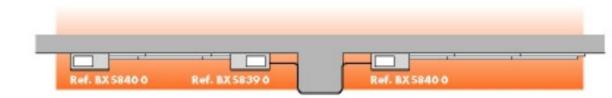
This box is used for feeding 40, 63 and 100 amps busducts and is available in left or right configuration.

200 amps end feed box

This box is used for feeding 160 and 200 amps busducts, available in left or right configuration.

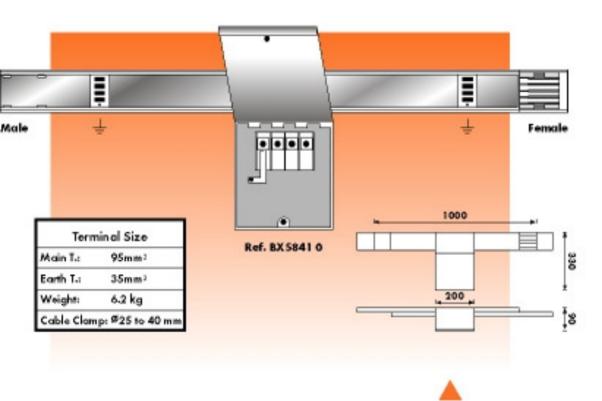






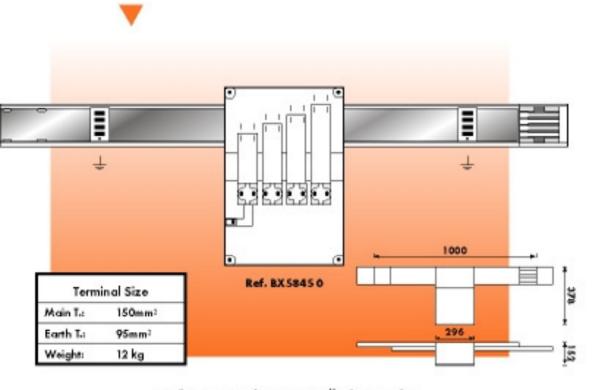
Center Feed Unit

Center feed units are supplied in dimensions shown below.



200 amps center feed box

100 amps center feed box







Tap-Off Boxes

Tap-off boxes with insulated thermoplastic material or hot dip galvanized steel housing are available as follows:

A- Plug-in tap-off units without switch (thermoplastic housing)

Type: 20A Terminals: 6 mm² Weight: 150 gr

Dimensions: 110 x80x45 mm



B- Plug-in tap-off unit with outlet socket (metal housing)

Type: 16 A 2P+PE-one socket

fuse: 10x38 16aM Weight: 800 gr

Dimensions: 110x80x45 mm

Type:20 A 3P+N+PE-one socket

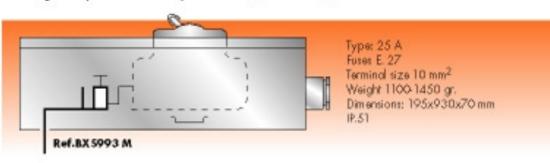
3fuses: 10x38 20aM Weight: 900 gr.

Dimensions: 165x85x60 mm



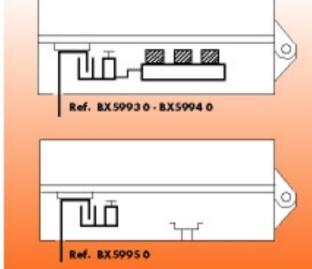
Ref. BX 5935 0

C- Plug-in tap-off unit with protection (metal box)



D- Plug-in tap-off unit with protection (thermoplastic housing - metal box)





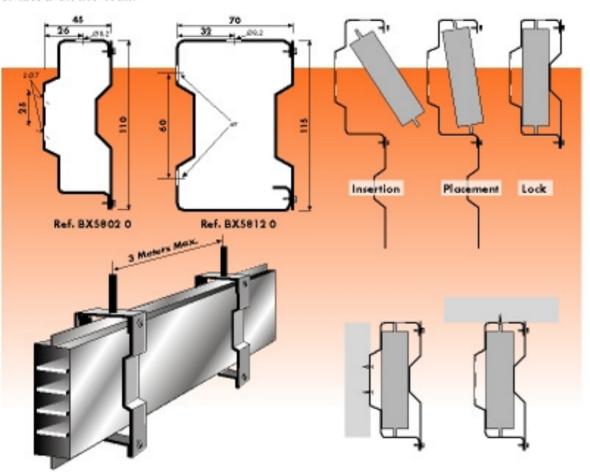
Type: 25, 50 A Fuses E. 27, E. 33 Terminal size 10, 16 mm² Weight 1150, 1200 gr. Dimensions: 260x110x110 mm

Type: 50 A max. Sym DIN roll for E 33 Fuses Weight 800 gr. Dimensions: 260x110x110 mm IP. 51



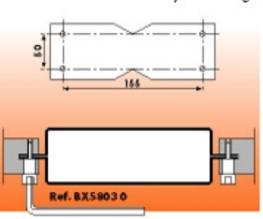
Horizontal installation stirrup

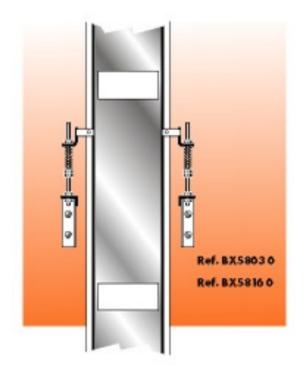
These stirrups are designed in such a way that busduct can be hanged from the ceiling or fixed on the wall.



Vertical installation stirrups:

Vertical stirrups are designed in two types, fixed type for vertical installation and spring type for busduct riser installation in multistory buildings.







Second Floor nstallation First Floor 1 Ground Floor Bosement

Riser Type

BX busducts are widely utilized as main as well as emergency power distribution in multistory residential, commercial and office buildings.

Technical details

A- Nominal current

Nominal current based on different loads are chosen from the following table:

Housing Dimensions (mm)		22x80			44×80	
Rated current/distributed load			100			
Rated current/concentrated load	40	63	90	145	100	
Conductors cross section	10	13	24	54	60	

B- Straight units

- Due to the light weight of busbars and limited current flow, busbar expansion occurs at junctions. No separate expansion unit is required.
- Number of tap-off outlets is determined by application specification. Generally, at least one outlet point is provided for every three meter unit.
- An indicator marks the direction of busduct installation. All tap-off box covers open downwards.
- Fire barrier elements may be installed at any desired location.

C- Vertical stirrups

For vertical holding of riser busducts, a string type vertical stirrup is used to separate busduct's movements from that of the building's.

D- Tap-off boxes

All types of standard BX tap-off boxes can be used with riser busduct without the need for extra parts.

In cases where the tap-off box is feeding the power meter unit on each floor, all necessary precautions will be taken to attach the tap-off box to the busduct, according to the regional electricity company recommendations.





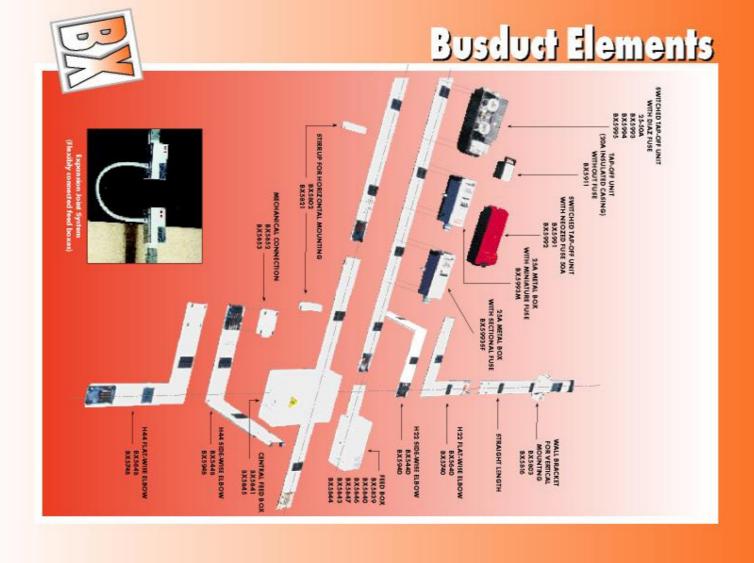
Headquesters: 6 Bogh Sara Drive, Shod Street, Molla Sadra Avenue, Tehran 14357, Iran Tek 1496 211 866 0967 - 72 Fax: 1496 211 866 0940 Email: girdin@mail.dci.co.ir Factory: Fifth Street, Kaveh Industrial Park, Sayeh, Iran Tek 1496 256234) 2601 Fax: (498 256234) 2602

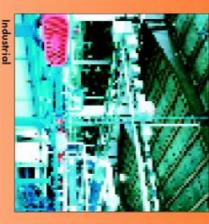


Low Power Distribution Busduct



40 to 200 A



















General Applications

DESCRIPTION	REF.	REF.	REF.	REF.	REF.	
Straight Longth		h 22 x 80		h 44	× 80	
magin rengin	40 A	63 A	100 A	160 A	200 A	
3P+PE 3m	*5364	*5366	*5360	5337	BX 5338	
3P+N+PE 3m	*5354	*5356	*5350	_		
3m	5344	5346	5340	5347	5348	
2m	5244	5246	5240	5247	5248	
1m	5144	5146	5140	5147	5148	
0.33m	•>	*	5040	•►	5048	
	* Space between win	dows expanded fro	m 33cm to 66cm			
	Box 1 (Terminals 50mm)		5839			
	Box 2 (Terminals 50mm)		5840			
Feeding Unit	Box 1 (Terminals 95mm)		5846	Box 1	5843	
3P+N+PE	Box 1 (Terminals 95mm)		5847	Box 2	5844	
	Central Box		5841	Central Box	5845	
	Elbow Sidewise 1		5440	Elbow Sidewise 1	5448	
	Elbow Sidewise 2		5940	Elbow Sidewise 2	5948	
Elbow - Tee	Elbow Flatwise 1		5640	Elbow Flatwise 1	5648	
3P+N+PE	Elbow Flatwise 2		5740	Elbow Flatwise 2	5748	
	Too Flatwise		5540 F	Tee Flatwise	5548 F	
	Too Sidowise		5540	Too Sidowise	5548	
	End Cover		5801	End Cover	5811	
	Fixing Stirrup		5802	Fixing Stirrup	5821	
	Fixing Stirrup for Vertical Mounting		5803	Fixing Stimup for	5816	
Accessories	Supplementary Fire Barrier		A	Vertical Mounting Supple. Fire Barrier	A	
	Mechanical Connection		5852	Mechanical Connect	5853	
	Window Shutter		5804	IP20> IP51	_	
	Supplementary Earth		В	•>	В	
	ооррания полу сол		0	-	0	
			Without Fuse		5911	
	20A Involating Caving		With Fuse	5912		
			With Neozed F			
				5991		
	Switched Tap-Off Insulating Casing	With Cylinder F	5992			
Tap-Off Unit 3P+N+PE			With Diazed Fu	5993		
			With Diazed Fu	5994		
	20A Metal Casing		3 PC 16A (2+P)	5984		
			2 Sockets 20A	5985		
	25A Metal Casing		With Diazed Fu	5993 S		
			With Cylinder F	5993 SF		
	40A Metal Casing		With Cylinder F	5992 SI		
			With Diazed Fu	5994 S		
			1 Socket 32A (:	5972 N		

When ordering add "BX" in front of reference number.

General

One of the best solutions for electrical power distribution to indoor machineries is prefabricated, pre-cabled electrical systems called Busduct, Busway or Busbar Trunking. This replaces conventional system of cable trays, cables, and distribution panels.

Low power distribution busduct, BX, with nominal currents of 40 to 200 amps, 3 phase, 500 volts, complies with IEC 439-2 standard and are suitable for requirements of industrial sites, workshops, laboratories, commercial buildings and as riser for multistory buildings.

Each piece consists of 4 conductors suitably insulated copper busbars, housed in galvanized steel with a continuous earth link system.

The busduct is manufactured in standard lengths with evenly spaced tap-off points. Different types of stirrups, fixing elements and special units make installation and adjustments of the busducts possible. Tap-off boxes with suitable protection alternatives for feeding electrical machineries are available in few sizes.

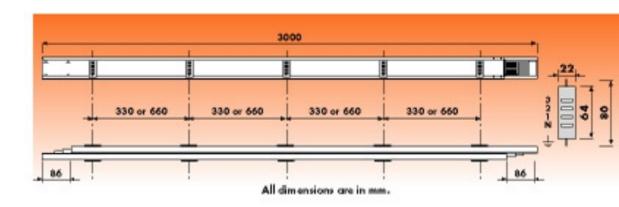
In general, busduct advantages compared with conventional distribution systems can be summarized as: 1- Metal casing, suitable insulation, tapoff outlets, plugs and earth connection system (PE), form a reliable, safe and

secure product.

- 2- Quality controls are based on IEC standards.
- 3- Busduct parts are interconnected easily and electrical conductivity is ensured at all connecting points.
- 4- Large number of tap-off points ensure electrical supply at any required location.
- 5- Installation is much simpler compared to conventional methods, resulting in very low installation costs.
- 6- Combination of busduct parts is regarded as an investment that can easily be reused at other locations.
- 7- The installed system is easily modified or expanded.

Electri	cal Cho	rac	ter	isti	cs	
Housing		22 x 80			44 x 80	
Rated current (Iz) in amps	40	63	100	160	200
Rated insulation voltage (V) Number of live conductors		500 3 or 4			500 3 or 4	
R per phase in m	Ω/m (Ith)	2.14	1.36	0.91	0.40	0.31
L per phase in m	r phase in mΩ/m		0.097	0.064	0.051	0.047
Z per phase hot thermal in mΩ/n		2.14	1.36	0.91	0.40	0.32
Short circuit current capacity in ka	Peak	6.8	11	14	22	25
	RMS	1.5	2	2.5	5	6.5
Average weight	3 cond.	1.8	2	2.2	3.7	4
	4 cond.	1.9	2.2	2.5	4.2	4.5
Degrees of protection IP	without shuter	20			20	
	with shutter	51			30	51

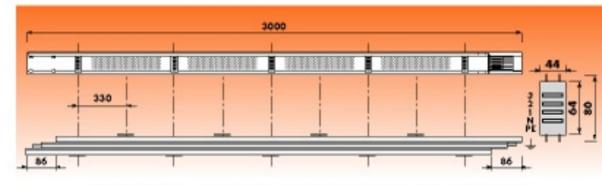




Straight Units

- The main element for power transfer and distribution in BX busducts, the straight units, are available in standard lengths of 0.33, 1, 2 and 3 meters.
- Busduct conductors are 4 copper bars, 3 phase plus null (3P+N), suitably insulated.
- Housing is made from 0.8 hot dip galvanized steel which is also used as

- suitable conductor for earth system according to NFC 15100 standard.
- Housing cover ensures high impact level as well as electrical continuity at tap-off points and other locations of element connections.
- Tap-off points for 40 to 100 amps busducts are provided on both sides at 66cm spacings (33cm spacings available on request). For 160 to 200 amps busducts, tap-off spacings are provided at 33cm.

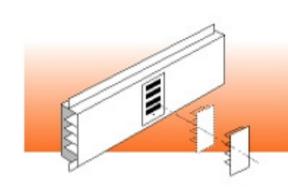


Openings are provided in the 200 amp busduct to ensure good ventilation

0

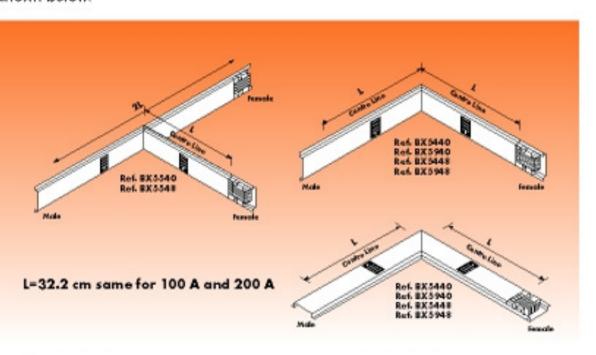
Tap-Off Point Shutter

Protection degree is IP 20 in general but if tap-off shutter is used to cover the tap-off window, it will rise the protection degree to IP 51.



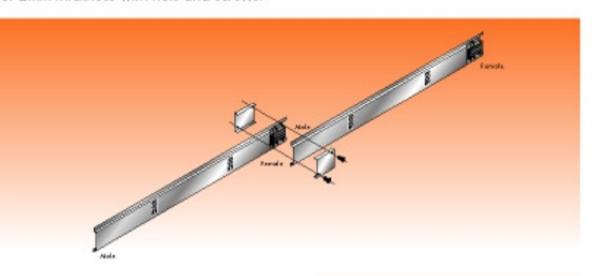
Special Units

Sidewise and flatwise elbows as well as "T" units are supplied in dimensions shown below. Other special units are supplied on order.



Mechanical connections

Two busduct units are mechanically connected by means of two galvanized steel sleeves of 2mm thickness with nuts and screws.



End Piece

End pieces are used to close the busduct's line.



