DEUS RRC PVT. LTD.

Leading manufacturer of SNT Radio Remote Control Systems & other Crane Control Equipments.

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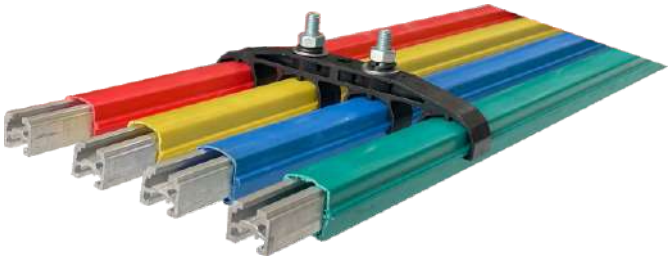
DEUS - SNT SAFELINK - W Type DSL

Galvanised Steel / Copper

Aluminium

Introduction

DEUS - SNT Safelink W Type insulated conductor bus bar system are used for power transmission. Current Capacity ranges from 60 Amps. to 400 Amps rated at 100% duty cycle & nominal voltage upto 600 V. They fulfill the requirements of latest international standards. All are safe to touch and designed finger-proof. Conductor rail provide a safe and economical supply of electrical



FEATURES

- Quick & easy Installation.
- Collector Shoes track Accurately on V Contact Bar.
- Bolted Joint.
- Insulating cover shaped to shed from water and dust & Finger Safe.
- 60 to 400Amps. conductor in same size.
- Requires fewer joints and expansion joints.
- Track Configuration : Straight or Curved.
- Suitable for Indoor / Outdoor Installation

Technical Date SLB-Bolted Joint Conductor Bar System

	Galvanized			Copper			Aluminum / Stainless Steel		
Type	BG	BG	BG	BC	BC	BC	BA	BA	BA
Nominal Current	60A	100A	125A	160A	250A	400A	200A	315A	400A
Maximum System Voltage AC or DC	600V	600V	600V	600V	600V	600V	600V	600V	600V
Resis t ance R (F or DC) At 35℃ (Ω /m)	0.00358	0.00286	0.00193	0.00034	0.00027	0.00018	0.00030	0.00026	0.000199
Impedance Z (F or DC) At 35℃ (Ω /m)	0.00360	0.00289	0.00196	0.00036	0.00030	0.00022	0.00032	0.00028	0.00023
Bar Length	4.5m	4.5m	4.5m	4.5m	4.5m	4.5m	4.5m	4.5m	4.5m
Support Pit ch Standard	1250mm			1250mm			1250mm		
Min Pitch Center Standard	43mm	43mm	43mm	43mm	43mm	43mm	43mm	43mm	43mm

	Standard (Red,Yellow.Blue & Green)	Medium (Heat)
Temperature	(160°F (71.1°C)	(250°F (121.1°C)
Material	PVC	Polycarbonate
Dielectric Strength	180Kv/cm	240Kv/cm
Flame Test	Self extinguishing	Self extinguishing

Note :- Expansion Section 150m.
Minimum Bending Radius 1.5m.

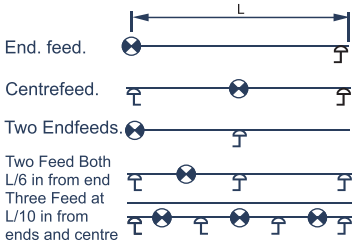
TECHNICAL PARAMETER COMMON TO ALL

Current capacity factor for different ambient temperature

Arnbient temperature			35°C	40°C	45°C	50°C	55°c	60oe	65°C	70°C	75°C	80°C	85°C
Standard Insulation	Aluminium rail	fA	1.0	0.92	0.81	0.76	0.68						
	Copper rail		1.0	0.93	0.87	0.82	0.78						
High Temperature Insulatlon	Aluminium rail	fA					1.0	0.92	0.81	0.76	0.68	0.63	0.59
	Copper rail						1.0	0.93	0.87	0.82	0.78	0.7·4	0.72

Selection of feed-in points :The feed-in point for every application must be selected because the length rail end is used for calculating the voltage drop.

feed-in points can normally be used.



Voltage Drop

The allowable volt drop determines, the maximum allowable resistance of conductor. The value of volt drop within a conductor system is effected by effective length of system and current grawn.

Volt Drop Calcultion

For A. C. Machine 3 phase

$\triangle U$ Volt drop =length (D) x Impedance (Z) X Current (I) X $3\sqrt{}$

$U\% = \frac{\triangle U}{U n} X\ 100\ [\%)]$