

RELIANCE (SDAL)

The Reliance 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(s).

The range is fabricated from 5000 series aluminium and is available in 24 sizes to suit cable diameters 19mm to 128mm.

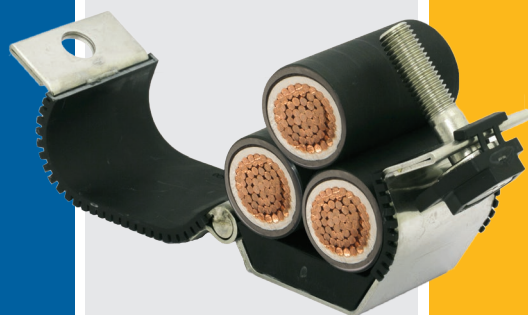
The cleat has three M10 fixing clearance holes within one base, allowing versatility to the installer during installation to use either one M10 bolt or two M10 bolts, and is designed to enable the product to be secured to a variety of mounting surfaces. The hinge opens fully allowing the cables to be 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 polymer liners supplied are classified as Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free.



FEATURES

- Third party certification to IEC 61914
- 5000 series aluminium
- 3mm material thickness
- 19 - 128mm in 24 sizes for trefoil formation / application
- Short circuit rating of 106kA peak fault
- Operating temperature -50°C to +60°C
- Liners are classified as Low Smoke & Fume (LSF), Zero Halogen (LSOH) and Phosphorus Free
- Combined single (M10) or two bolt (M10) fixing design



TECHNICAL DATA & CLASSIFICATION

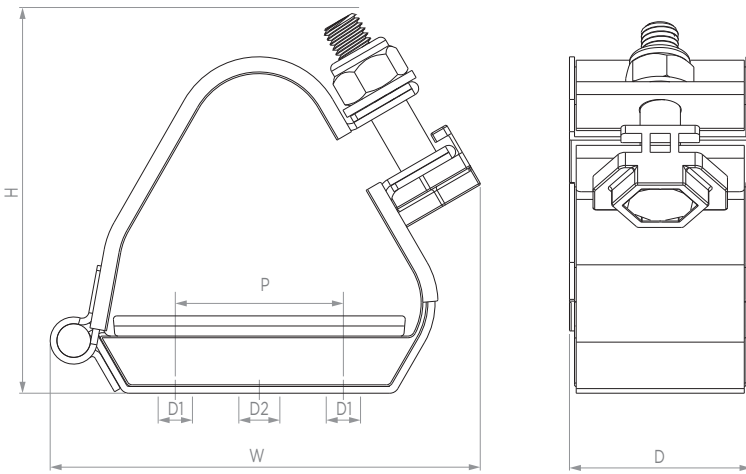
TYPE	6.1.3 Composite SDAL - Aluminium
DESIGN SPECIFICATION	IEC 61914
TEMPERATURE FOR PERMANENT APPLICATION	-50°C to +60°C IEC 61914
NEEDLE FLAME TEST	Pass - 120 second flame application time IEC 61914, IEC 60695-11-5
LATERAL LOAD TEST	Refer to CMP Products
AXIAL LOAD TEST	Refer to CMP Products
IMPACT RESISTANCE	Pass - Very heavy IEC 61914
MATERIAL	5000 Series Aluminium 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
0.1 sec	1.0 sec
106kA Peak 50.5kA r.m.s	70kA Peak 33.3kA r.m.s
Cable Ø 38 mm	Cable Ø 38 mm

300MM RELIANCE SDAL (0.1 SEC)

CABLE OD (MM)	PEAK kA
36	103
38	106
43	112
59	132
65	138



CABLE CLEAT SELECTION TABLE

RELIANCE PART NO.	CABLE Ø RANGE TAKE (MM)	DIMENSIONS (MM)						WEIGHT (g)
		W	H	D	P	FIXING HOLE Ø		
						D1	D2	
SDAL019023	19-23	102	88	54	25	2 x M10	1 x M10	260
SDAL023028	23-28	106	94	54	25	2 x M10	1 x M10	285
SDAL027032	27-32	108	97	54	25	2 x M10	1 x M10	294
SDAL031035	31-35	110	103	54	25	2 x M10	1 x M10	302
SDAL034038	34-38	112	107	54	25	2 x M10	1 x M10	307
SDAL037042	37-42	134	107	54	50	2 x M10	1 x M10	357
SDAL041046	41-46	136	113	54	50	2 x M10	1 x M10	366
SDAL045050	45-50	138	121	54	50	2 x M10	1 x M10	376
SDAL049055	49-55	140	127	54	50	2 x M10	1 x M10	390
SDAL052058	52-58	142	130	54	50	2 x M10	1 x M10	398
SDAL056059	56-59	144	131	54	50	2 x M10	1 x M10	419
SDAL056062	56-62	159	138	54	75	2 x M10	1 x M10	448
SDAL060066	60-66	159	146	54	75	2 x M10	1 x M10	451
SDAL064070	64-70	162	153	54	75	2 x M10	1 x M10	461
SDAL068074	68-74	165	160	54	75	2 x M10	1 x M10	471
SDAL072078	72-78	170	168	54	75	2 x M10	1 x M10	483
SDAL076082	76-82	192	175	54	75	2 x M10	1 x M10	539
SDAL080086	80-86	196	183	54	75	2 x M10	1 x M10	547
SDAL084090	84-90	199	190	54	75	2 x M10	1 x M10	554
SDAL090098	90-98	208	205	54	75	2 x M10	1 x M10	576
SDAL098103	98-103	216	215	54	75	2 x M10	1 x M10	594
SDAL103111	103-111	239	229	54	75	2 x M10	1 x M10	663
SDAL111119	111-119	250	244	54	75	2 x M10	1 x M10	684
SDAL119128	119-128	267	261	54	75	2 x M10	1 x M10	720

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 (SDAL019023EC). 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.