



Susheel Engineering Corpn

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SafeTrack 2 SHROUDED CONDUCTOR TECHNICAL DATA SHEET								
	SF2-60A	SF2-100A	SF2-125A	SF2-160A	SF2-250A	SF2-400A	SF2-200A	SF2-315A
Material	Galvanised Steel			Copper			Aluminium with SS	
Cross Sectional Area (Thickness)	53 (0.8)	66 (1.0)	100(1.6)	53 (0.8)	66 (1.0)	100(1.6)	104	120
Impedence milli Ohms/M +35 °C	3.55	2.86	1.92	0.36	0.30	0.22	0.32	0.29
DC Resistance milli Ohms/M +35 °C	3.52	2.84	1.92	0.35	0.27	0.18	0.30	0.26
Co eff. Of Expansion / °C	1.26 x 10 ⁻⁵	1.26 x 10 ⁻⁵	1.26 x 10 ⁻⁵	1.62 x 10 ⁻⁵	1.62 x 10 ⁻⁵	1.62 x 10 ⁻⁵	2.38 x 10 ⁻⁵	2.38 x 10 ⁻⁵
Conductor Rating At +35 °C CDF 100%	60A	100A	125A	160A	250A	400A	200	315
80%	68A	112A	139A	180A	280A	445A	222	348
60%	80A	130A	162A	210A	325A	520A	258	405
40%	97A	160A	200A	255A	400A	635A	316	496
Conductor Rating at 100% CDF At +35 °C	60A	100A	125A	160A	250A	400A	200	315
+40 °C	58A	97A	121A	149A	233A	372A	184	290
+45 °C	56A	94A	117A	140A	218A	348A	162	255
+50 °C	54A	91A	113A	131A	205A	328A	152	240
+55 °C	52A	88A	110A	125A	195A	312A	136	215
Standard Conductor Length	4.5 Mtrs			4.5 Mtrs			4.5 Mtrs	
Track Configuration straight / curved Bending radius minimum Horizontal	1500 mm (Horz.only)			1500 mm (Horz.only)			N.A	
Conductor Joint	Bolted Type			Bolted Type			Bolted Type	
INSULATION								
Standard Insulation	PVC			PVC			PVC	
System working Temperature*	80 °C			80 °C			80 °C	
Flame Test	Self Extinguishing			Self Extinguishing			Self Extinguishing	
Insulation Cover	RYBG			RYBG			RYBG	
Protection Class (Finger Safe)	IP21			IP21			IP21	
Maximum System Voltage	500V AC / 600V DC			500V AC / 600V DC			500VAC / 600V DC	
High Voltage withstand For 1min Flashover Test	2.5KV / 7.5KV			2.5KV / 7.5KV			2.5KV / 7.5KV	
INSTALLATION								
Support Pitch Standard	1000 mm			1000 mm			1000 mm	
Lateral	1000 mm			1000 mm			1000 mm	
On curved path	500 mm			500 mm			500 mm	
Hanger Clamps	1pole / 4pole			1pole / 4pole			1pole / 4pole	
Minimum Pitch Centre 4P HC Fixed	43 mm			43 mm			43 mm	
1P HC	40 mm min			40 mm min			40 mm min	
Max distance between Anchor points	75 Mtrs			75 Mtrs			75 Mtrs	
Power Feeding	At joint or at any location			At joint or at any location			At joint or at any location	
Expansion section required for bay lengths more than	150 Mtrs			150 Mtrs			150 Mtrs	
Installation suitable for	Indoor / outdoor			Indoor / outdoor			Indoor / outdoor	
OTHER ACCESSORIES								
Transfer Guides / Isolating Sections *High Temp. Sleeves For 120 °C	Available			Available			Available	
APPLICATIONS								
Shrouded DSL installations for EOT Cranes, Electric Hoists, Straight / Curved Monorails, Conveyors, Amusement Drives, Electric Trolleys, Transfer Cars, Automated storage systems, Material handling systems etc. Aluminium / SS Conductors for Corrosive atmosphere.								