

Safetrack
SHROUDED CONDUCTOR
TECHNICAL DATA SHEET

Safetrack 1

Safetrack 2



CONDUCTOR	SF1-40A	SF1-100A	SF1-125A	SF1-250A	SF1-315A	SF2-60A
Material	Stainless Steel	Galvanised Steel		Copper		
Cross Sectional Area (Thickness)	50.4 (1mm)	50.4 (1mm)	63 (1.2mm)	50.4 (1mm)	63 (1.2mm)	53 (0.8)
Impedance milli Ohms/M +35 °C	12.95	2.9	2.5	0.345	0.335	3.55
DC Resistance milli Ohms/M +35 °C	12.88	2.86	2.45	0.333	0.333	3.52
Co eff. Of Expansion / °C	1.8 x 10 ⁻⁵	1.26 x 10 ⁻⁵	1.26 x 10 ⁻⁵	1.62 x 10 ⁻⁵	1.62 x 10 ⁻⁵	1.26x10 ⁻⁵
Conductor Rating At +35 °C CDF 100%	40A	100A	125A	250A	315A	60A
80%	43A	112A	139A	280A	352A	68A
60%	46A	123A	152A	307A	385A	80A
40%	50A	135A	160A	315A	400A	97A
Conductor Rating at 100% CDF At +35 °C	40A	100A	125A	250A	315A	60A
+40 °C	40A	100A	125A	240A	300A	58A
+45 °C	38A	95A	115A	225A	280A	56A
+50 °C	35A	90A	110A	210A	260A	54A
+55 °C	32A	80A	100A	190A	240A	52A
Standard Conductor Length	4 Mtrs	4 Mtrs	4 Mtrs	4 Mtrs	4 Mtrs	4 Mtrs
Track Configuration straight / curved Bending radius minimum Horz/ Vert	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
Conductor Joint	PIN JOINT	PIN JOINT	PIN JOINT	PIN JOINT	PIN JOINT	PIN JOINT
Insulation						
Standard Insulation	PVC	PVC	PVC	PVC	PVC	PVC
System working Temperature ?	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C
Flame Test	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing
Insulation Cover	RYBG	RYBG	RYBG	RYBG	RYBG	RYBG
Protection Class (Finger Safe)	IP21	IP21	IP21	IP21	IP21	IP21
Maximum System Voltage	500VAC /600VDC	500V AC / 600V DC	500V AC / 600V DC	500V AC / 600V DC	500V AC / 600V DC	500V AC / 600V DC
High Voltage withstand For 1min Flashover Test	2.5KV / 7.5KV	2.5KV / 7.5KV	2.5KV / 7.5KV	2.5KV / 7.5KV	2.5KV / 7.5KV	2.5KV / 7.5KV
Installation						
Support Pitch Standard	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
Lateral	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
On curved path	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm
Hanger Clamps	1pole special	1pole / 4pole	1pole / 4pole	1pole / 4pole	1pole / 4pole	1pole / 4pole
Minimum Pitch Centre 4P HC Fixed	NA	43 mm	43 mm	43 mm	43 mm	43 mm
1P HC	50 mm	40 mm min	40 mm min	40 mm min	40 mm min	40 mm min
Max distance between Anchor points	75 Mtrs	75 Mtrs	75 Mtrs	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	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	200 Mtrs	150 Mtrs	150 Mtrs	150 Mtrs	150 Mtrs
In Expn Tandem Collectors Required	Yes	Yes	Yes	Yes	Yes	Yes
Site Crimping (Tool Supplied)	N.A	N.A	Required	Required	Required	Required
Installation suitable for	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor
Other Accessories						
Transfer Guides / Isolating Sections ?High Temp. Sleeves For 120 °C	Available	Available	Available	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. SS Conductors for Corrosive atmosphere.

Safetrack 2

Safetrack s



SF2-100A	SF2-125A	SF2-160A	SF2-250A	SF2-400A	SF2-200A	SF2-315A	SFS-35A	SFS-95A
Galvanised Steel			Copper		Aluminium with SS		Galvanised steel	Copper
65 (1.0)	97(1.6)	53 (0.8)	65 (1.0)	97(1.6)	104	120	25(0.8)	25(0.8)
2.86	1.92	0.36	0.30	0.22	0.32	0.29	5.55	0.75
2.84	1.92	0.35	0.27	0.18	0.30	0.26	5.45	0.745
1.26x10 ⁻⁵	1.26x10 ⁻⁵	1.62x10 ⁻⁵	1.62x10 ⁻⁵	1.62x10 ⁻⁵	2.38x10 ⁻⁵	2.38x10 ⁻⁵	1.26x10 ⁻⁵	1.62x10 ⁻⁵
100A	125A	160A	250A	400A	200	315	35A	95A
112A	139A	180A	280A	445A	222	348	39A	105A
130A	162A	210A	325A	520A	258	405	43A	120A
160A	200A	255A	400A	635A	316	496	47A	130A
100A	125A	160A	250A	400A	200	315	35A	95A
97A	121A	149A	233A	372A	184	290	35A	93A
94A	117A	140A	218A	348A	162	255	33A	85A
91A	113A	131A	205A	328A	152	240	31A	78A
88A	110A	125A	195A	312A	136	215	28A	70A
4.5 Mtrs			4.5 Mtrs		4.5 Mtrs		4 Mtrs	
1500 mm (Horz. only)			1500 mm (Horz. only)		N.A		600 mm	
Bolted Type			Bolted Type		Bolted Type		Snap-in joint splice clip	
PVC			PVC		PVC		PVC	
80 °C			80 °C		80 °C		80 °C	
Self Extinguishing			Self Extinguishing		Self Extinguishing		Self Extinguishing	
RYBG			RYBG		RYBG		RYBG	
IP21			IP21		IP21		IP21	
500V AC / 600V DC			500V AC / 600V DC		500VAC/600V DC		500V AC / 600V DC	
2.5KV / 7.5KV			2.5KV / 7.5KV		2.5KV / 7.5KV		2.5KV / 5.0 KV	
1500 mm			1500 mm		1500 mm		600 mm	
1125 mm			1125 mm		1125 mm		600 mm	
600 mm			600 mm		600 mm		300 mm	
1pole / 4pole			1pole / 4pole		1pole / 4pole		4P / 6P / 8P / 10P / 12P	
43 mm			43 mm		43 mm		Fixed 14 mm OR 20 mm	
40 mm min			40 mm min		40 mm min		NA	
75 Mtrs			75 Mtrs		75 Mtrs		36 Mtrs	
At joint or at any location			At joint or at any location		At joint or at any location		At Joint Or Any Location upto 50A At end 25A	
150 Mtrs			150 Mtrs		150 Mtrs		150 Mtrs	
No			No		No		No	
N.A			N.A		N.A		N.A	
Indoor / outdoor			Indoor / outdoor		Indoor / outdoor		Indoor	
Available			Available		Available		Available	

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.

Shrouded Conductor installations for Electric Hoists, EMS Systems Straight / Curved Monorails, Electric Trolleys, Transfer Cars, Automated storage systems, IN EOT Crane CT Appln etc