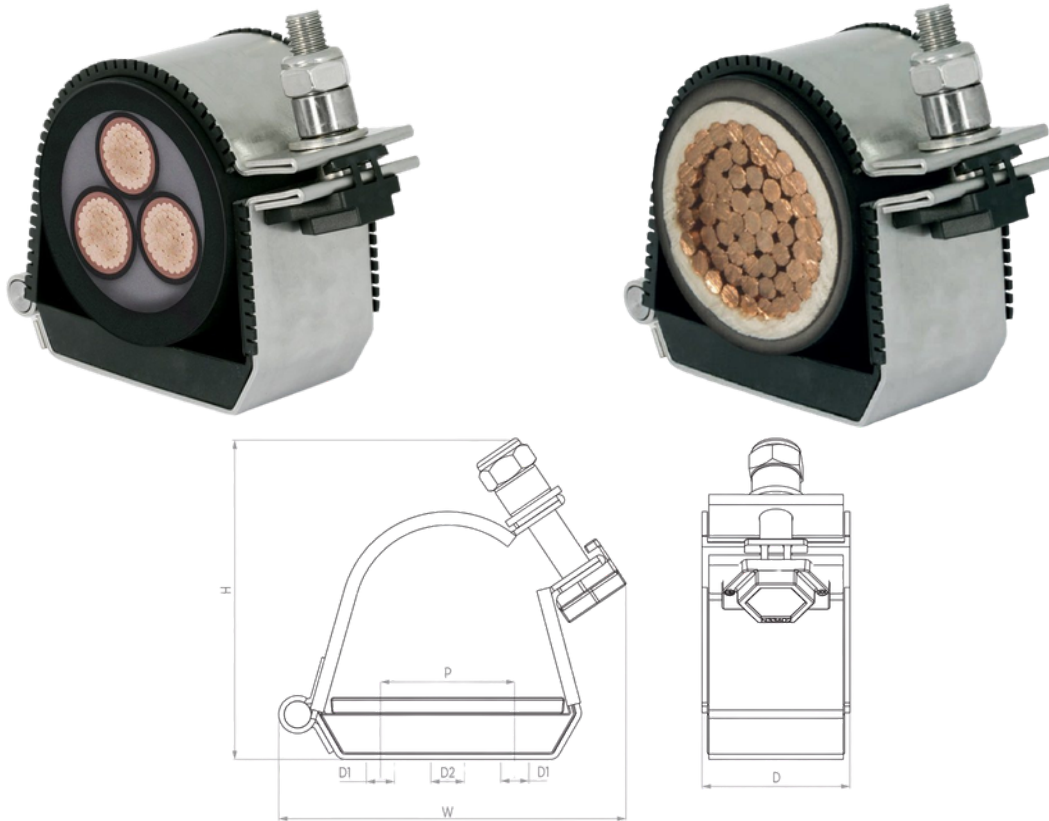


SAPPHIRE - SHDSS

HEAVY DUTY STAINLESS STEEL HINGED CABLE CLEAT



GENERAL DESCRIPTION

The SHDSS cable cleat range consists of metallic cable cleats designed, constructed, and tested in accordance with the International Standard IEC 61914: Cable cleats for electrical installations.

The SHDSS Sapphire cable cleat is designed and tested for high short-circuit conditions, securing single cables in parallel/flat formations without damage. It accommodates cable diameters from 19 to 150 mm across 13 sizes and is made from 316L stainless steel for high creep strength and excellent corrosion resistance in harsh environments.

The cleat features one M12 and two M10 base fixing holes for flexible installation on various mounting surfaces. Its fully opening hinge allows easy cable placement before closing and securing with a mouthpiece bolt.

Supplied with standard liners, the cleat supports vertical applications, protects the cable sheath during thermal expansion, and prevents chafing caused by movement (e.g., in marine or offshore settings). The liners also provide added protection during short-circuit faults and are Low Smoke & Fume (LSF), Zero Halogen (LSOH), and phosphorus-free.

TDS684 REV10 11/22

SAPPHIRE (SHDSS) | FEATURES & TECHNICAL DATA

FEATURES

- ▶ Third party certification to IEC 61914
- ▶ 19 to 150mm in 13 sizes for single / parallel formation
- ▶ Standard Polymer Liners are classified as Low Smoke and Fume Zero Halogen (LSF0H), Phosphorus-free
- ▶ 316L stainless steel
- ▶ Operating temperature -60°C to +60°C
- ▶ Combined single (M12) and two bolt (M10) fixing design

TECHNICAL DATA & CLASSIFICATION

Type	6.1.3 Composite SHDSS — Single 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	3.5kN — 14.5kN IEC 61914 clause 9.3
Axial Load Test	0.2kN — 0.9kN 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

MULTICORE FORMATION		PARALLEL FORMATION	
One short circuit 600mm fixed cleat centres	Two short circuits 600mm fixed cleat centres	One short circuit 600mm fixed cleat centres 105mm cable centres	Two short circuits 600mm fixed cleat centres 105mm cable centres
0.1 sec	0.1 sec	0.1 sec	0.1 sec
105kA Peak	105kA Peak	110kA Peak	109kA Peak
50.0kA r.m.s	50.0kA r.m.s	50.0kA r.m.s	50.0kA r.m.s

SAPPHIRE (SHDSS) | CABLE CLEAT SELECTION

CABLE CLEAT SELECTION TABLE

PART NO.	CABLE Ø RANGE TAKE (MM)	DIMENSIONS MM				FIXING HOLE Ø		WEIGHT (G)
		W	H	D	P	D1	D2	
SHDSS019026	19-26	94	85	54	25	2 x M10	1 x M12	395
SHDSS026032	26-32	95	88	54	25	2 x M10	1 x M12	402
SHDSS032038	32-38	96	93	54	25	2 x M10	1 x M12	431
SHDSS038046	38-46	100	100	54	25	2 x M10	1 x M12	446
SHDSS046051	46-51	104	103	54	25	2 x M10	1 x M12	456
SHDSS051058	51-58	108	107	54	25	2 x M10	1 x M12	472
SHDSS058070	58-70	129	119	54	50	2 x M10	1 x M12	554
SHDSS070083	70-83	137	120	54	50	2 x M10	1 x M12	581
SHDSS083097	83-97	157	137	54	75	2 x M10	1 x M12	665
SHDSS096109	96-109	165	133	54	75	2 x M10	1 x M12	688
SHDSS106120	106-120	170	142	54	75	2 x M10	1 x M12	713
SHDSS120135	120-135	197	157	54	75	2 x M10	1 x M12	814
SHDSS135150	135-150	205	172	54	75	2 x M10	1 x M12	847

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 (SHDSS046051EC). 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.

TDS684 REV10 11/22