

SATURN (QSDSS)



THORNE & DERRICK
INTERNATIONAL

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The Saturn cable cleats are metallic cable cleats which have been designed, constructed, and tested in accordance with the International Standard 'cable cleats for Electrical Installations' IEC 61914 to ensure the securing and retention of cables, without sustaining damage to the cable.

The range is fabricated from 316L stainless steel, giving it high creep strength whilst providing excellent corrosion resistance in the harshest of environments. Designed for quad application / formation. The Saturn cleat is ideal for use in data centers, rail and other industries and applications where the neutral and three phase conductors are secured together.

The cleat has three 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 pre formed cleat opens fully allowing the cables to be easily placed within the cable cleat to aid the installer before closing and securing via the mouth bolt.

Liners come as standard which help to restrain the cables 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 & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free.



TECHNICAL DATA & CLASSIFICATION

TYPE	6.1.3 Composite QSDSS - Standard Duty Stainless Steel
DESIGN SPECIFICATION	IEC 61914
TEMPERATURE FOR PERMANENT APPLICATION	-50°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	Refer to CMP Products, 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 Liners Standard liners are classified as Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free

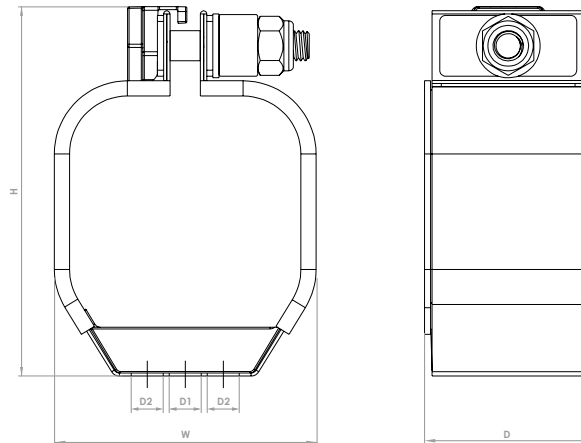
SHORT CIRCUIT TESTING TO IEC 61914 - CLAUSE 9.5

QUAD FORMATION

One short circuit 300mm fixed cleat centres	Two short circuits 300mm fixed cleat centres	Two short circuits 600mm fixed cleat centres	One short circuit 300mm fixed cleat centres
0.1 sec	0.1 sec	0.1 sec	1 sec
152kA Peak	138kA Peak	103kA Peak	82kA Peak
69.1kA r.m.s	62.7kA r.m.s	49.0kA r.m.s	40.2kA r.m.s

FEATURES

- Third party certification to IEC 61914
- 316L stainless steel
- For quad formation / application
- Short circuit rating of 152kA peak fault
- Operating temperature -50°C to +60°C or -58°F to +140°F
- Liners are classified as Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free
- Combined single (M10) or 2 bolt (M10) fixing design



CABLE CLEAT SELECTION TABLE

QUAD PART NO.	CABLE Ø RANGE	DIMENSIONS (mm)					WEIGHT (g)
		W	H	D	FIXING HOLE Ø		
					D1	D2	
QSDSS019023	19-23	56	93	58	1 x M10	N/A	309
QSDSS021027	21-27	64	101	58	1 x M10	N/A	334
QSDSS026031	26-31	72	109	58	1 x M10	N/A	352
QSDSS030034	30-34	78	115	58	1 x M10	N/A	364
QSDSS033037	33-37	84	121	55	1 x M10	2 x M10	338
QSDSS036040	36-40	90	127	55	1 x M10	2 x M10	349
QSDSS039043	39-43	96	133	55	1 x M10	2 x M10	354
QSDSS041045	41-45	100	137	55	1 x M10	2 x M10	366
QSDSS044047	44-47	104	140	55	1 x M10	2 x M10	382
QSDSS046051	46-51	110	147	55	1 x M10	2 x M10	429
QSDSS049053	49-53	116	153	55	1 x M10	2 x M10	437
QSDSS052056	52-56	122	159	55	1 x M10	2 x M10	452
QSDSS055059	55-59	128	165	55	1 x M10	2 x M10	467
QSDSS058062	58-62	134	171	55	1 x M10	2 x M10	479
QSDSS061065	61-65	140	177	55	1 x M10	2 x M10	495
QSDSS064068	64-68	146	183	55	1 x M10	2 x M10	512
QSDSS067071	67-71	152	189	55	1 x M10	2 x M10	525

Additional sizes are available upon request.

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 (QSDSS026031EC). Fasteners required to secure the cable cleat to the support structure are not included but can be supplied upon request - see cleat fixing pack page 64-65. Isolation/separation pads (to prevent corrosion between two dissimilar metals) are not included but can be supplied on request - see isolation/separation pad page 66.