

Sovereign (HDSS cable cleat)



Features

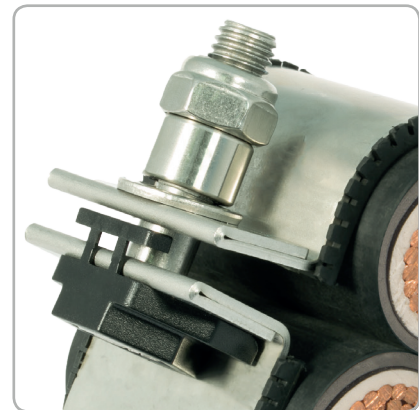
- Third party certification to IEC 61914:2009
- 316L stainless steel
- 17 - 128mm in 24 sizes for trefoil formation / application
- Short circuit rating of 190kA peak fault
- Operating temperature -50°C to +60°C
- Standard liners which are classified as Low Smoke & Fume (LSF), Zero Halogen (LS0H) and Phosphorus Free
- Combined single (M12) and two bolt (M10) fixing design

The CMP Products Sovereign cable cleat range consists of metallic cable cleats which have been designed, constructed, and tested in accordance with the International Standard 'cable cleats for Electrical Installations' IEC 61914:2009. 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.

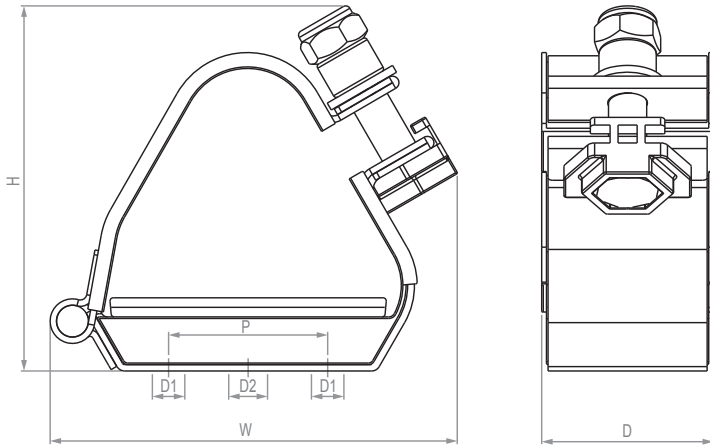
The Sovereign cable cleat is available for trefoil application / formation for diameters of 17mm to 128mm in 24 sizes. The cable cleat is fabricated from 316L stainless steel, giving it high creep strength whilst providing excellent corrosion resistance in the harshest of environments.

The Sovereign cable cleat 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 Sovereign cable cleat 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.

The standard liners help to restrain the cables within vertical applications, providing a layer of protection between the cable sheath and the cable cleat during normal operation, where thermal elongation of cable occurs, protecting the cable from chafing on any mounting surface due to differential movements such as those found in marine and offshore applications. The standard liners also assist in the extra protection of cables in the event of short circuit fault conditions and are classified as Low Smoke & Fume (LSF), Zero Halogen (LS0H) and Phosphorus Free.



Technical Data



Technical Data & Classification	
Type	6.1.3 Composite HDSS - Heavy Duty Stainless Steel
Design Specification	IEC 61914:2009
Temperature for permanent application	-50°C to +60°C IEC 61914:2009 clause 6.2
Needle Flame Test	Pass - 120 second flame application time IEC 61914:2009 clause 10.0, 10.1, IEC 60695-11-5
Lateral Load Test	Refer to CMP Products, IEC 61914:2009 clause 9.3
Axial Load Test	0.7kN, IEC 61914:2009 clause 9.4
Impact Resistance	Pass - Very heavy IEC 61914:2009 clause 6.3, 6.3.5, 9.2
Material	316L Stainless Steel with Standard Liner <i>Standard liners are classified as Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free</i>

300mm CAT 1 Sovereign HDSS (0.1 sec)	
Cable OD (mm)	Peak kA
36	190.0
38	195.2
43	207.7
59	243.2
65	255.3

Short Circuit Testing to IEC 61914:2009 - Clause 9.5			
Trefoil Formation			
One short circuit (6.4.3) 300mm fixed cleat centres	One short circuit (6.4.3) 300mm fixed cleat centres	Two short circuits (6.4.4) 600mm fixed cleat centres	Two short circuits (6.4.4) 600mm fixed cleat centres
0.1 sec	1 sec	0.1 sec	1 sec
190kA Peak	96kA Peak	150kA Peak	80kA Peak
87.7kA RMS	46.1kA RMS	68.2kA RMS	38.1kA RMS

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

Fasteners required to secure the cable cleat to the support structure are not included with the ordering references shown in the selection table but can be supplied on request.