

# SOLACE (1BCHT)

The Solace Heavy Duty, One Bolt, High Temperature Fire Rated Stainless Steel single cable cleat is a cast metallic cleat which has been designed, constructed, and tested in accordance with the International Standard 'Cable Cleats for Electrical Installations' (IEC 61914).

These Fire Rated cable cleats can be used with fire performance cables to ensure the safe retention and securing of single cables in the event of a wiring system being affected by fire. These fire resisting supports help to maintain the electrical system's integrity for any critical circuits during an emergency situation to enable safe evacuation. The cable cleat is manufactured from Stainless Steel 316L 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 Solace One Bolt High Temperature Stainless Steel 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

- 316L Stainless Steel
- Operating temperature -60°C to +250°C
- Surpasses requirements of Fire testing BS5839 / BS8491 / EN50200 / BS8434 / AS-NZS 3013 (1,200°C) (Fire, shock & water)
- 10 - 71mm cable range take in 12 sizes
- Single bolt fixing design
- Can be stacked
- Excellent axial & lateral load retention
- Corrosion resistant

BS 5839 'Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises'

States that "Methods of cable support should be non-combustible and such that circuit integrity will not be reduced below that afforded by the cable used, and should withstand a similar temperature and duration to that of the cable, while maintaining adequate support"

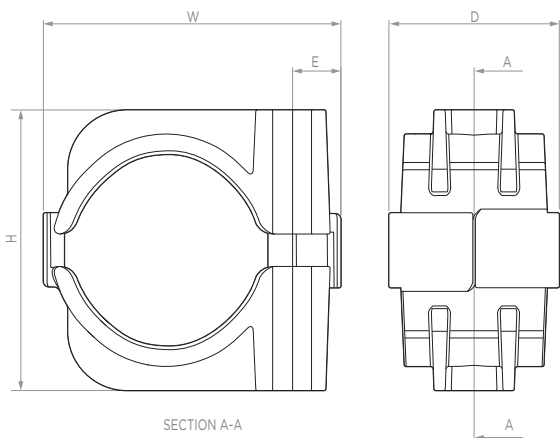
To adhere to this BSI standard fire rated Cable Cleats must be used to support the cable in the event of a fire.

## TECHNICAL DATA & CLASSIFICATION

TYPE	6.1.1 Metallic 1BCHT - One Bolt High Temperature Stainless Steel Cable Cleat
DESIGN SPECIFICATION	IEC 61914
TEMPERATURE FOR PERMANENT APPLICATION	-60°C to +250°C IEC 61914
FIRE TESTED	Surpasses requirements of Fire testing BS5839/BS8491 / EN50200/BS8434/AS-NZS 3013 (1,200°C) (Fire, shock & water)
NEEDLE FLAME TEST	Pass - 120 second flame application time IEC 61914, IEC 60695-11-5
LATERAL LOAD TEST	15kN - 23kN IEC 61914
AXIAL LOAD TEST	1kN IEC 61914
IMPACT RESISTANCE	Pass - Very Heavy IEC 61914
MATERIAL	316L Stainless Steel
MATERIAL COLOUR	Silver / grey

## SHORT CIRCUIT TESTING TO IEC 61914 - CLAUSE 9.5

PARALLEL FORMATION	
One short circuit 600mm fixed cleat centres 100mm cable centres	Two short circuit 600mm fixed cleat centres 100mm cable centres
0.1 sec	0.1 sec
100kA Peak	100kA Peak
47.6kA r.m.s	47.6kA r.m.s



SECTION A-A

## CABLE CLEAT SELECTION TABLE

SOLACE PART NO.	CABLE Ø RANGE TAKE (MM)	DIMENSIONS MM					FIXING HOLE Ø	WEIGHT (g)
		W	H	D	E			
1BC1013HT	10-13	41	34	46	13	1 x M10	164	
1BC1316HT	13-16	44	37	46	13	1 x M10	185	
1BC1619HT	16-19	47	40	46	13	1 x M10	215	
1BC1923HT	19-23	51	44	46	13	1 x M10	237	
1BC2327HT	23-27	55	48	46	13	1 x M10	277	
1BC2732HT	27-32	61	56	46	13	1 x M10	341	
1BC3238HT	32-38	67	62	46	13	1 x M10	387	
1BC3845HT	38-45	75	73	46	13	1 x M10	486	
1BC4551HT	45-51	81	76	46	13	1 x M10	541	
1BC5158HT	51-58	86	83	46	13	1 x M10	617	
1BC5865HT	58-65	94	90	46	13	1 x M10	697	
1BC6571HT	65-71	101	97	46	13	1 x M10	763	

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 (1BC3845HTEC). 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.