

SOVEREIGN (HDSS)

The Sovereign cable cleats are metallic cable cleats which have been designed, constructed, and tested in accordance with the International Standard IEC 61914: Cable cleats for electrical installations.

The Sovereign cable cleat has been designed and tested for high short-circuit conditions on cables held in trefoil application / formation, to ensure the securing and retention of cables without damage to the cable(s).

The range is fabricated from 316L stainless-steel, giving it high creep strength whilst providing excellent corrosion resistance in the harshest of environments.

The cleat has one M12 and two M10 fixing clearance holes within its base, allowing versatility to the installer during installation, and is designed to enable the product to be secured to a variety of mounting surfaces. The hinge opens fully, allowing the cables to be easily placed within the cable cleat, to aid the installer before closing and securing via the mouth piece bolt.

Liners come as standard which help to restrain the cable(s) within vertical applications. Where thermal elongation of cables occurs, the liner also provides a layer of protection between the cable sheath and the cable cleat during normal operation.

This additional layer protects the cable from chafing on any mounting surface due to differential movements such as those found in marine and offshore applications.

The liners also assist in the extra protection of cable(s) in the event of short-circuit fault conditions. The standard liners supplied are classified as Low Smoke and Fume Zero Halogen (LSFOH) and Phosphorus-Free.

FOR FITTING TO UNSLOTTED RUNGS, PLEASE SEE C-CLAMP ACCESSORY PAGE



FEATURES

- Third party certification to IEC 61914
- 316L stainless-steel
- 13 - 130 mm in 26 sizes for trefoil formation / application
- Short-circuit rating of 190kA peak fault
- Operating temperature -60°C to +60°C -76°F to +140°F
- Standard Polymer Liners are classified as Low Smoke and Fume Zero Halogen (LSFOH), Phosphorus-free
- Combined single (M12) and two bolt (M10) fixing design
- High temperature liner version with HT suffix available

SHORT-CIRCUIT TESTING TO IEC 61914 - CLAUSE 9.5

TREFOIL FORMATION

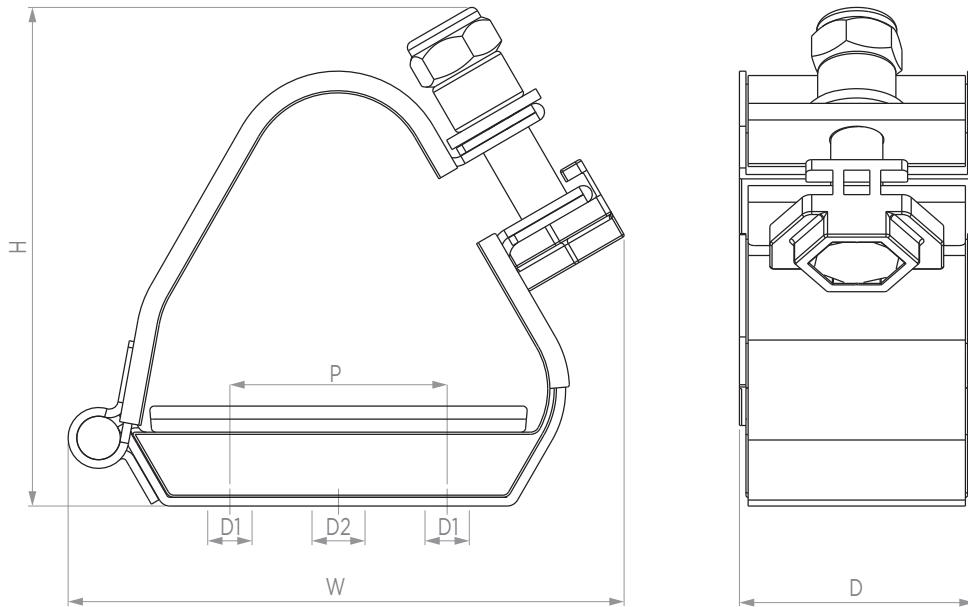
One short-circuit 300mm fixed cleat centres	One short-circuit 300mm fixed cleat centres	Two short-circuits 600mm fixed cleat centres	Two short-circuits 600mm fixed cleat centres
0.1 sec	1sec	0.1 sec	1sec
190kA Peak	96kA Peak	150kA Peak	80kA Peak
87.7kA r.m.s	46.1kA r.m.s	68.2kA r.m.s	38.1kA r.m.s

300mm SOVEREIGN HDSS (0.1 SEC)

CABLE OD (mm)	PEAK kA
36	190.0
38	195.2
43	207.7
59	243.5
65	255.3



TECHNICAL DATA & CLASSIFICATION	
TYPE	6.1.3 Composite HDSS - Heavy Duty Stainless-steel
DESIGN SPECIFICATION	IEC 61914
TEMPERATURE FOR PERMANENT APPLICATION	-60°C to +60°C (High temperature liner version with HT suffix available) IEC 61914 clause / part 6.2
NEEDLE FLAME TEST	Pass - 120 second flame application time IEC 61914 clause 10.0, 10.1, IEC 60695-11-5
LATERAL LOAD TEST	Refer to CMP Products, IEC 61914 clause 9.3
AXIAL LOAD TEST	0.7kN, IEC 61914 clause 9.4
IMPACT RESISTANCE	Pass - Very heavy IEC 61914 clause 6.3, 6.3.5, 9.2
MATERIAL	316L Stainless-steel with Standard Polymer Liner Standard Polymer Liners are classified as Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free



CABLE CLEAT SELECTION TABLE

SOVEREIGN PART NO.	CABLE Ø RANGE TAKE (mm)	DIMENSIONS (mm)					WEIGHT (g)	
		W	H	D	P	FIXING HOLE Ø		
						D1	D2	
HDSS013017	13-17	88	86	60	-	-	1 x M10	420
HDSS017021	17-21	99	88	54	25	2 x M10	1 x M12	430
HDSS019023	19-23	100	87	54	25	2 x M10	1 x M12	440
HDSS023028	23-28	104	88	54	25	2 x M10	1 x M12	457
HDSS027032	27-32	106	97	54	25	2 x M10	1 x M12	474
HDSS030035	30-35	108	103	54	25	2 x M10	1 x M12	485
HDSS033038	33-38	110	107	54	25	2 x M10	1 x M12	501
HDSS036042	36-42	132	108	54	50	2 x M10	1 x M12	570
HDSS040046	40-46	134	113	54	50	2 x M10	1 x M12	589
HDSS044050	44-50	136	121	54	50	2 x M10	1 x M12	605
HDSS048055	48-55	138	127	54	50	2 x M10	1 x M12	626
HDSS051058	51-58	140	130	54	50	2 x M10	1 x M12	640
HDSS055062	55-62	157	138	54	75	2 x M10	1 x M12	705
HDSS059066	59-66	157	145	54	75	2 x M10	1 x M12	718
HDSS063070	63-70	160	152	54	75	2 x M10	1 x M12	738
HDSS067074	67-74	163	160	54	75	2 x M10	1 x M12	755
HDSS071078	71-78	168	167	54	75	2 x M10	1 x M12	774
HDSS074082	74-82	190	175	54	75	2 x M10	1 x M12	859
HDSS077085	77-85	192	180	54	75	2 x M10	1 x M12	874
HDSS082088	82-88	193	186	54	75	2 x M10	1 x M12	882
HDSS088096	88-96	202	201	54	75	2 x M10	1 x M12	919
HDSS096103	96-103	214	215	54	75	2 x M10	1 x M12	952
HDSS103111	103-111	237	229	54	75	2 x M10	1 x M12	1059
HDSS111119	111-119	248	244	54	75	2 x M10	1 x M12	1096
HDSS119128	119-128	265	260	54	75	2 x M10	1 x M12	1156
HDSS124130	124-130	269	262	54	75	2 x M10	1 x M12	1159

Coatings are available upon request by adding the following suffixes to the ordering reference - EC for epoxy coating, PC for polyester coating and TC for thermoplastic coating. Example order reference for epoxy coating suffix EC (HDSS033038EC). Fasteners required to secure the cable cleat to the support structure are not included but can be supplied upon request - see cleat fixing pack TDS752. Isolation/separation pads (to prevent corrosion between two dissimilar metals) are not included but can be supplied on request - see isolation/separation pad TDS733.