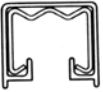
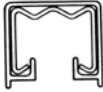
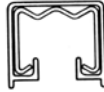


<b>Safetrack<sub>1</sub></b> SHROUDED CONDUCTOR TECHNICAL DATA SHEET						
<b>CONDUCTOR</b>		SF1-40A	SF1-100A	SF1-125A	SF1-250A	SF1-315A
Material		Stainless Steel	Galvanised Steel		Copper	
Cross Sectional Area (Thickness)		50.4 (1mm)	50.4 (1mm)	63 (1.2mm)	50.4 (1mm)	63 (1.2mm)
Impedence milli Ohms/M +35 °C		12.95	2.9	2.5	0.345	0.335
DC Resistance milli Ohms/M +35 °C		12.88	2.86	2.45	0.333	0.333
Co eff. Of Expansion / °C		1.8 x 10 <sup>-5</sup>	1.26 x 10 <sup>-5</sup>	1.26 x 10 <sup>-5</sup>	1.62 x 10 <sup>-5</sup>	1.62 x 10 <sup>-5</sup>
Conductor Rating At +35 °C CDF 100%		40A	100A	125A	250A	315A
		80%	112A	139A	280A	352A
		60%	123A	152A	307A	385A
		40%	135A	160A	315A	400A
Conductor Rating at 100% CDF At +35 °C		40A	100A	125A	250A	315A
		+40 °C	100A	125A	240A	300A
		+45 °C	95A	115A	225A	280A
		+50 °C	90A	110A	210A	260A
		+55 °C	80A	100A	190A	240A
Standard Conductor Length		4 Mtrs	4 Mtrs		4 Mtrs	
Track Configuration straight / curved Bending radius minimum Horz/ Vert		1000 mm	1000 mm		1000 mm	
Conductor Joint		PIN JOINT	PIN JOINT		PIN JOINT	
<b>INSULATION</b>						
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		500VAC 600VDC	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	
<b>INSTALLATION</b>						
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 special	1pole / 4pole		1pole / 4pole	
Minimum Pitch Centre 4P HC Fixed		NA	43 mm		43 mm	
1P HC		50 mm	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	200 Mtrs		150 Mtrs	
In Expn Tandem Collectors Required		Yes	Yes		Yes	
Site Crimping (Tool Supplied)		N.A	N.A		Required	
Installation suitable for		Indoor / outdoor	Indoor / outdoor		Indoor / outdoor	
<b>OTHER ACCESSORIES</b>						
Transfer Guides / Isolating Sections		Available	Available		Available	
*High Temp. Sleeves For 120 °C						
<b>APPLICATIONS</b>		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.				