

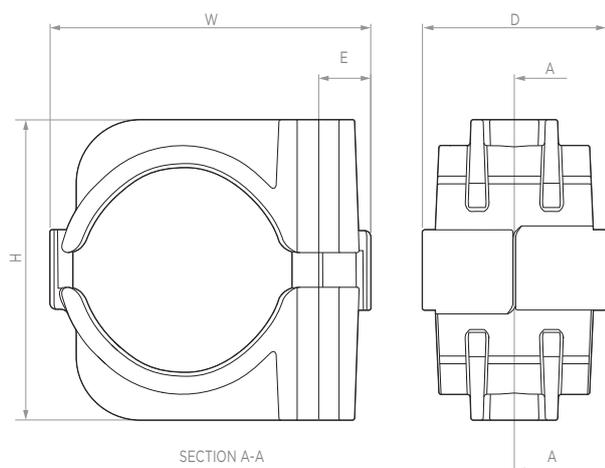
VALIANT (1BCAL)

The Valiant One Bolt Aluminium single cable cleat is a metallic cleat which has been designed, constructed, and tested in accordance with the International Standard 'cable cleats for Electrical Installations' (IEC 61914).

It ensures the retention and securing of single cables, without damaging or deforming the cable. The cable cleat is manufactured from high pressure die cast aluminium (LM20) making it suitable for both indoor and outdoor applications. Due to its unique twin arc internal patent pending design profile it exhibits excellent retention, limiting both the axial and lateral movement. The Valiant One Bolt cable cleat is available in twelve sizes suitable for cable diameters of 10mm up to 71mm. The cable cleat has an M10 clearance hole for securing it to a mounting surface.

FEATURES

- Third party certification to IEC 61914
- Available in high pressure die cast aluminium
- Sunlight (UV) resistant
- Operating temperature -60°C to +150°C
- Can be double stacked
- 10 - 71mm in 12 sizes
- Excellent axial & lateral load retention
- Single bolt fixing design



TECHNICAL DATA & CLASSIFICATION

TYPE	6.1.1 Metallic 1BCAL - One Bolt Aluminium Cable Cleat
DESIGN SPECIFICATION	IEC 61914
TEMPERATURE FOR PERMANENT APPLICATION	-60°C to +150°C IEC 61914 clause / part 6.2
NEEDLE FLAME TEST	Pass IEC 61914 clause 10.0, 10.1, IEC 60695-11-5
LATERAL LOAD TEST	5kN - 6kN IEC 61914 clause 9.3
AXIAL LOAD TEST	1.5kN IEC 61914 clause 9.4
IMPACT RESISTANCE	Pass - Very Heavy IEC 61914 clause 6.3, 6.3.5, 9.2
MATERIAL	High pressure die cast aluminium
MATERIAL COLOUR	Silver / grey

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
118kA Peak	89kA Peak	90kA Peak	76kA Peak
53.6kA r.m.s	42.3kA r.m.s	42.8kA r.m.s	36.1kA r.m.s

CABLE CLEAT SELECTION TABLE

VALIANT PART NO.	CABLE Ø RANGE TAKE (MM)	DIMENSIONS MM					WEIGHT (g) *(LUL +5%)
		W	H	D	E	FIXING HOLE Ø	
1BC1013A	10 - 13	41	34	46	13	1 x M10	57
1BC1316A	13 - 16	44	37	46	13	1 x M10	66
1BC1619A	16 - 19	47	40	46	13	1 x M10	74
1BC1923A	19 - 23	51	44	46	13	1 x M10	83
1BC2327A	23 - 27	55	48	46	13	1 x M10	93
1BC2732A	27 - 32	61	56	46	13	1 x M10	114
1BC3238A	32 - 38	67	62	46	13	1 x M10	130
1BC3845A	38 - 45	75	73	46	13	1 x M10	162
1BC4551A	45 - 51	81	76	46	13	1 x M10	181
1BC5158A	51 - 58	86	83	46	13	1 x M10	199
1BC5865A	58 - 65	94	90	46	13	1 x M10	222
1BC6571A	65 - 71	101	97	46	13	1 x M10	240

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 (1BC1013AEC). 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.