

COMPACT  
SHROUDED  
CONDUCTOR  
SYSTEM

# SafeTrack

## **SafeTrack**

**SafeTrack** insulated conductors are designed in accordance to international regulations for multitude of power supply applications.

These conductors are compact, insulated, easy to install, in horizontal or vertical configuration. They require much less space compared to conventional bare conductor systems.

The conductor bars are 4 metres long to be supported at every 1 metre, effecting considerable savings in installation. Conductors are easily assembled at site with the use of a jointing tool. All bars are supplied with connecting pins.

Design allows uni/multi pole mounting arrangement. Conductors can be mounted side by side min. centre distance 30 mm.

Factory made curved conductors available.

Galvanised iron conductor - rated 100A / 125A  
Copper conductor - rated 250A / 315A  
S.S. conductor - rated 40A

### **MOUNTING**

Insulated hanger clamps support conductor. Standard mounting brackets available or designed for specific requirement.

The conductor can be mounted horizontally or vertically.

No minimum clearance required with other structures.

### **FEED TERMINALS**

The power feed point can be at the ends or anywhere along the run. One or more power feed point positions possible to reduce voltage drop.

Feed terminal clamps should preferably be installed at rail joints.

### **END CAPS**

The open ends/end feeds of conductors are covered by end caps.

## **COLLECTOR**

A fully articulated sliding type collector assembled from strong, purpose designed, glass filled nylon moulding. This design produces compact unit fully insulated from the support bracket.

S.S. spring ensures adequate contact pressure.

### **EXPANSION JOINTS**

In order to accomodate the effects of temperature change, it is necessary to provide expansion joints, where system run exceeds 200M - G.I and 150 M-copper.

### **INSTALLATION**

**SafeTrack** can be installed in most type of atmospheres such as dirty, dusty, acidic, chemical etc.

No crane gantry is perfectly free or level, **SafeTrack** acknowledges this fact by designing adequate lateral/vertical tolerances on collector.

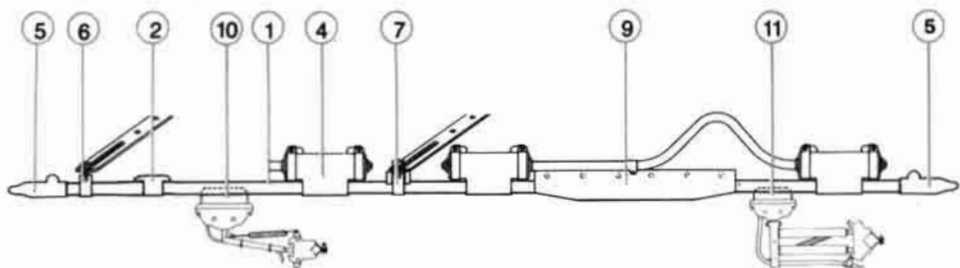
Suitable for outdoor applications also.

### **MAINT. COST**

Only consumable item is contact shoe. No periodic maintenance required.

### **ADVANTAGES OVER ANGLE IRON CONDUCTOR SYSTEM**

1. It is insulated.
2. It is finger safe.
3. It is accident free.
4. It is colour coded R Y B G.
5. No protection guard required.
6. It is compact occupies less space.
7. No sparking - spring loaded current collector provide pressurised electrical contact.
8. It is better resistant to atmospheric conditions. For severe conditions S. S. conductor available.



Collector and conductor support brackets are available

- 1. Bar, Cover and pin assembly - 4M long** 1.5 / 100A Rolled G.I.  
Conductor assembly  
250A-Rolled Cu-  
conductor assembly,  
40A Rolled S.S.  
Conductor assembly  
Max. Working temp. 80°C
- 
- No. 101

- 2. Splice cover** Moulded plastic one piece clip-on cover
- 
- No. 102

- 3. Crimping tool** For copper conductors only
- 
- No. 103

- 4. Centre power feed kit** Kit comprising power feed clamp, fixing nuts and bolts and insulating cover.
- 
- No. 104

- 5. End cap** Kit comprising stop bolt and PVC push-on insulating cover.
- 
- No. 105

- 6. Hanger clamp** Plastic moulded snap-on type support.
- 
- No. 106

- 7. Anchor clamp** Plastic moulded snap-on type with self anchoring feature. For use at anchor points.
- 
- No. 107

- 8. Jointing tool** Special assembly tool required to connect bars on site.
- 
- No. 108

- 9. Expansion assembly** Complete factory assembled unit of 2 metres overall length.
- 
- No. 109

- 10. 125A S type collector** For use with hoist applications. Straight runs only
- 
- COLLECTOR MOVEMENT  
VERTICAL ± 20mm  
LATERAL ± 20mm
- No. 110

- 11. 125A D type collector** For use on straight/curved systems
- 
- COLLECTOR MOVEMENT  
VERTICAL ± 20mm  
LATERAL ± 20mm
- No. 111

- Technical data**  
Conductor spacing: Indoor 30mm min. / Outdoor 40mm min.  
For working temperatures exceeding 80°C consult our technical department  
NOTE :- Tandem collectors are required when expansion sections are fitted.

COMPACT  
SHROUDED  
CONDUCTOR  
SYSTEM

# Safetrack

## ***SAFE COMPACT MOBILE CONDUCTOR SYSTEM APPLICATIONS***

- E.O.T. Cranes St./curved*
- Monorail Hoists St./curved*
- Transfer cars*
- Electric trolleys*
- Bus trunkings*
- Amusement Parks*

## ***ONLY ADVANTAGES - NO DISADVANTAGE***



### ***Susheel Engineering Corporation***

D-7, Ghatkopar Industrial Estate, Off L.B.S. Marg  
Ghatkopar (West) MUMBAI - 400 086 India  
Tel. 91 22 67988642 / 67969715 / 25007976 Fax 25008039  
Email safetrack@vsnl.com / vishu@bom2.vsnl.net.in