

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 Sovereign cable cleat is available for trefoil application/formation for diameters of 17mm to 128mm in 24 sizes.

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.



FEATURES

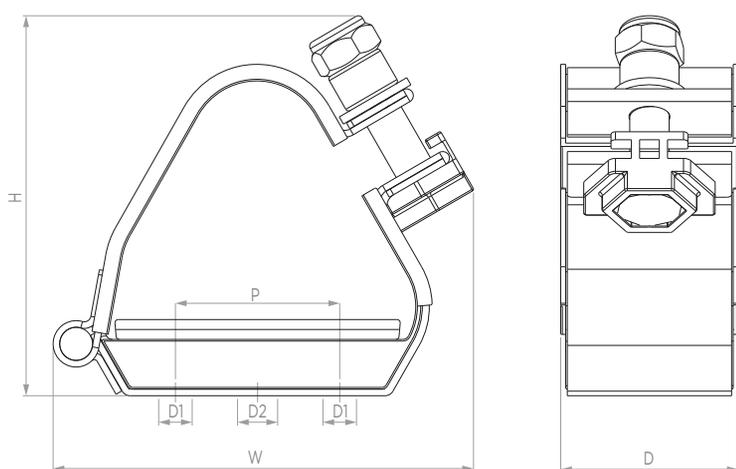
- Third party certification to IEC 61914
- 316L stainless steel
- 17 - 128mm in 24 sizes for trefoil formation / application
- Short circuit rating of 190kA peak fault
- Operating temperature -60°C to +60°C
- Standard Polymer Liners are classified as Low Smoke and Fume Zero Halogen (LSFOH), Phosphorus-free
- Combined single (M12) and two bolt (M10) fixing design



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 IEC 61914 clause 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

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
0.1sec	1sec	0.1sec	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



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	
HDSS017021	17-21	99	88	54	25	2 x M10	1 x M12	406
HDSS019023	19-23	100	87	54	25	2 x M10	1 x M12	417
HDSS023028	23-28	104	88	54	25	2 x M10	1 x M12	450
HDSS027032	27-32	106	97	54	25	2 x M10	1 x M12	465
HDSS030035	30-35	108	103	54	25	2 x M10	1 x M12	473
HDSS033038	33-38	110	107	54	25	2 x M10	1 x M12	485
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	581
HDSS044050	44-50	136	121	54	50	2 x M10	1 x M12	594
HDSS048055	48-55	138	127	54	50	2 x M10	1 x M12	616
HDSS051058	51-58	140	130	54	50	2 x M10	1 x M12	627
HDSS055062	55-62	157	138	54	75	2 x M10	1 x M12	704
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	733
HDSS067074	67-74	163	160	54	75	2 x M10	1 x M12	748
HDSS071078	71-78	168	167	54	75	2 x M10	1 x M12	764
HDSS074082	74-82	190	175	54	75	2 x M10	1 x M12	863
HDSS077085	77-85	192	180	54	75	2 x M10	1 x M12	873
HDSS082088	82-88	193	186	54	75	2 x M10	1 x M12	883
HDSS088096	88-96	202	201	54	75	2 x M10	1 x M12	914
HDSS096103	96-103	214	215	54	75	2 x M10	1 x M12	942
HDSS103111	103-111	237	229	54	75	2 x M10	1 x M12	1055
HDSS111119	111-119	248	244	54	75	2 x M10	1 x M12	1086
HDSS119128	119-128	265	260	54	75	2 x M10	1 x M12	1122

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 TDS736.