

FlexiStrap Data Sheet

FlexiStrap intermediate short circuit straps are available for cable applications where the highest levels of short circuit withstand are required. The unique patented design allows rapid installation **UK Patent applied for: GB 1000963.7**. All components are manufactured from 316L stainless steel, which offers the ultimate protection against the harshest environmental conditions. The strap is tightened and locked using a 1/4" drive ratchet handle, a propriety tool provided by Ellis Patents, and a standard 10mm spanner. The option of including an integral liner in 'Zero-Halogen, Low Smoke & Fume' (LSF) polymer, is available. (MDS01 Data Sheet is available on request).

FlexiStrap Intermediate short circuit straps are manufactured to specific cable diameters and bundle contents. Dimensional data is available on request from Ellis Patents



Testing Information

FlexiStrap Intermediate short circuit straps have been tested in line with the IEC Standard of 'Cable Cleats for Electrical Installations' IEC 61914:2009. Typical results are detailed below:

Properties	IEC 61914:2009 Classification Clause	Units / Classification	Test Data
Cleat Type	6.1, 6.1.3	Composite	-
Impact Resistance	6.3, 6.3.5, 9.2	Very Heavy Classification (5.0kg @ 400mm)	Pass
Resistance to Electro Mechanical Force (Undertaken at Damstra Laboratories NL)	6.4, 6.4.3, 9.5	* SD - LINERED VERSION ONLY * Ellis Patents cleats fastened at 1200mm centres with FlexiStraps as intermediate short circuit straps. Withstanding more than one short circuit	105kA (Peak) (Report No. PDL-10.080.1)
		* HD - LINERED VERSION ONLY * FlexiStraps at 600mm centres, cleated at the end conditions only. Withstanding more than one short circuit	157kA (Peak) (Report No. PDL-14.076.2)
Temperature for Permanent Application	6.2	°C	-40 to 60
Needle Flame	10.0, 10.1	Application Time (seconds)	>120
Lateral Load Test	9.3	Newtons (N)	Refer to Ellis Patents
Axial Load Test	9.4	Newtons (N)	Refer to Ellis Patents

Standard Duty (Suitable for use with Vulcan Trefoil Cleats type VRT+)

Part Number	Trefoil Cable Formation		Weight g
	Min Dia. mm	Max Dia. Mm	
FS24-34SD	24	34	131
FS30-41SD	30	41	144
FS37-47SD	37	47	155
FS43-54SD	43	54	168
FS50-60SD	50	60	180
FS56-67SD	56	67	193
FS63-73SD	63	73	204
FS69-80SD	69	80	217
FS72-85SD	72	85	226
FS82-95SD	82	95	245
FS92-105SD	92	105	264
FS102-115SD	102	115	282
FS112-125SD	112	125	301
FS122-135SD	122	135	319
FS132-145SD	132	145	338
FS-T001-4	Special Drive Socket		

Heavy Duty (Suitable for use with Emperor Trefoil Cleats type ER)

Part Number	Trefoil Cable Formation		Weight g
	Min Dia. mm	Max Dia. Mm	
FS24-34HD	24	34	165
FS30-41HD	30	41	185
FS37-47HD	37	47	202
FS43-54HD	43	54	221
FS50-60HD	50	60	238
FS56-67HD	56	67	258
FS63-73HD	63	73	275
FS69-80HD	69	80	294
FS72-85HD	72	85	308
FS82-95HD	82	95	336
FS92-105HD	92	105	364
FS102-115HD	102	115	392
FS112-125HD	112	125	420
FS122-135HD	122	135	448
FS132-145HD	132	145	476
FS-T001-4	Special Drive Socket		

FlexiStrap is available with or without a polymeric LSF liner. If a liner is required add suffix 'L' to the part number.

All Straps are 50mm wide.