Underfloor Busbar

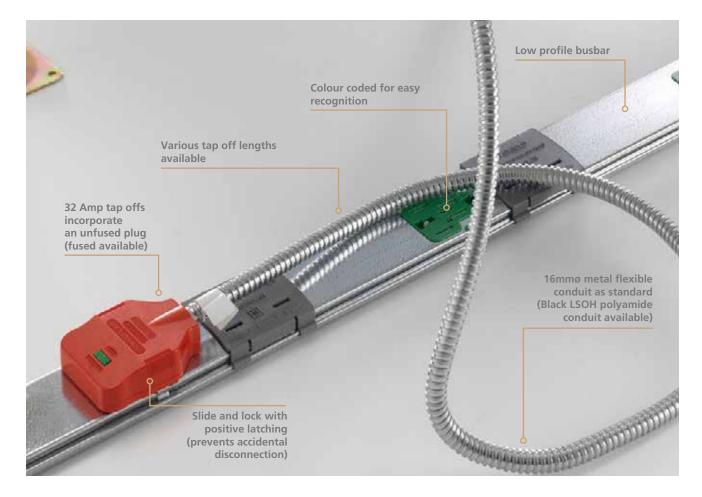


Betatrak® Underfloor Busbar

Busbars offer an efficient, flexible solution to underfloor power distribution as they use a click fit method for that fast and simple install. To reduce up front labour costs all busbars are tested at our manufacturing facilities meaning no onsite commissioning. Underfloor power solutions are also very low maintenance and exceptionally reliable making it the perfect solution in today's modern construction world.

The benefits of using an Underfloor Power Distribution System

- Choice: a comprehensive range of supply systems
- Flexibility: can be used in new or existing layouts
- Versatility: all kinds of configurations are possible including bends/corners
- Safety: colour coded tap offs for easy recognition. Sliding dust covers to protect outlets
- Height clearance: low profile busbar suitable for shallow floor voids
- Convenience: variety of Betatrak® lengths with different socket centres. 300mm standard (150mm and 600mm available on request)



Due to transport restrictions 3.6m length busbars have a minimum order requirement of 10 lengths. Orders of less than 10 units will be supplied as 2x 1.8m lengths per 3.6m length ordered.





The 63 Amp Betatrak® System caters for single phase standard, clean earth (CE) low noise, auxiliary, three phase or dual applications. Betatrak® comes in lengths of 1.2m, 1.8m, 2.4m or 3.6m with tap off positions provided at 300mm as standard (Note: 150mm and 600mm available on request). As a result, the system is extremely versatile and suitable for high to low density tap off requirements.

All integral connectors and tap off plug sockets are colour coded to avoid any possible errors during assembly. For maximum safety each operates a shutter on insertion to ensure no accidental contact can be made.

Installation

Betatrak® used within raised access floors is normally arranged in parallel runs with the feed units to the Betatrak® orientated towards the incoming supply. This offers an economic format inherent in long straight runs. Spacing should be a maximum of 5 metres between each length of track and 2.5 metres from the perimeter when using a standard 3 metre tap off to a floor box.

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Attention should be given to the total power requirements to avoid exceeding the maximum power rating of the Busbar.

The following versions are available for both Busbar and Tap Offs:

- Standard Earth
- Clean Earth (CE) Low Noise Earth
- Auxiliary Earth
- Dual Circuit
- Three Phase

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		9	🗪 Standard	Clean Earth (CE) (Low Noise Earth)	Auxiliary	Dual Circuit	3 Phase
	8 . F		White 63 Amp	Red 63 Amp	Black 63 Amp	Green 63 Amp	Blue 63 Amp
Length	No of Sockets	Centres (mm)					
3.6m	12	300	PBST3336	PBCT4336	PBAT3336	PBDT6336	PBTT5336
2.4m	8	300	PBST3324	PBCT4324	PBAT3324	PBDT6324	PBTT5324
1.8m	6	300	PBST3318	PBCT4318	PBAT3318	PBDT6318	PBTT5318
1.2m	4	300	PBST3312	PBCT4312	PBAT3312	PBDT6312	PBTT5312
Feed Unit			PBSF3010/SM	PBCF4010/SM	PBAF3010/SM	PBDF6010	PBTF5010
Flexible Corne	•	1m	PBSB3031H/SM	PBCB4031H/SM	PBAB3031H/SM	PBDB6031H	PBTB5031H
4	E	2m	PBSB3032H/SM	PBCB4032H/SM	PBAB3032H/SM	PBDB6032H	PBTB5032H
Flexible Corne	r Kit		PBSB3000/SM	PBCB4000/SM	PBAB3000/SM	PBDB6000	PBTB5000

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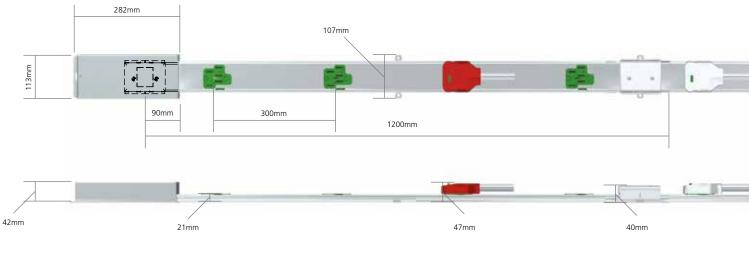


How to install the Busbar

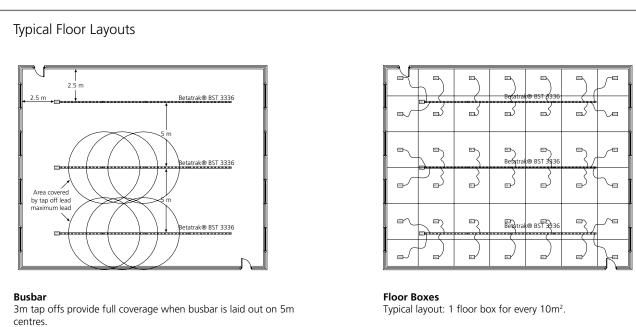
Starting with the feed unit, remove the dust cover over the colour coded socket and simply snap the integral coupler, pre-installed on the busbar, into the feed socket. The next length of track is then fitted to the socket end of the first length of busbar as previously described, this is then repeated for the following lengths until the run is complete. On the final length of busbar section the dust cover supplied is fitted on the final unused coupling point to protect against the ingress of foreign contaminants. The feed unit is then secured via the slots in the base and the busbar every 1200mm (max) by using the mounting brackets provided.

CMD is registered by BSI to BS EN ISO 9001 and BS EN ISO 14001. Betatrak® is designed to comply with regulation 434.2 of BS 7671: 2008 Amd 3 (IEE Wiring Regulations) and 543.7 earthing requirements for the installation of equipment having high protective conductor currents.

The scope of Reg. 543.7.1.3 requires that every final circuit is intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. in normal use, shall have a high protective connection.







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Electrical Characteristics								
Rated Current					63	Amps		
Rated Voltage					240/415	Volts		
Frequency					50	Hz		
Conditional Short Circuit Bating			EC 60269/BS88	Fuse	16	KA		
Max withstand current	and IEC 60898 MCB)				10 kA Peak			
Short time withstand current					1200A for 0.4 Sec			
	Busbars				3.2	mV/A/m		
	eed Unit				0.4	mV/A		
					0.4	mV/A/m		
	Frack Cou	onnection			0.5			
	iap on Co ⊦4mm² C				11.00	mV/A		
	+4mm ² C	able				mV/A/m		
					18.00	mV/A/m		
		orner Unit			3.6	mV/A		
		Cable (1.2			4.7	mV/A/m		
		rth (Housi	ng)		3.0	mΩ/m		
	ine to Ea				3.2	mΩ/m		
		rth (Bar +	Housing)		2.5	mΩ/m		
	eed Unit				0.8	mΩ		
	Frack Cou	•			0.6	mΩ		
		onnection			0.6	mΩ		
	+4m² Cab				11.0	mΩ/m		
		and 4mm			14.5	mΩ/m		
		orner Unit			4.0	mΩ		
	⊦10mm² (Cable			4.7	mΩ/m		
Mechanical Data								
Number of Copper Conductors			2, 3, or 5	2				
Busbar Cross-section Area					14	mm ²		
Betatrak® Basing Copper Equivalent (Where casing		14	mm ²					
Cable Termination Capacity			16	mm ²				
Tap off Cable 32Amp (BS 7211)					4.0	mm ²		
Tap off Cable 13Amp fused (BS 7211)				2.5	mm ²			
Tap off Conduit Sizes					Ø16 or Ø20	mm		
Flexible Corner Unit Cable (BS 7211)					10	mm ²		
Flexible Interlink Conduit					Ø25	mm		
Feed Conduit Entry					1 or 2 x Ø25	mm		
IP Rating BS EN 60529					4X			
Minimum void depth (track + tap off)					47 (59*)	mm		
Material Specification								
	Galvanise							
	ligh Con							
			ardant Polycarbonate					
Feed Unit Terminals B								
	ycarbonate							
Tap off Shutter P								
Tap off Plug Ins B								
Tap off Cable L								
	Tri Rated I	BS 6231						
Ambient Temperature Control Factors								
•	25C	30C	35C		40C	50C		
Factor 1	1.13	1.07	1.0		0.93	0.75		

*Allowance for plug pins.

Betatrak products have been independently tested to fully comply with BS EN 61534 and IEC 61534 2014 for Underfloor Powertrack Systems.