

# DAVIS®

*Always Ahead™*

## Bustrack (Powertrack) 40A & 63A & 80A

IEC CE BS



KEMA



DEKRA

# Technical Specifications

## BUSTRACK

Davis Bustrack is designed to comply with IEC 61439-1 : 2011 & IEC 61439-6 : 2012

## CURRENT RATING

40Amp, 240/415V, 50/60 Hz three-phase  
 63Amp, 240/415V, 50/60 Hz three-phase  
 80Amp, 240/415V, 50/60 Hz three-phase

## SHORT CIRCUIT RATING

The short circuit protection is provided by fuselinks Fuse BS 88, 100 Amp Fuse or 100 Amp MCCB.

Prospective current	16kA
Mechanical withstand	10kA peak
Thermal withstand	1200A 0.4 seconds

## EARTH FAULT LOOP IMPEDANCE

The IEE wiring regulations require that the total earth loop impedance of any circuit must be low enough to ensure that the protective device will operate within the time specified. The earth fault loop impedance for Davis Bustrack System are as follow:-

Phase Busbar	1.30mΩ/m
Earth Busbar & Housing	0.80 mΩ/m
Track Connector	0.80 mΩ
Cable Feed Unit	0.90 mΩ
32A Tap-Off (4mm <sup>2</sup> x 3m), Line & Earth	30.0 mΩ

## CORNER UNITS

	40A	63A	80A
Flexible corner cable size (mm <sup>2</sup> )	10	16	25
Corner unit length	1.3 meters		

## DEGREE OF PROTECTION

Bustrack	IP 42
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## VOLTAGE DROP

Busbar L, N & E	2.6 mV/A/m
Track Connector	0.8 mV/A
Cable Feed Unit	0.9 mV/A
32A Tap-Off (4mm <sup>2</sup> Cable), L, N & E	5.4 mV/A/m

## EARTH BONDING

The earth conductor is connected directly to the track housing at both ends of the earth bar.

## CONSTRUCTION SPECIFICATIONS

Track Housing	Galvanized Steel
Fixing Bracket	Galvanized Steel
Cable Feed Unit	Galvanized Steel
Busbar	99.9% high conductivity Copper (1.5x10mm)
Insulator	Polybutylene terephthalate (PBT)
Tap-Off	Polyamide (PA)
Shutter	Polybutylene terephthalate (PBT)
Tap-Off Flexible Conduit	Galvanized conduit steel & PVC insulated

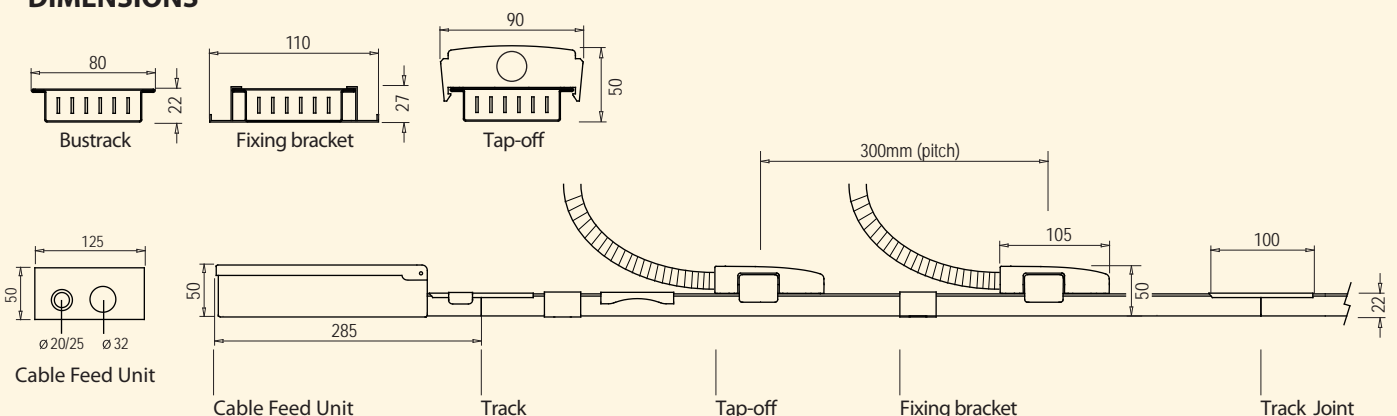
## TAP-OFF UNITS

The 32A tap-off unit is normally unfused with 3 metres of 4mm<sup>2</sup> cable in galvanised flexible conduit steel with PVC insulation. 13A fused tap-off units are also available.

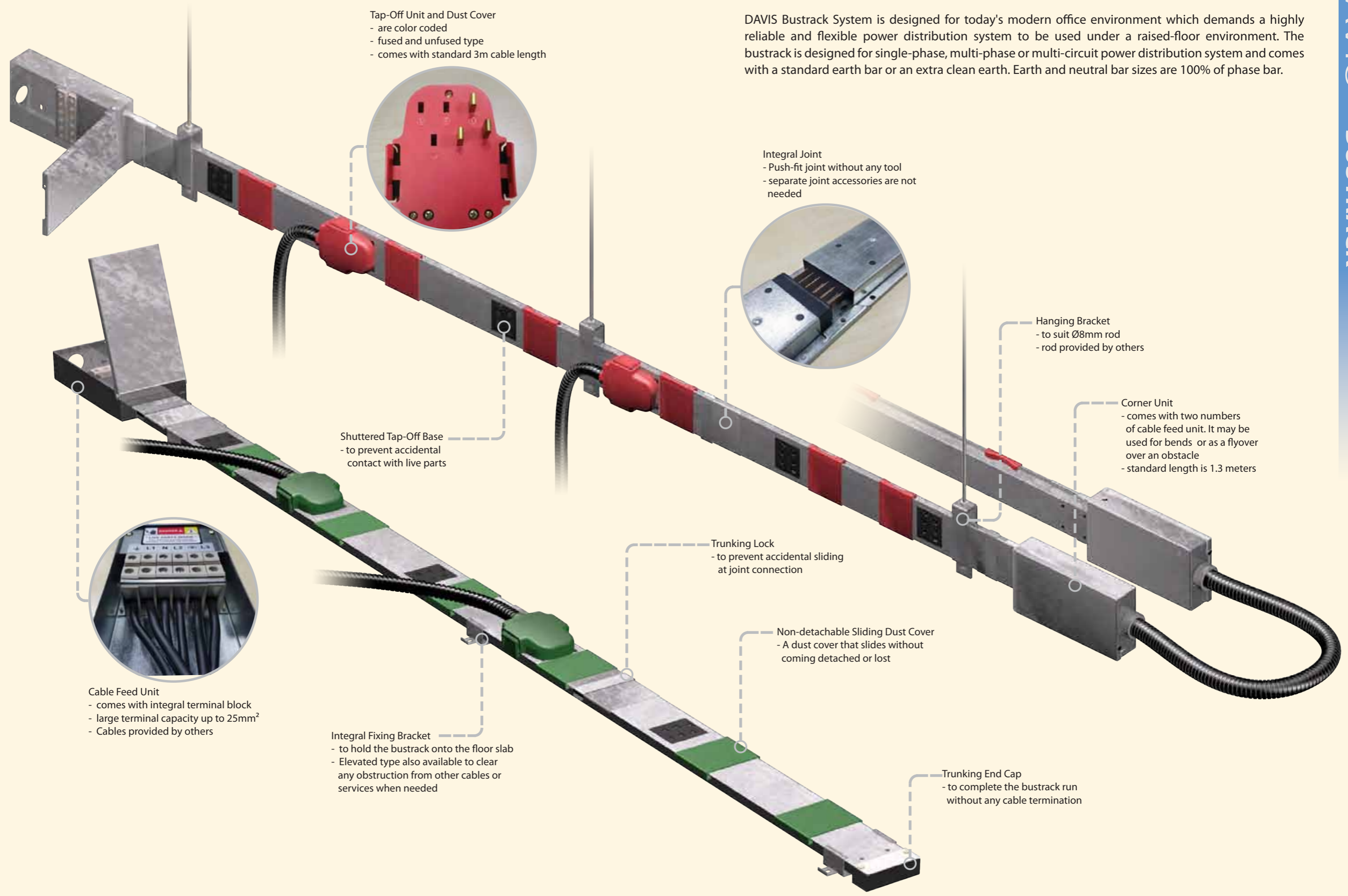
## CABLE CAPACITY OF TERMINALS

Cable Feed Unit	25mm <sup>2</sup>
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## DIMENSIONS



All dimensions are in millimeters.



Tap-Off Unit and Dust Cover  
 - are color coded  
 - fused and unfused type  
 - comes with standard 3m cable length

DAVIS BUSTRACK System is designed for today's modern office environment which demands a highly reliable and flexible power distribution system to be used under a raised-floor environment. The bustrack is designed for single-phase, multi-phase or multi-circuit power distribution system and comes with a standard earth bar or an extra clean earth. Earth and neutral bar sizes are 100% of phase bar.

Integral Joint  
 - Push-fit joint without any tool  
 - separate joint accessories are not needed

Hanging Bracket  
 - to suit Ø8mm rod  
 - rod provided by others

Corner Unit  
 - comes with two numbers of cable feed unit. It may be used for bends or as a flyover over an obstacle  
 - standard length is 1.3 meters

Shuttered Tap-Off Base  
 - to prevent accidental contact with live parts

Trunking Lock  
 - to prevent accidental sliding at joint connection

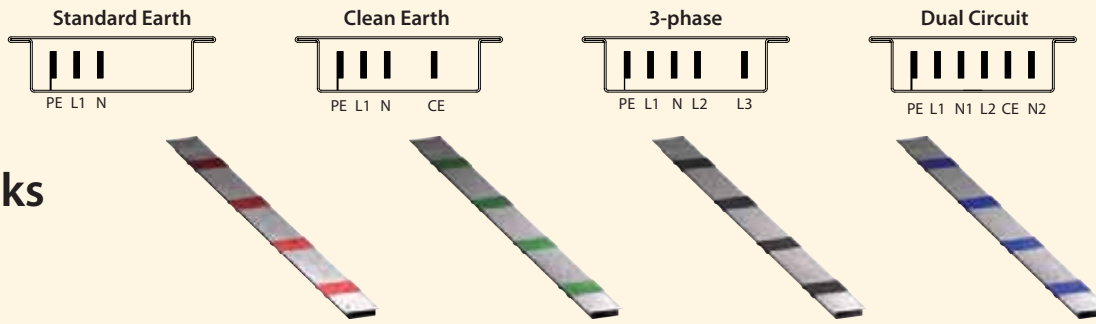
Non-detachable Sliding Dust Cover  
 - A dust cover that slides without coming detached or lost

Integral Fixing Bracket  
 - to hold the bustrack onto the floor slab  
 - Elevated type also available to clear any obstruction from other cables or services when needed

Trunking End Cap  
 - to complete the bustrack run without any cable termination

Cable Feed Unit  
 - comes with integral terminal block  
 - large terminal capacity up to 25mm<sup>2</sup>  
 - Cables provided by others

DAVIS BUSTRACK is rated at 40A, 63A & 80A single-phase or three-phase with standard tap-offs at intervals of 300mm pitch. The bustrack sockets are fully shuttered and each comes with a dust proof cover and a positive locking device to ensure that the plug is in full electrical contact when pushed in.



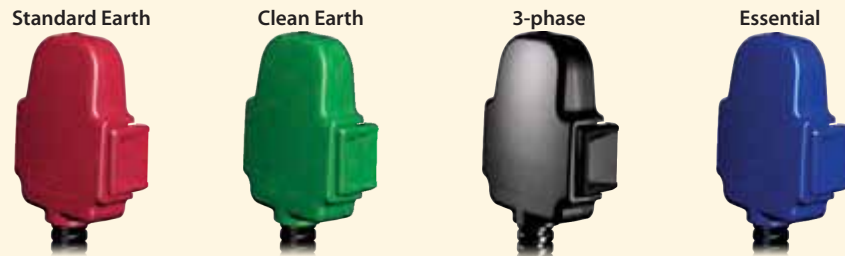
## Tracks

Current Rating	Track Length	No. of Tap-offs	3 bars-240V Standard Earth (RED)	4 bars-240V Clean Earth (GREEN)	5 bars-415V 3-phase (BLACK)	6 bars-240V Dual Circuit (BLUE)
40A	0.6m	2	SFBT6-3-40-0.6	SFBT6-4-40-0.6	SFBT6-5-40-0.6	SFBT6-6-40-0.6
40A	1.2m	4	SFBT6-3-40-1.2	SFBT6-4-40-1.2	SFBT6-5-40-1.2	SFBT6-6-40-1.2
40A	2.4m	8	SFBT6-3-40-2.4	SFBT6-4-40-2.4	SFBT6-5-40-2.4	SFBT6-6-40-2.4
63A	0.6m	2	SFBT6-3-63-0.6	SFBT6-4-63-0.6	SFBT6-5-63-0.6	SFBT6-6-63-0.6
63A	1.2m	4	SFBT6-3-63-1.2	SFBT6-4-63-1.2	SFBT6-5-63-1.2	SFBT6-6-63-1.2
63A	2.4m	8	SFBT6-3-63-2.4	SFBT6-4-63-2.4	SFBT6-5-63-2.4	SFBT6-6-63-2.4
80A	0.6m	2	SFBT6-3-80-0.6	SFBT6-4-80-0.6	SFBT6-5-80-0.6	SFBT6-6-80-0.6
80A	1.2m	4	SFBT6-3-80-1.2	SFBT6-4-80-1.2	SFBT6-5-80-1.2	SFBT6-6-80-1.2
80A	2.4m	8	SFBT6-3-80-2.4	SFBT6-4-80-2.4	SFBT6-5-80-2.4	SFBT6-6-80-2.4

\*Earth and neutral bar sizes are 100% of phase bar. Tap-off interval is 300mm. Other intervals are also available.

The tap-off unit comprises of a 32A unfused tap-off plug fitted with a 3m length 4mm<sup>2</sup> (Unfused) and 2.5mm<sup>2</sup> (Fused) cable enclosed in a 16mm flexible conduit. Colour coded plugs and dust covers are used to differentiate between standard earth system (Red), clean earth system (Green), normal 3-phase system (Black) and essential (Blue).

## Tap-off Units



Current Rating	Protection	Cable Length	3 pins-240V Standard Earth (RED)	4 pins-240V Clean Earth (GREEN)	5 pins-415V 3-phase (BLACK)	3 pins-240V Essential (BLUE)
32A	Unfused	3m	SFBT6-3-32-TO	SFBT6-4-32-TO	SFBT6-5-32-TO	SFBT6-3-32-TO-E
13A	Fused	3m	SFBT6-3-13-TO-F	SFBT6-4-13-TO-F	SFBT6-5-13-TO-F	SFBT6-3-13-TO-E-F

\*Standard cable length is 3 meters. Other lengths are also available.

\*6 pins tap-off is also available.

## Cable Feed Units

A flexible oversized cable feed unit is designed to ease the termination of cables feeding the bustrack system. Each unit comes with a trunking lock device for additional security.

Type	Product Code		
	40A	63A	80A
Standard Earth	SFBT6-3-40-FU	SFBT6-3-63-FU	SFBT6-3-80-FU
Clean Earth	SFBT6-4-40-FU	SFBT6-4-63-FU	SFBT6-4-80-FU
3-phase	SFBT6-5-40-FU	SFBT6-5-63-FU	SFBT6-5-80-FU
Dual Circuit	SFBT6-6-40-FU	SFBT6-6-63-FU	SFBT6-6-80-FU

## Corner Units

A corner unit comes with two numbers of cable feed unit. It may be used for bends or as a flyover over an obstacle.



Type	Product Code		
	40A	63A	80A
Standard Earth	SFBT6-3-40-CU	SFBT6-3-63-CU	SFBT6-3-80-CU
Clean Earth	SFBT6-4-40-CU	SFBT6-4-63-CU	SFBT6-4-80-CU
3-phase	SFBT6-5-40-CU	SFBT6-5-63-CU	SFBT6-5-80-CU
Dual Circuit	SFBT6-6-40-CU	SFBT6-6-63-CU	SFBT6-6-80-CU

\*Standard Corner Unit length is 1.3meters.

## Other Accessories



SFBT6-FB



SFBT6-HB

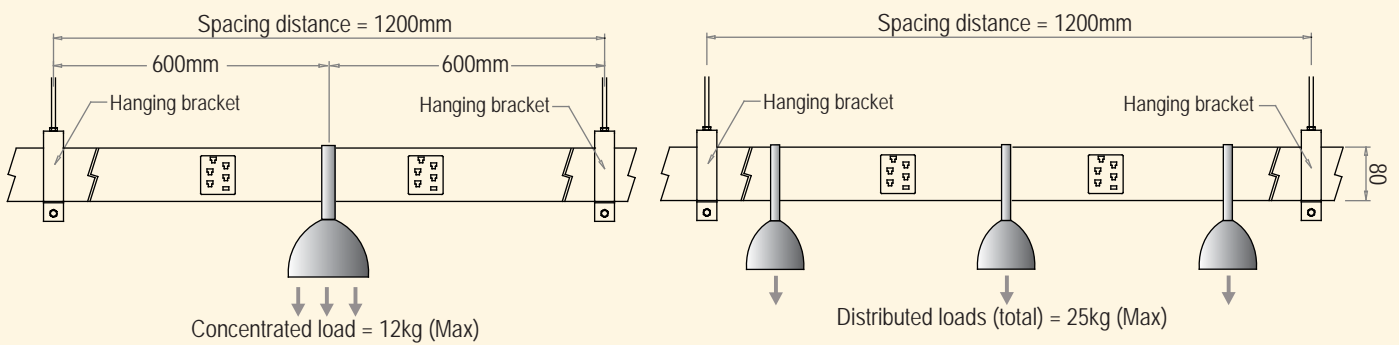


SFBT6-TC

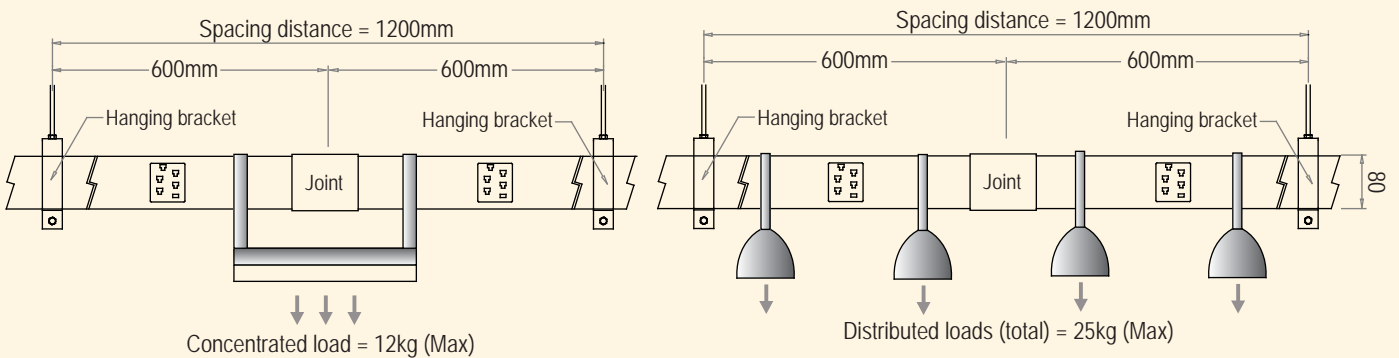
Product Code	Description
SFBT6-FB	Under the raised floor Fixing bracket (Track length 2.4m = 3nos, 1.2m = 1no, 0.6m = 1no)
SFBT6-TC	Trunking end cap
SFBT6-HB	Hanging bracket

## Hanging Bracket

### Case 1 : Hanging brackets spacing away from joint



### Case 2 : Hanging brackets spacing at joint



#### \*Notes

Load suspensions are for edgewise mounted track only. Load suspensions are not advisable for flatwise mounted track.

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