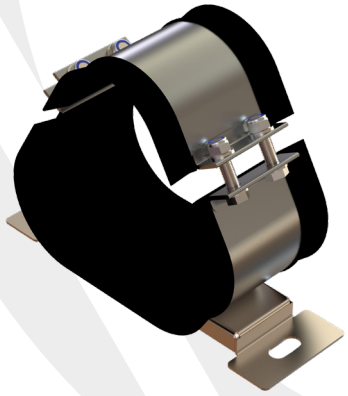
EVEREST (HVSS-CC)



CMP Everest trefoil cable cleat range has been designed for the safe retention of high voltage cables. The Everest is designed, constructed and tested in accordance with the International Standard IEC 61914: Cable cleats for electrical installations; to ensure the securing and retention of cables without sustaining damage to the cable(s). The product variations comprise of a fixed, slide and a float cleat or intermediate restraint.

The Everest trefoil range of cable cleats are designed for use with high voltage cable installations and are manufactured to suit a range of cable diameters. The range consists of three cable cleats designed to be installed as a system; a fixed cleat, a slide cleat and an intermediate restraint or float cleat (if required).

The Everest fixed cleat is designed to secure the cables in a trefoil formation to a mounting surface, providing excellent axial and lateral retention. This variation securely holds the cables to a support structure. The Everest fixed cleat can be installed in a rigid system where there would be no allowance for movement within the system.

The Everest slide cleat is designed to secure cables in trefoil formation to a mounting surface, whilst providing excellent axial and lateral load retention the sliding base design allows for the cables to move in a horizontal direction, perpendicular to the cables direction. The Everest slide cleat is to be installed in a flexible system, where a snaking method is adopted. The slide bases allow the cables to expand the arc within the snake so to take up additional length generated by thermal expansion.

Cyclone II Intermediate restraints (2STR) are designed to wrap around the cables twice to provide resistance required for moderate short circuit faults, whilst the Cyclone III intermediate restraints (3STR) are designed to wrap around the cables three times to provide the resistance needed during high fault short circuit conditions.

HVSS-CC cleats are fabricated in non-magnetic 316L stainless steel.

Flame retardant low smoke and fume fixed liners are fitted as standard, helping to:
- Restrain the cables within vertical applications.
- Provide a layer of protection to both the cable sheath and the cable cleat, during normal operation where thermal elongation of cable occurs.
- Protect the cable from chafing on any mounting surface due to differential movements, such as those found in marine and offshore applications.
- Assist in the extra protection of cables in the event of short circuit fault condition

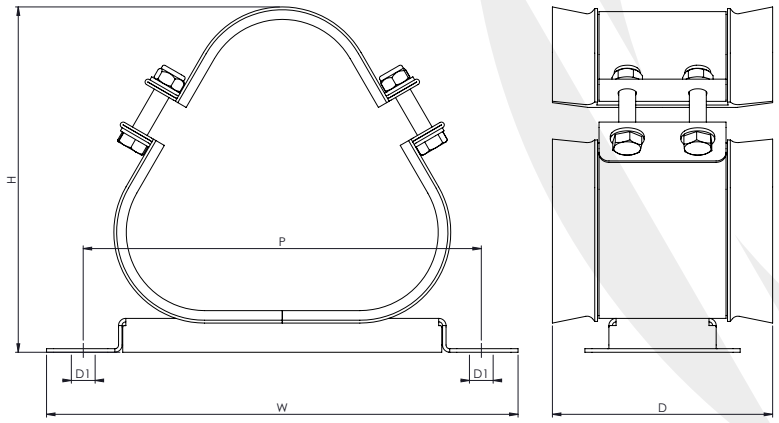
FEATURES

- **Third party certification to IEC 61914**
- **Available in 316L stainless steel**
- **Sunlight (UV) resistant**
- **Operating temperature -60°C to +60°C**
- **Available in slide or fixed design**
- **Excellent axial and lateral load retention**

TECHNICAL DATA & CLASSIFICATION	
TYPE	IEC 61914 6.1.3 Composite
DESIGN SPECIFICATION	IEC 61914
TEMPERATURE FOR PERMANENT APPLICATION	-60°C to +60°C IEC 61914 clause / part 6.2
NEEDLE FLAME TEST	Pass - 120 seconds IEC 61914 clause 10.0, 10.1, IEC 60695-11-5
IMPACT RESISTANCE	Pass - Very Heavy IEC 61914 clause 6.3, 6.3.5, 9.2
MATERIAL	316L Stainless Steel
LINER MATERIAL	FR LSF / LSOH Polymer
CABLE FORMATION	Trefoil

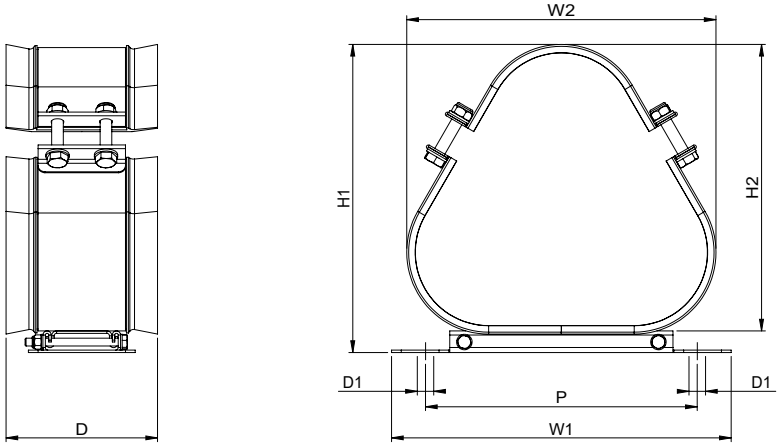
SHORT CIRCUIT TESTING TO IEC 61914 - CLAUSE 9.5	
TREFOIL FORMATION	
One Short Circuit 1.4m, with intermediate restraints	Two Short Circuit 1.4m, with intermediate restraints
142mm	142mm
1 sec	1 sec
238kA Peak	164kA Peak
92 kA r.m.s	64 kA r.m.s

Fixed type cable cleat



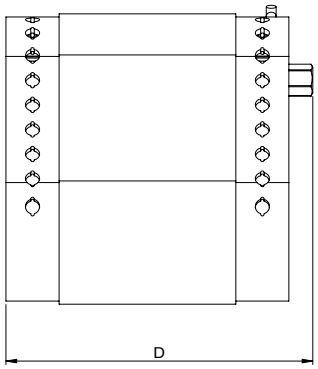
CABLE CLEAT SELECTION TABLE									
HVSS-CC PART NO.	CABLE Ø RANGE TAKE (mm)	DIMENSIONS mm							WEIGHT (g)
		W1	W2	H1	H2	D	P	D1	
HVSS-CC-090100-FX	90-100	217	282	201	225	156	228	2 x M16	2740
HVSS-CC-100110-FX	100-110	239	334	221	244	156	282	2 x M16	3019
HVSS-CC-110120-FX	110-120	259	354	239	262	156	302	2 x M16	3208
HVSS-CC-120130-FX	120-130	279	374	258	281	156	322	2 x M16	3396
HVSS-CC-130140-FX	130-140	299	394	277	300	156	342	2 x M16	3585
HVSS-CC-140150-FX	140-150	319	414	295	318	156	362	2 x M16	3774
HVSS-CC-150160-FX	150-160	339	434	314	337	156	382	2 x M16	3962
HVSS-CC-160170-FX	160-170	359	454	333	356	156	402	2 x M16	4151
HVSS-CC-170180-FX	170-180	379	474	351	374	156	422	2 x M16	4340
HVSS-CC-180190-FX	180-190	399	494	370	393	156	442	2 x M16	4528
HVSS-CC-190200-FX	190-200	419	514	389	412	156	462	2 x M16	4717
HVSS-C-200210-FX	200-210	432	494	403	428	143	442	2 x M16	4692
HVSS-C-220230-FX	220-230	472	534	441	465	143	482	2 x M16	5061
HVSS-C-240250-FX	240-250	512	574	478	502	143	522	2 x M16	5429
HVSS-C-260270-FX	260-270	552	574	515	539	143	522	2 x M16	5687
HVSS-C-270280-FX	270-280	572	574	534	538	143	522	2 x M16	5821
HVSS-C-280290-FX	280-290	599	574	557	581	156	522	2 x M16	6086
HVSS-C-300310-FX	300-310	639	574	594	618	156	522	2 x M16	6362

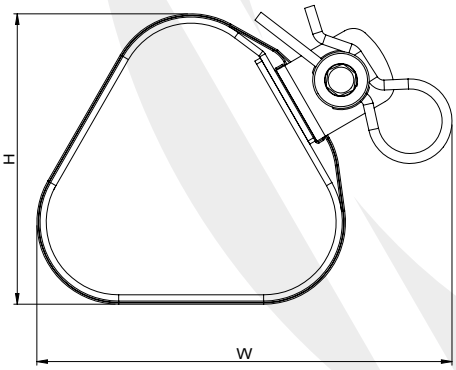
Slide type cable cleat



CABLE CLEAT SELECTION TABLE									
HVSS-CC PART NO.	CABLE Ø RANGE TAKE (mm)	DIMENSIONS mm							WEIGHT (g)
		W1	W2	H1	H2	D	P	D1	
HVSS-CC-100110-SL	100-110	239	334	221	244	156	282	2 x M16	3019
HVSS-CC-110120-SL	110-120	259	354	239	262	156	302	2 x M16	3208
HVSS-CC-120130-SL	120-130	279	374	258	281	156	322	2 x M16	3396
HVSS-CC-130140-SL	130-140	299	394	277	300	156	342	2 x M16	3585
HVSS-CC-140150-SL	140-150	319	414	295	318	156	362	2 x M16	3774
HVSS-CC-150160-SL	150-160	339	434	314	337	156	382	2 x M16	3962
HVSS-CC-160170-SL	160-170	359	454	333	356	156	402	2 x M16	4151
HVSS-CC-170180-SL	170-180	379	474	351	374	156	422	2 x M16	4340
HVSS-CC-180190-SL	180-190	399	494	370	393	156	442	2 x M16	4528
HVSS-CC-190200-SL	190-200	419	514	389	412	156	462	2 x M16	4717

Cyclone Strap Intermediate Restraint





CABLE CLEAT SELECTION TABLE

CYCLONE II STRAP PART NO.	CYCLONE III STRAP PART NO.	CABLE Ø RANGE TAKE (MM)			DIMENSIONS (MM)			II STRAP WEIGHT (g)	III STRAP WEIGHT (g)
		SINGLE	TREFOIL	QUAD	W	H	D		
2STR024034	3STR024034	36-50	24-34	21-29	73	67	80	211	254
2STR030041	3STR030041	45-60	30-41	26-35	87	81	80	230	267
2STR037047	3STR037047	55-69	37-47	32-40	97	93	80	247	301
2STR043054	3STR043054	64-80	43-54	37-46	113	106	80	265	320
2STR050060	3STR050060	75-88	50-60	43-51	125	118	80	280	336
2STR056067	3STR056067	83-99	56-67	49-57	139	131	80	300	377
2STR063073	3STR063073	94-108	63-73	55-62	151	142	80	316	385
2STR069080	3STR069080	103-118	69-80	60-68	165	156	80	334	421
2STR072085	3STR072085	114-150	72-85	66-72	175	165	80	348	429
2STR082095	3STR082095	145-165	82-95	70-81	195	185	80	375	465
2STR092105	3STR092105		92-105	70-81	215	204	80	402	502
2STR102115	3STR102115		102-115	88-98	235	223	80	429	549
2STR112125	3STR112125		112-125	96-107	255	243	80	456	588
2STR122135	3STR122135		122-135	105-116	275	262	80	483	619
2STR132145	3STR132145		132-145	113-124	295	281.5	80	510	657