CABLE SUPPORT AND FIXING SYSTEMS

Catalogue

prysmian BICON etech components Power. Connected.

The planet's pathways

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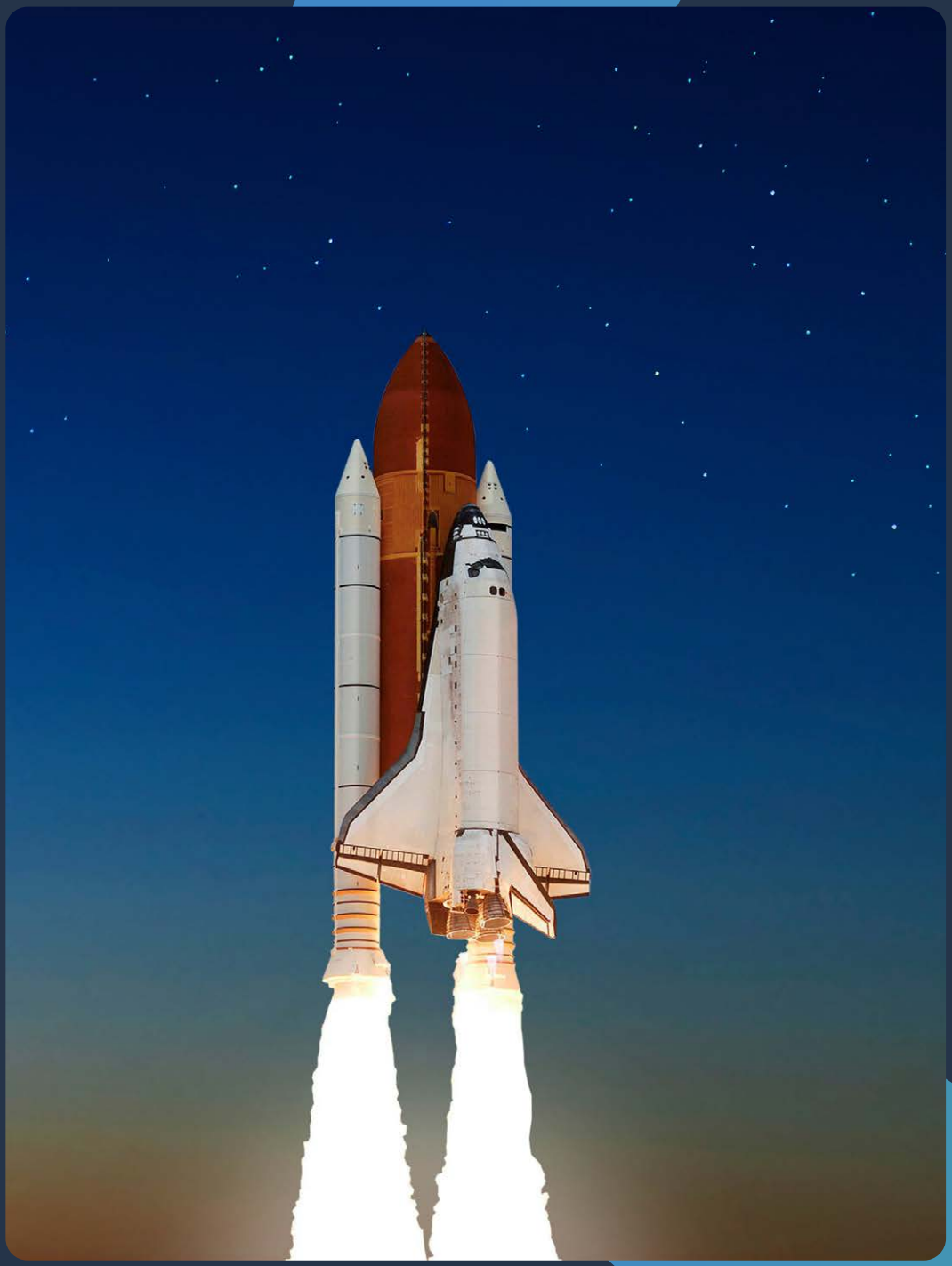
Prysmian is world leader in cables and systems for energy and digital networks with over 150 years of experience, about 30,000 employees, present in over 50 countries plus sales around €15 billion, Prysmian delivers solutions.

Prysmian are experts in TRANSMISSION, POWER GRIDS, DIGITAL SOLUTIONS and ELECTRIFICATION markets for subsea and underground cables used in energy and digital networks. It includes cables and accessories for low, medium and high voltage infrastructure, construction and industry including cables with special fire performance for life safety and property protection.

Prysmian is committed to sustainability through the Social and Climate Change Ambition plan announced in 2023 with our sustainability roadmap. The aim is to reduce Scope 1 and 2 GHGs by 46% with a €100 million investment for ten years and position Prysmian as a major player in the transition to low-carbon energy.

Our Social Ambition to improve diversity, equality and inclusion is on track, focusing on the career of women with STEM Backgrounds, the equal pay gap, community empowerment, employee engagement and upskilling. These targets for 2030 drive our Social Ambition goals and align Prysmian with the Sustainable Development Goals of the United Nations.

prysmian



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PRYSMIAN AND BICON

Prysmian Network Components based in Wrexham, UK, are the only manufacturer of BICON cable components, the world's leading cable accessories including cable cleats and cable fixing systems.

Our cable cleats and fixings have been developed by working closely between our own experts and our clients who install the cables to produce general and specialist products for a wide range of markets and applications. They are suitable for use with all high-quality cables and especially those by Prysmian.

Cleats including TWO-BOLT cleat, HOOK cleat, TELCLEAT and CLAW cleats are available in a range of materials to suit a variety of applications, plus heavy duty variants. MULTICLEAT / MULTISTRAP system and TREFOIL and QUAD families offer designers and installers multiple cable arrangement options.

Low fire hazard and fire-resistant cable systems should use appropriate cable fixings to avoid reducing fire performance of the cable system. This catalogue includes a wide variety of low smoke, zero halogen and fire-resistant cleats and fixings.

Harsh environments with specialist requirements can be met by using stainless steel products or Aluminium products with an additional thermoset epoxy surface coating applied. These options should be really considered in areas containing a combination of one or more of saline, chemical attack, pollution, high humidity or high temperature.

BICON

BICON Project Highlights

BICON fixings have been installed on major projects around the world including:

- **Crossrail / Elizabeth Line,** UK
- **Oxy**, Oman
- **BP Grangemouth**, UK
- **Temburong**, Brunei
- **Manyar Smelter**, Indonesia
- **Smestad Substation and Tunnel**, Norway
- **Nimble Datacentre**, Netherlands
- **Valea Juliu**, Romania
- **Stones**, Singapore
- **LNG Cogen 2**, Brunei
- **Shah Deniz BP**, Kazakhstan

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NEW PRODUCTS

Now featuring our newest cleat options to the market.

TETRAD CLEAT

Stainless steel 381 Series

Overview

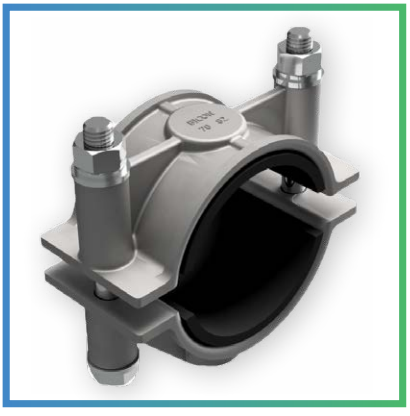
Manufactured from non-magnetic and corrosion resistant 316L stainless steel this new Tetrad Cleat is designed for single core cables laid in a quad formation and is an ideal solution for datacentre applications.

MULTICLEAT

378AB, 378JB & 378PF Series

Overview

The Prysmian Multicleat range now has a new and improved locking mechanism leading to quicker and easier installation times. All straps for the multicleat range are manufactured from non-magnetic 316L Stainless Steel. All these items are suitable for standard ladder and tray systems.



ALTUS CLEAT

370 Series (Aluminum)

Overview

The Altus Cleat range is suitable for Low, Medium and High Voltage cables This product group has options for fixed and swivel standoff solutions. The Single M16 thread can be used to attach directly to cable ladders, trays or structures.

CLEAT SELECTION

Cables can be mounted on supports in many ways, however if cable cleats are correctly used to do this they will satisfy the requirements of the NEC wiring code (NFPA 70), the IEEE 45.8 recommended practice guide for shipboard cable systems and international wiring code (IEC 60364-5-52).

IEEE 45.8 §6.8 Cable Support and retention

"Cables should be adequately secured against displacement due to vibration, axial, lateral and torsional forces and to prevent excessive movement due to fault current magnetic forces."

IEC 60364-5-52 §522.8.4

"Where the conductors or cables are not supported continuously due to the method of installation, they shall be supported by means at appropriate intervals in such a manner that the conductors or cables do not suffer damage by their own weight, or due to electro-dynamic forces resulting from short-circuit current."

Cable cleats also offer the following additional advantages:

- They facilitate a neat and orderly installation allowing cables to be used at their optimum ratings whilst maximizing the use of available space.
- They maintain cables in position making reworking easier and potentially safer.
- They provide restraint against short circuit forces.

This catalogue is designed to direct you to the most suitable Prysmian Components cleat for your application. The logic tree below shows the decisions that need to be made in order to specify the correct cleat for a specific installation.

CLEAT SELECTION

Choose the design, material and finish of the cleat to suit the application – taking these aspects into account.

Single cable

- **Support structure**, ladder/ support material, compatibility
- **Mechanical,** strength required
- **Special cables**, fire resistant/LS0H
- **Environment**, standard/ corrosive/high temperature
- **Cable size**

Trefoil

- **Support structure,** ladder/ support material, compatibility
- **Fault Level,** kA peak
- **Environment**, standard/ corrosive/high temperature
- **Liners**, HV/LS0H cables
- **Cable size**

The 1st decision is whether or not the arrangement is a single cable or a trefoil grouping:

- When fixing a single cable the cleats should be installed in line with the Prysmian recommended spacings table.
- When fixing trefoil groups the controlling factor becomes the system short circuit rating and cleats should be selected and spaced according to their short circuit performance.

RECOMMENDED SPACING

Single cables

Spacings of supports for cables in accessible positions

Maximum spacings of cable fixings

Overall diameter of cable*	Non-armoured thermosetting, thermoplastic or lead sheathed cables and non-armoured fire resisting cables				Single wire armoured cables including fire resisting armoured cable				Mineral insulated copper sheathed or aluminum sheathed cables			
	Horizontal† 2		Vertical† 3		Horizontal† 6		Vertical† 7		Horizontal† 8		Vertical† 9	
mm (inch)	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Not exceeding 9 (0.35)	250	10	400	16	-	-	-	-	600	24	800	30
Exceeding 9 (0.35) and not exceeding 15 (0.59)	300	12	400	16	350	14	450	18	900	36	1200	48
Exceeding 15 (0.59) and not exceeding 20 (0.79)	350	14	450	18	400	16	550	22	1500	60	2000	80
Exceeding 20 (0.79) and not exceeding 40 (1.57)	400	16	550	22	450	18	600	24	-	-	-	-
Exceeding 40 (1.57) and not exceeding 50 (1.97)	600	24	800	32	900	36	1100	42	-	-	-	-
Exceeding 50 (1.97) and not exceeding 60 (2.36)	750	30	1000	40	950	38	1100	42	-	-	-	-
Exceeding 60 (2.36) and not exceeding 70 (2.76)	900	36	1200	48	1000	40	1200	48	-	-	-	-
Exceeding 70 (2.76)	1000	40	1400	54	1200	48	1400	54	-	-	-	-

Note:

Fire resistant fixings should be used for fire resistant cables.

* For flat cables taken as the dimension of the major axis.

The spacings shown above apply to multi-core cables.

The spacing of fixings on single core cables in a.c. installations must take account of the magnitude of forces generated under fault conditions.

† The spacings stated for horizontal runs may be applied also to runs at an angle of more than 30° from the vertical.

For runs at an angle of 30° or less from the vertical, the vertical spacings are applicable.

CLEATING CABLES IN TREFOIL

When a short circuit fault occurs in a three phase system, there is at first a period of extreme asymmetry which is then followed by a steadier more symmetrical state. The degree of asymmetry depends on when in the cycle the fault is initiated and also the nature of the fault, e.g. three phase to earth. By convention, the “Peak” is the maximum current value achieved in the early asymmetrical period and it is at this point that the highest instantaneous force between the cables occurs.

IEC 61914:2021 provides a formula which enables us to calculate the maximum force on a cable conductor.

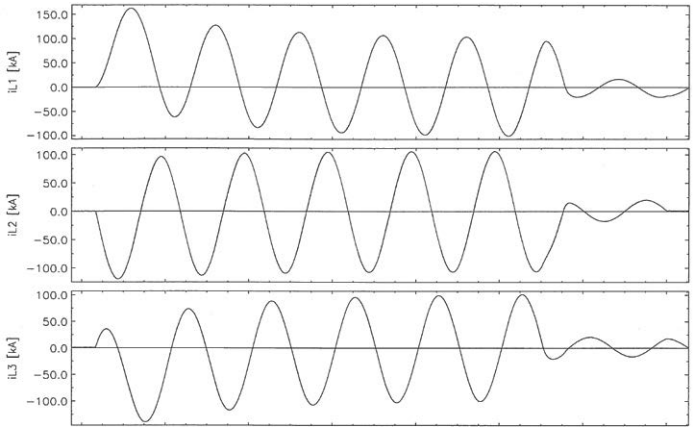
$$F_t = 0.17 \cdot i_p^2 / S$$

F_t is the maximum force on the cable conductor in a trefoil configuration for a three phase short circuit [N/m]

i_p is the peak short-circuit current [kA]

S is the centre to centre distance between two neighbouring conductors [m] (for Trefoil arrangements S = Cable Diameter)

Three phase short circuit plot **(B.7)**



Short circuit tests in accordance with IEC 61914:2021 are performed on the most critical cleat size within its range; the Formula (B.7) can then be used to calculate the maximum force generated during the test. This maximum force figure can then be used when specifying alternative configurations of cable size and fault current – calculating the theoretical Ft for the alternative configuration and ensuring that it is less than or equal to the as tested value.

TREFOIL CLEAT SPACING

Trefoil cleats that are required to withstand the high forces generated by high short circuit currents will often be spaced at very regular intervals – typically matching the commonly available cable ladder (i.e. 12” , 9” , 6” or 300mm , 225mm).

The maximum short circuit current values will be quoted with the test information for each design of trefoil cleat - if a system uses larger cables or has a lower fault current it may be possible to broaden these spacings (contact the Prysmian technical team).

APPROVALS, TESTING AND STANDARDS

For many years there were no International standards for cable cleats; Prysmian Components were actively involved in the creation of the European Standard and in progressing the standard through to it being published as the current international standard IEC 61914:2021. Our cleats have been tested by independent testing authorities and we also hold third party test reports for our FR and LSOH cleats detailing compliance for fire resistance and reaction to fire properties.

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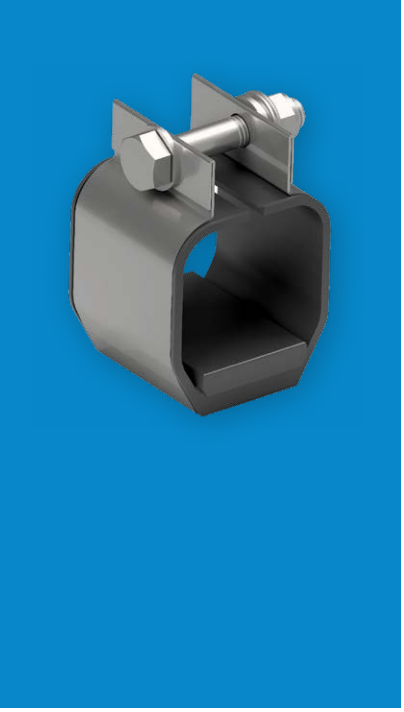


TETRAD CLEAT

381QC SERIES

Features

- Suitable for use with cable diameters 20 to 70mm
- Single or double bolt fixing
- Ergonomic design allows easy installation, with single tool tightening
- Manufactured from non-magnetic, corrosion resistant 316L stainless steel
- Liners are made from LSOH materials to compliment the cable sheath
- Suitable for single core cables laid in quad formation
- Suitable for standard and LSOH cable sheaths
- Designed to be used in most environments
- Suitable for use with all standard ladder and tray systems
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max									Weight (g)	Weight (lb)
381QC01	20	24	0.79	0.94	54	2.13	85	3.35	55	2.17	Centre hole only		208	0.46
381QC02	23	28	0.91	1.10	62	2.44	93	3.66	55	2.17	Centre hole only		228	0.50
381QC03	27	32	1.06	1.26	70	2.76	101	3.98	55	2.17	Centre hole only		249	0.55
381QC04	31	36	1.22	1.42	78	3.07	109	4.29	55	2.17	Centre hole only		269	0.59
381QC05	35	41	1.38	1.61	88	3.46	119	4.69	55	2.17	25	1.0	286	0.63
381QC06	40	46	1.57	1.81	98	3.86	129	5.08	55	2.17	25	1.0	311	0.69
381QC07	45	51	1.77	2.01	108	4.25	139	5.47	55	2.17	25	1.0	337	0.74
381QC08	50	58	1.97	2.28	122	4.80	153	6.02	55	2.17	50	2.0	367	0.81
381QC09	57	65	2.24	2.56	136	5.35	167	6.57	55	2.17	50	2.0	403	0.89
381QC010	64	70	2.52	2.76	146	5.75	177	6.97	55	2.17	50	2.0	433	0.95

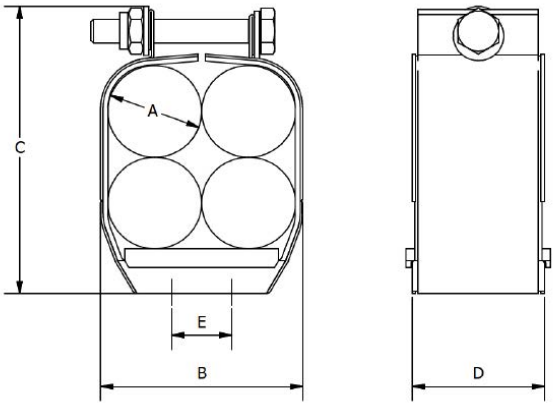
Method of Fixing

*All cleats have a single central fixing hole for a 12mm diameter fixing bolt. Styles 05 to 10 can also be fixed with 2 x 10mm bolts - the 10mm clearance holes are positioned either side of the central hole with centres as per dimension E.

Performance data

BS EN 61914:2021 (IEC 61914:2020)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-40°C to 60°C
Lateral Load	6.4.2	Orientation 2a: 2.9kN
		Orientation 2c: 0.2kN
Axial load	6.4.3	0.24kN (one mandrel)
		0.91kN (all 4 mandrels)
Impact Resistance	6.3.4	Heavy
Resistance to Corrosion	6.5.2	High, outdoor - wet conditions

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Resistant to electromechanical forces, withstanding more than one short circuit	6.4.5	52.3kA RMS, 115kA peak, spacing = 600mm, cable Ø = 36mm



SIRIUS CLEAT

379TC SERIES

Features

- Suitable for use with cable diameters 23 to 128mm
- Single or double bolt fixing
- Ergonomic design allows easy installation, with single tool tightening from the top side
- Manufactured from non-magnetic, corrosion resistant 316L stainless steel
- Liners are made from LSOH materials
- Suitable for single core cables laid in trefoil formation with high fault current requirements
- Suitable for standard and LSOH cable sheaths
- Can be used in harsh environments
- Suitable for use with all standard ladder and tray systems
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

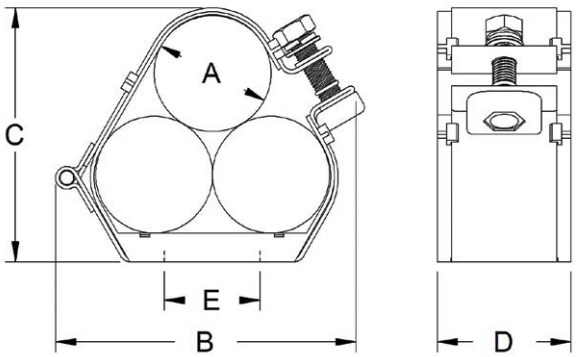
Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max			Max	Max					Weight (g)	Weight (lb)
379TC01	23	28	0.91	1.10	86	3.39	71	2.80	60	2.36	Centre hole only		500	1.10
379TC02	27	32	1.06	1.26	92	3.62	78	3.07	60	2.36	25	0.98	531	1.17
379TC03	30	35	1.18	1.38	98	3.86	84	3.31	60	2.36	25	0.98	558	1.23
379TC04	33	38	1.30	1.50	102	4.02	90	3.54	60	2.36	25	0.98	585	1.29
379TC05	36	42	1.42	1.65	108	4.25	97	3.82	60	2.36	25	0.98	624	1.38
379TC06	40	46	1.57	1.81	115	4.53	105	4.13	60	2.36	25	0.98	657	1.45
379TC07	44	50	1.73	1.97	120	4.72	112	4.41	60	2.36	25	0.98	693	1.53
379TC08	48	55	1.89	2.17	129	5.08	121	4.76	60	2.36	50	1.97	734	1.62
379TC09	51	58	2.01	2.28	133	5.24	127	5.00	60	2.36	50	1.97	764	1.68
379TC10	55	62	2.17	2.44	140	5.51	134	5.28	60	2.36	50	1.97	795	1.75
379TC11	59	66	2.32	2.60	145	5.71	142	5.59	60	2.36	50	1.97	831	1.83
379TC12	63	70	2.48	2.76	150	5.91	150	5.91	60	2.36	50	1.97	869	1.92
379TC13	67	74	2.64	2.91	157	6.18	157	6.18	60	2.36	75	2.95	905	2.00
379TC14	71	78	2.80	3.07	164	6.46	164	6.46	60	2.36	75	2.95	939	2.07
379TC15	74	82	2.91	3.23	172	6.77	172	6.77	60	2.36	75	2.95	975	2.15
379TC16	77	85	3.03	3.35	178	7.01	178	7.01	60	2.36	75	2.95	1010	2.23
379TC17	82	88	3.22	3.46	184	7.24	184	7.24	60	2.36	100	3.94	1046	2.30
379TC18	88	96	3.46	3.78	200	7.87	198	7.80	60	2.36	100	3.94	1081	2.38
379TC19	96	103	3.78	4.06	214	8.43	210	8.27	60	2.36	100	3.94	1117	2.46
379TC20	103	111	4.06	4.37	230	9.06	225	8.86	60	2.36	125	4.92	1152	2.54
379TC21	111	119	4.37	4.69	245	9.65	240	9.45	60	2.36	125	4.92	1188	2.62
379TC22	119	128	4.69	5.04	264	10.39	264	10.39	60	2.36	150	5.91	1223	2.70

Method of Fixing

All cleats have a single central fixing hole for a 12mm diameter fixing bolt. Styles 05 to 10 can also be fixed with 2 x 10mm bolts - the 10mm clearance holes are positioned either side of the central hole with centres as per dimension E.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to +60°C
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	88.6kA RMS, 195kA Peak, cleat spacing = 300mm, cable Ø = 38mm
Resistant to electromechanical forces, withstanding more than one short circuit	6.4.5	79.5kA RMS, 175kA Peak, cleat spacing = 300mm, cable Ø = 38mm
		77.3kA RMS, 170kA Peak, cleat spacing = 600mm, cable Ø = 38mm
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet conditions
Resistant to ultraviolet light	6.5.1.2	Pass



SIRIUS STRAP

379TS SERIES

Features

- Intermediate strap for use with Sirius 379TC cleats
- Suitable for use with cable diameters 23 to 128mm
- Ergonomic design allows easy installation, with single tool tightening from the top side
- Manufactured from non-magnetic, corrosion resistant 316L stainless steel
- Liners are made from LSOH materials
- Suitable for single core cables laid in trefoil formation with high fault current requirements
- Suitable for standard and LSOH cable sheaths
- Can be used in harsh environments
- Tested in accordance with BS EN 61914 (IEC 61914)

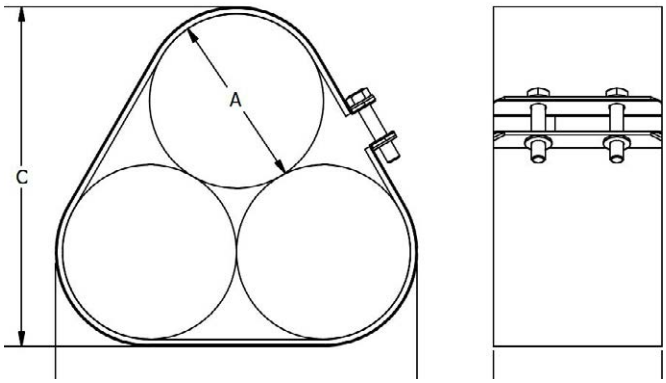
Technical data

Cable and Cleat Selection						
	Cable Diameter (A)					
	mm		inch			
Design Number	Min	Max	Min	Max	Weight (kg)	Weight (lb)
379TS00	23	25	0.91	0.98	0.27	0.60
379TS01	25	28	0.98	1.10	0.28	0.62
379TS02	28	32	1.10	1.26	0.29	0.64
379TS03	32	35	1.26	1.38	0.3	0.66
379TS04	33	38	1.30	1.50	0.31	0.68
379TS05	36	42	1.42	1.65	0.32	0.71
379TS06	40	46	1.57	1.81	0.34	0.75
379TS07	44	50	1.73	1.97	0.35	0.77
379TS08	48	55	1.89	2.17	0.37	0.82
379TS09	51	58	2.01	2.28	0.38	0.84
379TS10	55	62	2.17	2.44	0.39	0.86
379TS11	59	66	2.32	2.60	0.41	0.90
379TS12	63	70	2.48	2.76	0.42	0.93
379TS13	67	74	2.64	2.91	0.44	0.97
379TS14	71	78	2.80	3.07	0.46	1.01
379TS15	74	82	2.91	3.23	0.46	1.01
379TS16	77	85	3.03	3.35	0.48	1.06
379TS17	82	88	3.23	3.46	0.49	1.08
379TS18	88	96	3.46	3.78	0.52	1.15
379TS19	96	103	3.78	4.06	0.55	1.21
379TS20	103	111	4.06	4.37	0.58	1.28
379TS21	111	119	4.37	4.69	0.61	1.34
379TS22	119	128	4.69	5.04	0.65	1.43

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to +600°C
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	65.9kA RMS, 145kA peak, cleat-strap spacing = 300mm & 600mm, cable Ø = 38mm
Resistance to Corrosion	6.5.2.2	High, outdoor - wet conditions

*Resistance to electromechanical forces is applicable when used as an intermediate strap between 379TC sirius cleats. Straps cannot be used on their own.



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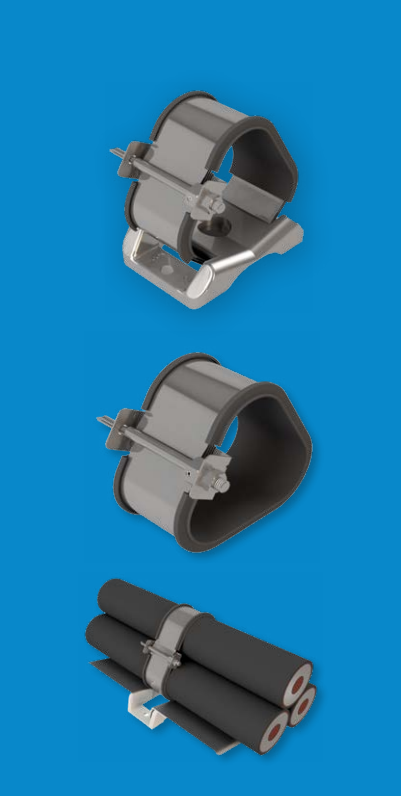


MULTICLEAT / MULTISTRAP SYSTEM

378AB SERIES

Technical data

Cable and Cleat Selection

Design Number				Trefoil Cable diameter (A)				Single Cable diameter (A)			
Aluminum base		Epoxy coated base		mm		inch		mm		inch	
Standard strap	Heavy Duty strap	Standard strap	Heavy Duty strap	Min	Max	Min	Max	Min	Max	Min	Max
378AB01	378AB51	378AD01	378AD51	24	34	0.94	1.34	36	65	1.42	2.56
378AB02	378AB52	378AD02	378AD52	30	41	1.18	1.61	60	85	2.36	3.35
378AB03	378AB53	378AD03	378AD53	37	47	1.46	1.85	80	90	3.15	3.54
378AB04	378AB54	378AD04	378AD54	43	54	1.69	2.13	85	110	3.35	4.33
378AB05	378AB55	378AD05	378AD55	50	60	1.97	2.36	-	-	-	-
378AB06	378AB56	378AD06	378AD56	56	67	2.20	2.64	-	-	-	-
378AB07	378AB57	378AD07	378AD57	63	73	2.48	2.87	-	-	-	-
378AB08	378AB58	378AD08	378AD58	69	80	2.72	3.15	-	-	-	-
378AB09	378AB59	378AD09	378AD59	-	-	-	-	105	120	4.13	4.72
-	378AB36	-	378AD36	72	85	2.83	3.35	-	-	-	-
-	378AB37	-	378AD37	82	95	3.23	3.74	-	-	-	-
-	378AB38	-	378AD38	92	105	3.62	4.13	-	-	-	-
-	378AB39	-	378AD39	102	115	4.02	4.53	-	-	-	-
-	378AB40	-	378AD40	112	125	4.41	4.92	-	-	-	-
-	378AB41	-	378AD41	122	135	4.80	5.31	-	-	-	-
-	378AB42	-	378AD42	132	145	5.20	5.71	132	145	5.20	5.20

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-40°C to +120°C
Resistant to electromechanical forces, with-standing one short circuit	6.4.4	Standard duty strap (2 wraps) 57.3kA RMS, 126kA Peak, cleat/strap = 600mm, cable Ø = 38mm
Resistant to electromechanical forces, with-standing more than one short circuit	6.4.5	Standard duty strap (2 wraps) 52.3kA RMS, 115kA Peak, cleat/strap = 600mm, cable Ø = 38mm
		Heavy duty strap (3 wraps) 55kA RMS, 121kA Peak, cleat/strap = 600mm, cable Ø = 38mm
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet unpoluted conditions
Resistant to ultraviolet light	6.5.1.2	Pass

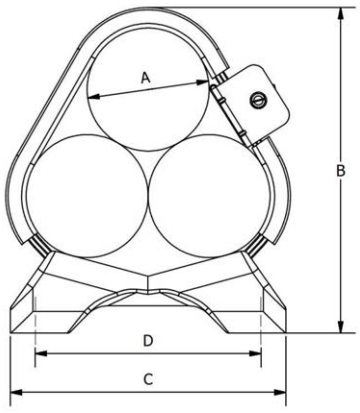
*Short circuit completed in conjunction with multistrap in a cleat-strap-cleat-strap arrangement

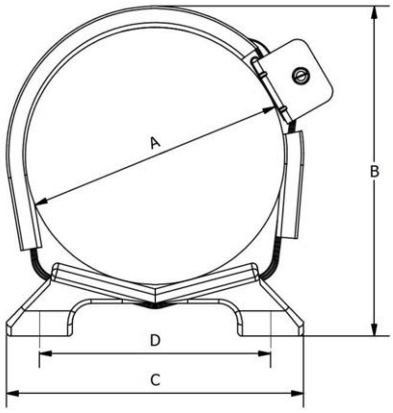
Multicleat and multistrap now use a new and improved locking mechanism making the installation quicker and easier. They also come with a disposable tensioning aid that was introduced in response to customer requests to improve the closure of the cleats and speed of installation. The adapter fits into the open end of the winding pin and is used with a standard 13mm socket wrench to tighten the strap. The same 13mm socket is then used to tighten the locking nut, finishing the installation.

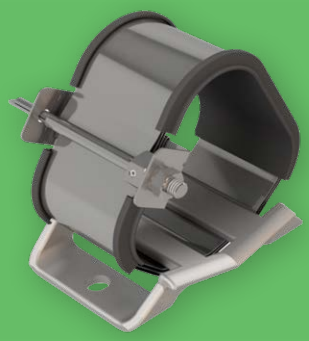
Features

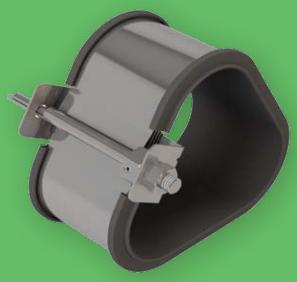
- Suitable for use with trefoil cable diameters 24 to 145mm
- Suitable for use with single cable diameters 36 to 120mm
- Large range take on each size
- All straps manufactured from non-magnetic 316L Stainless steel
- Plain aluminum bases - for normal industrial areas or outdoor unpolluted areas
- Epoxy coated aluminum versions available for harsher environments
- Liners are made from LS0H materials
- Suitable for single core cables laid in trefoil formation with high fault current capacities
- Suitable for use with all standard ladder and tray systems
- Suitable for groups of dissimilar cables
- Tested in accordance with BS EN 61914 (IEC 61914)

Dimensions										Multistrap	
B Trefoil		B Single		C		D					
mm	inch	mm	inch	mm	inch	mm	inch				
Max	Max	Max	Max					Weight (kg)	Weight (lb)	Standard strap	Heavy Duty strap
95	3.74	92	3.62	126	4.96	100	3.94	0.54	1.19	377AB01	377AB51
110	4.33	113	4.45	126	4.96	100	3.94	0.57	1.26	377AB02	377AB52
121	4.76	118	4.65	122	4.80	96	3.78	0.576	1.27	377AB03	377AB53
135	5.31	138	5.43	122	4.80	96	3.78	0.595	1.31	377AB04	377AB54
146	5.75	-	-	132	5.20	106	4.17	0.636	1.40	377AB05	377AB55
160	6.30	-	-	132	5.20	106	4.17	0.657	1.45	377AB06	377AB56
172	6.77	-	-	176	6.93	150	5.91	0.798	1.76	377AB07	377AB57
186	7.32	-	-	176	6.93	150	5.91	0.818	1.80	377AB08	377AB58
-	-	148	5.83	122	4.80	96	3.78	0.614	1.35	377AB09	377AB59
190	7.48	-	-	230	9.06	200	7.87	0.832	1.83	-	377AB36
210	8.27	-	-	230	9.06	200	7.87	0.864	1.90	-	377AB37
230	9.06	-	-	284	11.18	242	9.53	1.449	3.19	-	377AB38
250	9.84	-	-	284	11.18	242	9.53	1.480	3.26	-	377AB39
270	10.63	-	-	284	11.18	242	9.53	1.511	3.33	-	377AB40
290	11.42	-	-	284	11.18	242	9.53	1.542	3.40	-	377AB41
315	12.40	-	-	290	11.42	242	9.53	1.572	3.47	-	377AB42









MULTICLEAT / MULTISTRAP SYSTEM

378JB SERIES

Technical data

Cable and Cleat Selection

Design Number		Trefoil Cable diameter (A)				Single Cable diameter (A)			
Stainless Steel Base		mm		inch		mm		inch	
Standard strap	Heavy Duty strap	Min	Max	Min	Max	Min	Max	Min	Max
378JB01	378JB51	24	34	0.94	1.34	36	65	1.42	2.56
378JB02	378JB52	30	41	1.18	1.61	60	85	2.36	3.35
378JB03	378JB53	37	47	1.46	1.85	80	90	3.15	3.54
378JB04	378JB54	43	54	1.69	2.13	85	110	3.35	4.33
378JB05	378JB55	50	60	1.97	2.36	-	-	-	-
378JB06	378JB56	56	67	2.20	2.64	-	-	-	-
378JB07	378JB57	63	73	2.48	2.87	-	-	-	-
378JB08	378JB58	69	80	2.72	3.15	-	-	-	-
378JB09	378JB59	-	-	-	-	105	120	4.13	4.72
-	378JB36	72	85	2.83	3.35	-	-	-	-
-	378JB37	82	95	3.23	3.74	-	-	-	-
-	378JB38	92	105	3.62	4.13	-	-	-	-
-	378JB39	102	115	4.02	4.53	-	-	-	-
-	378JB40	112	125	4.41	4.92	-	-	-	-
-	378JB41	122	135	4.80	5.31	-	-	-	-
-	378JB42	132	145	5.20	5.71	-	-	-	-

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-40°C to +120°C
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	Heavy Duty strap (3 wraps) 65.9kA RMS, 145kA Peak, cleat/strap = 600mm cable Ø = 38mm
		Heavy Duty strap (3 wraps) 60.4kA RMS, 133kA Peak, cleat/strap = 900mm cable Ø = 38mm
Resistant to electromechanical forces, with-standing more than one short circuit	6.4.5	Heavy Duty strap (3 wraps) 61.8kA RMS, 136kA Peak, cleat/strap = 600mm cable Ø = 38mm
		Heavy Duty strap (3 wraps) 55kA RMS, 121kA Peak, cleat/strap = 900mm cable Ø = 38mm
Resistance to Corrosion	6.5.2.2	High, outdoor - wet unpolluted conditions
Resistant to ultraviolet light	6.5.1.2	Pass

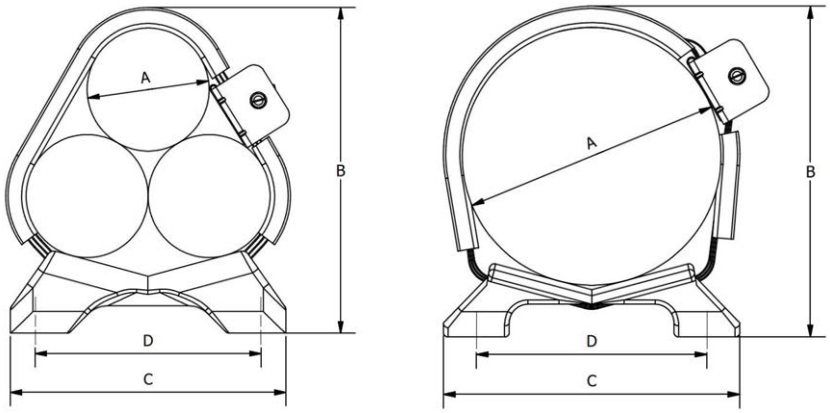
*Short circuit completed in conjunction with multistrap in a cleat-strap-cleat-strap arrangement.

Multicleat and multistrap now use a new and improved locking mechanism making the installation quicker and easier. They also come with a disposable tensioning aid that was introduced in response to customer requests to improve the closure of the cleats and speed of installation. The adapter fits into the open end of the winding pin and is used with a standard 13mm socket wrench to tighten the strap. The same 13mm socket is then used to tighten the locking nut, finishing the installation.

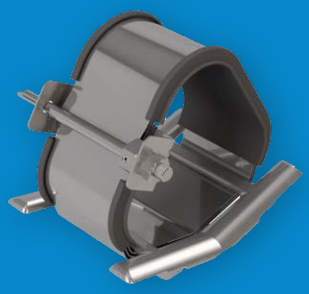
Features

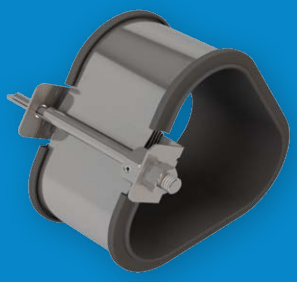
- Suitable for use with trefoil cable diameters 24 to 145mm
- Suitable for use with single cable diameters 36 to 120mm
- Large range take on each size
- All straps manufactured from non-magnetic 316L stainless teel
- Plain Aluminum bases - for normal industrial areas or outdoor unpolluted areas
- Epoxy coated Aluminum versions available for harsher environments
- Liners are made from LS0H materials
- Suitable for single core cables laid in trefoil formation with high fault current capacities
- Suitable for use with all standard ladder and tray systems
- Suitable for groups of dissimilar cables
- Tested in accordance with BS EN 61914 (IEC 61914)

Dimensions										Multistrap	
B Trefoil		B Single		C		D					
mm	inch	mm	inch	mm	inch	mm	inch				
Max	Max	Max	Max					Weight (kg)	Weight (lb)	Standard strap	Heavy Duty strap
95	3.74	92	3.62	126	4.96	100	3.94	0.54	1.19	377AB01	377AB51
110	4.33	113	4.45	120	4.72	100	3.94	0.69	1.52	377AB02	377AB52
121	4.76	118	4.65	126	4.96	100	3.94	0.78	1.73	377AB03	377AB53
135	5.31	138	5.43	126	4.96	100	3.94	0.80	1.77	377AB04	377AB54
146	5.75	-	-	132	5.20	100	3.94	0.82	1.82	377AB05	377AB55
160	6.30	-	-	132	5.20	100	3.94	0.85	1.86	377AB06	377AB56
172	6.77	-	-	152	5.98	125	4.92	1.02	2.25	377AB07	377AB57
186	7.32	-	-	152	5.98	125	4.92	1.04	2.30	377AB08	377AB58
-	-	148	5.83	126	4.96	100	3.94	0.82	1.81	377AB09	377AB59
190	7.48	-	-	230	9.06	200	7.87	1.45	3.21	-	377AB36
210	8.27	-	-	230	9.06	200	7.87	1.49	3.28	-	377AB37
230	9.06	-	-	230	9.06	200	7.87	1.52	3.35	-	377AB38
250	9.84	-	-	290	11.42	250	9.84	2.55	5.62	-	377AB39
270	10.63	-	-	290	11.42	250	9.84	2.58	5.69	-	377AB40
290	11.42	-	-	290	11.42	250	9.84	2.61	5.76	-	377AB41
315	12.40	-	-	290	11.42	250	9.84	2.64	5.83	-	377AB42



The planet's pathways





MULTICLEAT / MULTISTRAP SYSTEM

378PF SERIES

Technical data

Cable and Cleat Selection

Design Number		Trefoil Cable Diameter (A)				Single Cable Diameter (A)			
Stainless steel base (Single bolt)		mm		inch		mm		inch	
Standard strap	Heavy Duty strap	Min	Max	Min	Max	Min	Max	Min	Max
378PF01	378PF51	24	34	0.94	1.34	36	65	1.42	2.56
378PF02	378PF52	30	41	1.18	1.61	60	85	2.36	3.35
378PF03	378PF53	37	47	1.46	1.85	80	90	3.15	3.54
378PF04	378PF54	43	54	1.69	2.13	85	110	3.35	4.33
378PF05	378PF55	50	60	1.97	2.36	-	-	-	-
378PF06	378PF56	56	67	2.20	2.64	-	-	-	-
378PF07	378PF57	63	73	2.48	2.87	-	-	-	-
378PF08	378PF58	69	80	2.72	3.15	-	-	-	-
378PF09	378PF59	-	-	-	-	105	120	4.13	4.72

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-40°C to +120°C
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	Heavy duty strap (3 wraps) 61.3kA RMS, 135kA Peak, cleat/ strap = 600mm, cable Ø = 38mm
Resistance to Corrosion	6.5.2.2	High, Outdoor - wet unpolluted conditions
Resistant to ultraviolet light	6.5.1.2	Pass

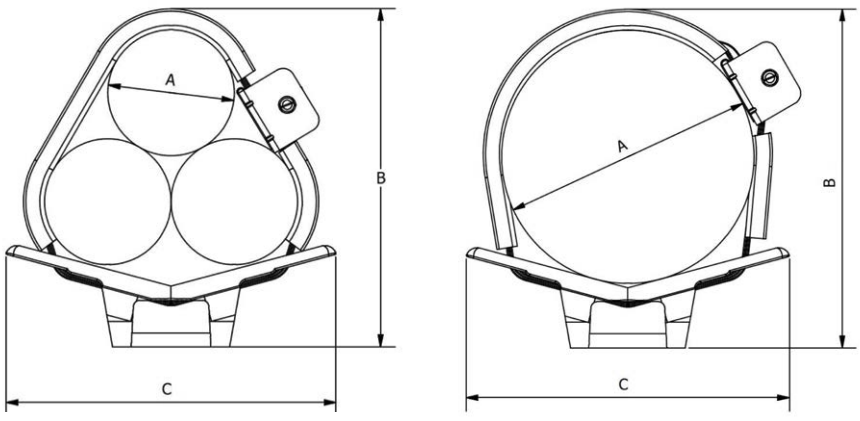
*Short circuit completed in conjunction with multistrap in a cleat-strap-cleat arrangement

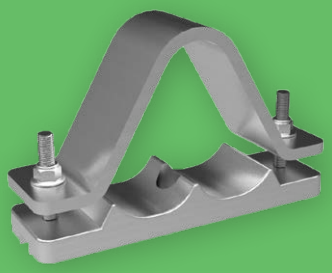
Multicleat and multistrap now use a new and improved locking mechanism making the installation quicker and easier. They also come with a disposable tensioning aid that was introduced in response to customer requests to improve the closure of the cleats and speed of installation. The adapter fits into the open end of the winding pin and is used with a standard 13mm socket wrench to tighten the strap. The same 13mm socket is then used to tighten the locking nut, finishing the installation.

Features

- Suitable for use with single cable diameters 36 to 120mm
- Large range take on each size
- All straps manufactured from non-magnetic 316L Stainless Steel
- Stainless steel base for harsher environments
- Single fixing base for applications where flexibility may be required
- Operating temperatures -40°C to +120°C
- Liners are made from LS0H materials
- Suitable for single core cables laid in trefoil formation with high fault current capacities
- Suitable for use with all standard ladder and tray systems
- Suitable for groups of dissimilar cables
- Tested in accordance with BS EN 61914 (IEC 61914)

Dimensions								Multistrap	
B Trefoil		B Single		C					
mm	inch	mm	inch	mm	inch				
Max	Max	Max	Max			**Weight (kg)**	**Weight (lb)**	Standard strap	Heavy Duty strap
99	3.90	96	3.78	76	2.99	0.519	1.14	377AB01	377AB51
113	4.45	116	4.57	85	3.35	0.538	1.19	377AB02	377AB52
121	4.76	118	4.65	104	4.09	0.622	1.37	377AB03	377AB53
135	5.31	138	5.43	110	4.33	0.641	1.41	377AB04	377AB54
147	5.79	-	-	120	4.72	0.701	1.54	377AB05	377AB55
161	6.34	-	-	134	5.28	0.722	1.59	377AB06	377AB56
173	6.81	-	-	146	5.75	0.972	2.14	377AB07	377AB57
187	7.36	-	-	160	6.30	0.992	2.19	377AB08	377AB58
-	-	148	5.83	120	4.72	0.660	1.45	377AB09	377AB59





ORION CLEAT & STRAP

376 SERIES

Features

- Suitable for use with cable diameters 62-186mm
- Suitable for use on LV, MV & HV cable designs
- Single or two bolt fixing
- Designed for use with larger diameter single core cables laid in trefoil formation
- Deep section cast bases aid cable installation
- Can be supplied with rubber liners
- Profiled versions are available to meet specific design requirements
- Tested in accordance with EN 50368 and BS EN 61914 (IEC 61914)

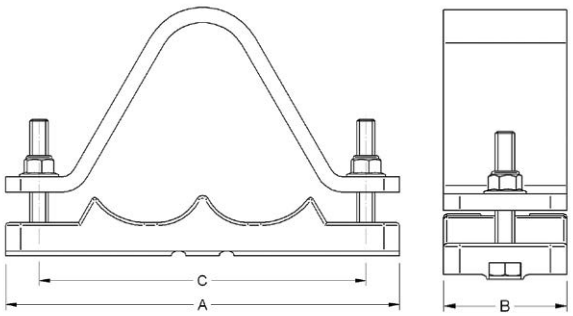
Technical data

Cable and Cleat Selection						Dimensions								
Design Number		Cable Diameter (A)				A		B		C				
		mm		inch		mm	inch	mm	inch	mm	inch			
Standard	Epoxy coated	Min	Max	Min	Max							Weight (kg)	Weight (lb)	Fixing Size
376TR06	376TE06	62	75	2.44	2.95	260	10.24	216	8.50	216	8.50	2.484	5.48	M12
376TR07	376TE07	75	90	2.95	3.54	295	11.61	251	9.88	251	9.88	3.326	7.33	M12
376TR08	376TE08	90	107	3.54	4.21	340	13.39	396	15.59	396	15.59	4.168	9.19	M12
376TR09	376TE09	107	129	4.21	5.08	390	15.35	346	13.62	346	13.62	4.951	10.92	M12
376TR10	376TE10	129	155	5.08	6.10	450	17.72	406	15.98	406	15.98	9.5	20.94	M12
376TR11	376TE11	155	186	6.10	7.32	525	20.67	481	18.94	481	18.94	11.536	25.43	M12

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.1	Metallic
Operating Temperature	6.2	-40°C to +120°C
Resistance to Corrosion	6.5.2.2	High, outdoor - wet conditions

EN 50368:2003	Clause	Classification
Resistant to electromechanical forces, withstanding more than one short circuit	6.3.2	31 kA RMS, 77.5 kA Peak, cleat spacing = 900mm, cable Ø = 103mm



STRAP

Intermediate Short Circuit Straps manufactured from 316L Stainless steel to suit specific cable sizes (includes 5mm (0.2") rubber liner.

Technical data

Design Number	Cable Diameter			
	mm		inch	
	Min	Max	Min	Max
376TS01	72	78	2.83	3.07
376TS02	79	85	3.11	3.35
376TS03	86	92	3.39	3.62
376TS04	93	99	3.66	3.90
376TS05	100	106	3.94	4.17
376TS06	107	113	4.21	4.45
376TS07	114	120	4.49	4.72
376TS08	121	127	4.76	5.00
376TS09	128	134	5.04	5.28
376TS10	135	141	5.31	5.55
376TS11	142	148	5.59	5.83
376TS12	149	155	5.87	6.10

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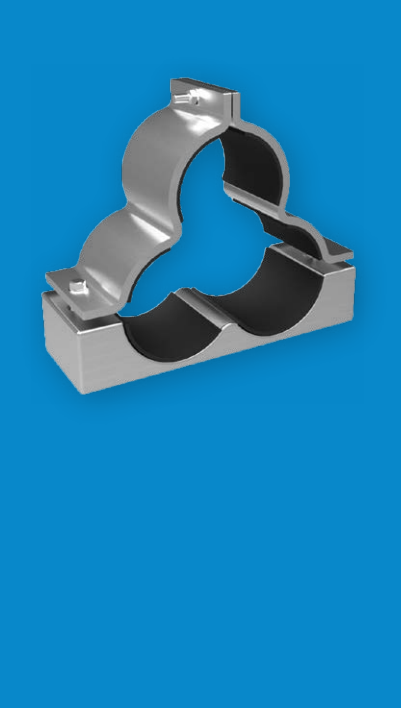


ORION CLEAT SHAPED

376 SERIES

The orion cable cleat provides the strongest support for cables laid in trefoil formation. Suitable for LV, MV and HV cable designs, the orion cleat features deep cast bases to aid easy cable installation.

Features

- Suitable for use with cable diameters 85-155mm
- Suitable for use on LV, MV & HV cable designs
- Designed for use with larger diameter single core cables laid in trefoil formation
- Deep section cast bases aid cable installation
- Tested in accordance with EN 50368:2003

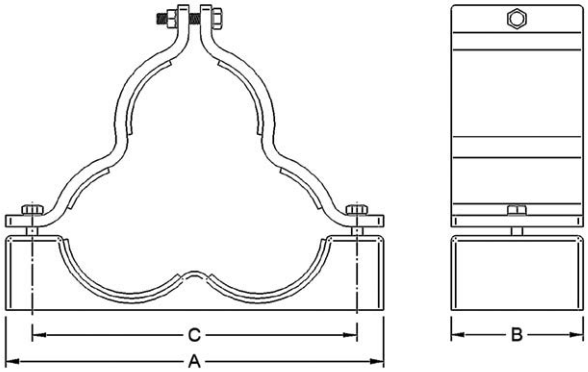
Technical data

Cable and Cleat Selection						Dimensions								
		Cable Diameter (A)				A		B		C				
Design Number		mm		inch		mm	inch	mm	inch	mm	inch			
Standard	Epoxy coated	Min	Max	Min	Max							Weight (kg)	Weight (lb)	Fixing Size
376SR05	376SE05	85	95	3.35	3.74	320	12.60	260	10.24	100	3.94	3.4	7.50	M12
376SR06	376SE06	95	105	3.74	4.13	340	13.39	280	11.02	110	4.33	4.2	9.26	M12
376SR07	376SE07	105	115	4.13	4.53	360	14.17	300	11.81	120	4.72	4.9	10.80	M12
376SR08	376SE08	115	125	4.53	4.92	380	14.96	324	12.76	130	5.12	5.5	12.13	M12
376SR09	376SE09	125	135	4.92	5.31	400	15.75	344	13.54	140	5.51	6	13.23	M12
376SR10	376SE10	135	145	5.31	5.71	420	16.54	370	14.57	150	5.91	6.7	14.77	M12
376SR11	376SE11	145	155	5.71	6.10	450	17.72	390	15.35	160	6.30	7.6	16.76	M12

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-40°C to +105°C
Impact Resistance	6.3	Medium
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	63kA RMS, 164kA Peak, cleat spacing = 2000mm, cable Ø = 151mm
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet conditions

* Technical Information subject to change without notice



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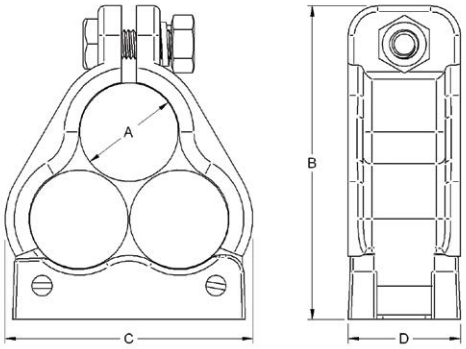
LIBRA CLEAT

376AC SERIES

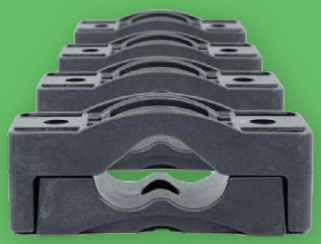
Features

- Suitable for use with cable diameters 24-76mm
- Suitable for single core cables laid in trefoil
- Can be used with all types of cable routes
- Supplied complete with top fastening
- Plain finish for indoor dry normal industrial use or outdoor unpolluted areas
- Epoxy coated for more hostile conditions
- Operating temperature -60°C to +100°C
- Suitable for use at a maximum system fault level of 30kA rms



Technical data

Cable and Cleat Selection						Dimensions							
Design Number		Cable Diameter (A)				B		D		C			
		mm		inch		mm	inch	mm	inch	mm	inch		
Standard	Epoxy Coated	Min	Max	Min	Max							Weight (g)	Weight (lb)
376AC01	376AE01	24	25	0.94	0.98	94	3.70	38	1.50	75	2.95	234	0.52
376AC02	376AE02	25	27	0.98	1.06	97	3.82	38	1.50	75	2.95	241	0.53
376AC03	376AE03	27	28	1.06	1.10	100	3.94	38	1.50	75	2.95	248	0.55
376AC04	376AE04	28	30	1.10	1.18	103	4.06	38	1.50	76	2.99	255	0.56
376AC05	376AE05	30	32	1.18	1.26	105	4.13	38	1.50	79	3.11	269	0.59
376AC06	376AE06	32	34	1.26	1.34	106	4.17	38	1.50	83	3.27	284	0.63
376AC07	376AE07	34	35	1.34	1.38	109	4.29	38	1.50	86	3.39	291	0.64
376AC08	376AE08	35	36	1.38	1.42	113	4.45	38	1.50	89	3.50	298	0.66
376AC09	376AE09	36	38	1.42	1.50	116	4.57	38	1.50	92	3.62	305	0.67
376AC10	376AE10	38	40	1.50	1.57	119	4.69	38	1.50	95	3.74	315	0.69
376AC11	376AE11	40	41	1.57	1.61	122	4.80	38	1.50	99	3.90	319	0.70
376AC12	376AE12	41	43	1.61	1.69	124	4.88	38	1.50	105	4.13	326	0.72
376AC13	376AE13	43	44	1.69	1.73	127	5.00	38	1.50	108	4.25	340	0.75
376AC14	376AE14	44	46	1.73	1.81	130	5.12	38	1.50	112	4.41	354	0.78
376AC15	376AE15	46	48	1.81	1.89	133	5.24	38	1.50	114	4.49	361	0.80
376AC16	376AE16	48	49	1.89	1.93	137	5.39	38	1.50	118	4.65	369	0.81
376AC17	376AE17	49	51	1.93	2.01	140	5.51	38	1.50	121	4.76	376	0.83
376AC18	376AE18	51	53	2.01	2.09	143	5.63	38	1.50	124	4.88	383	0.84
376AC19	376AE19	53	54	2.09	2.13	146	5.75	38	1.50	127	5.00	390	0.86
376AC20	376AE20	54	55.5	2.13	2.19	155	6.10	44	1.73	133	5.24	503	1.11
376AC21	376AE21	55.5	57	2.19	2.24	158	6.22	44	1.73	137	5.39	517	1.14
376AC22	376AE22	57	59	2.24	2.32	160	6.30	44	1.73	141	5.55	588	1.30
376AC23	376AE23	59	60	2.32	2.36	163	6.42	44	1.73	145	5.71	602	1.33
376AC24	376AE24	60	62	2.36	2.44	165	6.50	44	1.73	148	5.83	617	1.36
376AC25	376AE25	62	63.5	2.44	2.50	168	6.61	44	1.73	152	5.98	631	1.39
376AC26	376AE26	63.5	65	2.50	2.56	172	6.77	44	1.73	156	6.14	645	1.42
376AC27	376AE27	65	66.5	2.56	2.62	176	6.93	44	1.73	160	6.30	666	1.47
376AC28	376AE28	66.5	68	2.62	2.68	178	7.01	44	1.73	164	6.46	687	1.51
376AC29	376AE29	68	70	2.68	2.76	181	7.13	44	1.73	168	6.61	716	1.58
376AC30	376AE30	70	71.5	2.76	2.81	187	7.36	44	1.73	171	6.73	745	1.64
376AC31	376AE31	71.5	73	2.81	2.87	190	7.48	44	1.73	175	6.89	758	1.67
376AC32	376AE32	73	74.5	2.87	2.93	193	7.60	44	1.73	179	7.05	773	1.70
376AC33	376AE33	74.5	76	2.93	2.99	197	7.76	44	1.73	183	7.20	787	1.74



POLYAMIDE TREFOIL CLEAT

375AB SERIES

Features

- Suitable for cables in trefoil groups - withcable diameters from 27 - 118mm
- For mounting low, medium and high voltage cables
- Manufactured from high strength glass filled Polyamide 6
- High range take - able to accommodate loosely toleranced cables
- Non magnetic
- Halogen free and flame retardant - ideal for tunnels and buildings V-0 (UL94)
- Weather Resistant - UV, Ozone and frost
- Resistant to oils, acids, salts & other aggressive materials
- Resistant to Ionizing radiation - ideal for use in nuclear power plants
- Fully recyclable
- Stackable
- Approved to IEC 61914:2009
- Operation temperatures -40°C to +125°C(with short periods at +225°C)
- Life expectancy 40+ years

Technical data

Cable and Cleat Selection					Dimensions																	
	Cable Diameter (A)				B		C		D		E		F				G		H		I	
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Design Number	Min	Max	Min	Max									Min	Max	Min	Max						
375AB01	27	38	1.06	1.50	180	7.09	75	2.95	125	4.92	15	0.59	63	90	2.48	3.54	12	0.47	35	1.38	16.5	0.65
375AB02	38	51	1.50	2.01	195	7.68	80	3.15	145	5.71	15	0.59	84	115	3.31	4.53	16	0.63	45	1.77	20	0.79
375AB03	51	69	2.01	2.72	220	8.66	85	3.35	170	6.69	15	0.59	109	150	4.29	5.91	21	0.83	58	2.28	26	1.02
375AB04	69	90	2.72	3.54	252	9.92	90	3.54	215	8.46	15	0.59	134	185	5.28	7.28	29	1.14	72	2.83	30	1.18
375AB05	90	118	3.54	4.65	321	12.64	100	3.94	270	10.63	15	0.59	180	250	7.09	9.84	27	1.06	89	3.50	33	1.30
375AB06	118	150	4.65	5.91	400	15.75	110	4.33	340	13.39	15	0.59	221	310	8.70	12.20	37	1.46	110	4.33	40	1.57

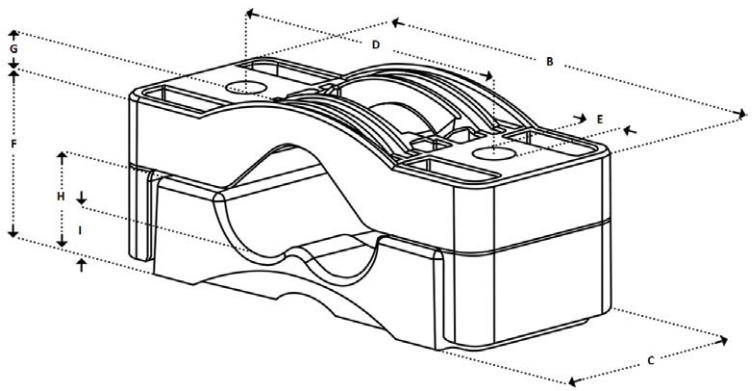
Method of Fixing

All sizes have stud clearance holes of 15.5mm, allowing fixing sizes M10, M12 & M14 to be used.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-Metalic
Operating Temperature	6.2	-40°C to 105°C
Resistance to short circuit	6.4.5	375AB01 = 28kA RMS, 72kA peak, 375AB02 = 33kA RMS, 85kA peak, 375AB03 = 38kA RMS, 98kA peak, 375AB04 = 44kA RMS, 114kA peak, 375AB05 = 51kA RMS, 132kA peak, Cleat spacing = 900mm for all sizes

*Technical Information subject to change without notice.



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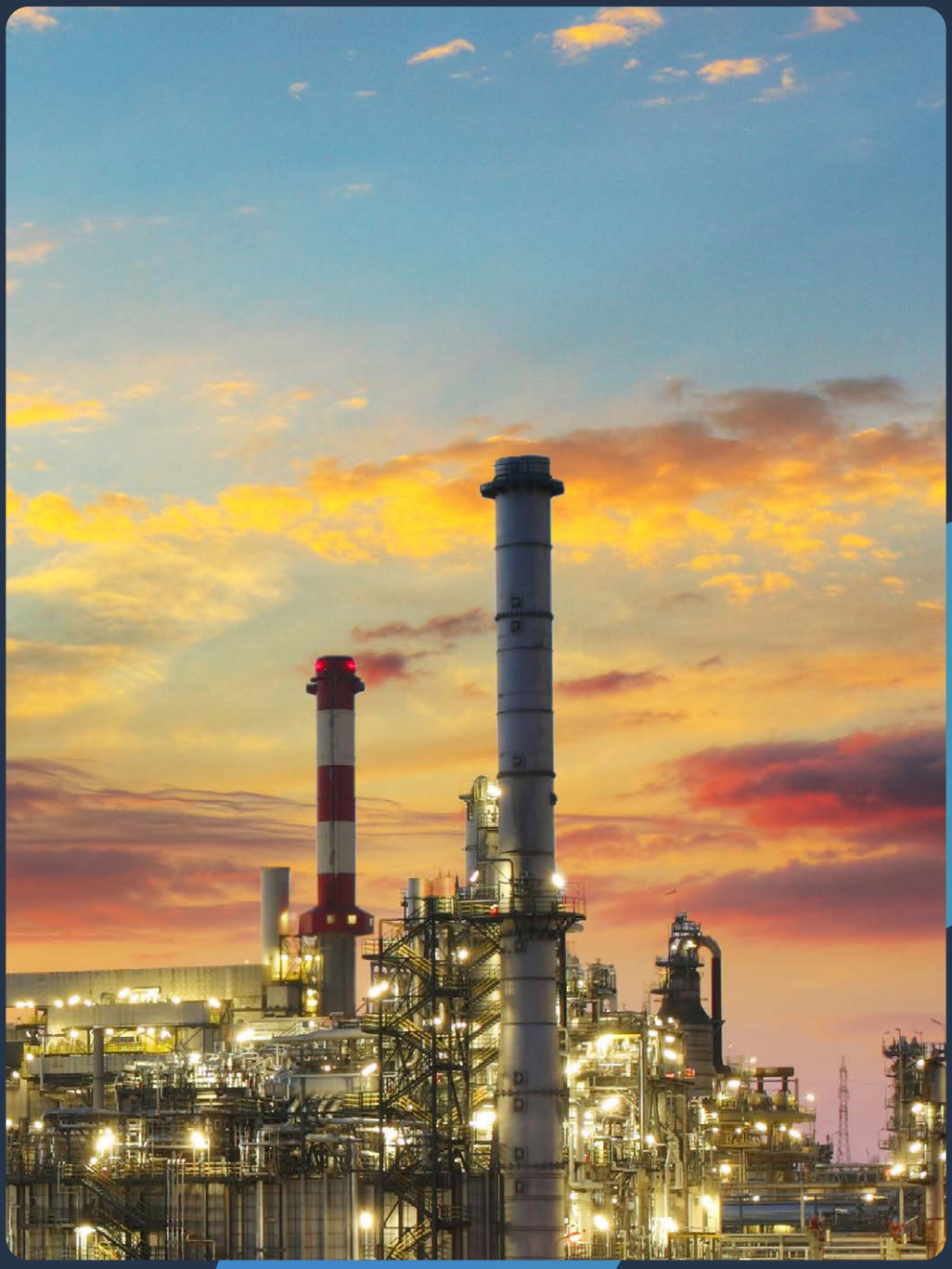

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ALTUS CLEAT

370 SERIES (ALUMINUM)

Features

- Suitable for use with cable diameters 50 to 152mm
- Manufactured from aluminum alloy
- Two piece cleat design
- Single M16 thread be used to attach directly to cable ladder, tray or structure
- Can be used in an extended assembly
- Suitable for low, medium and high voltage cables
- Can be used for all types of cable routes
- Cleat supplied with 5mm rubber liner as standard
- Tested in accordance withIEC 61914:2015

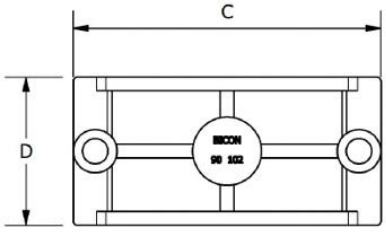
Technical data

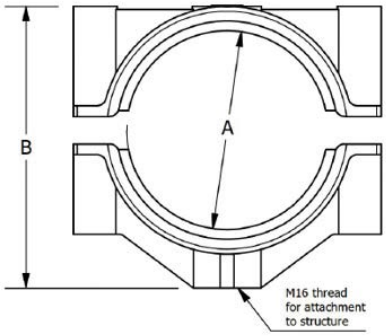
Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max	Max	Max							Weight (g)	Weight (lb)
370FA10	50	62	1.97	2.44	104	4.09	104	4.09	50	1.97	41.3	1.63	760	1.68
370FA11	60	72	2.36	2.83	114	4.49	136	5.35	64	2.52	57.3	2.26	1185	2.61
370FA12	70	82	2.76	3.23	116	4.57	140	5.51	64	2.52	59.3	2.33	1081	2.38
370FA13	80	92	3.15	3.62	134.5	5.30	152	5.98	76	2.99	65.3	2.57	1357	2.99
370FA14	90	102	3.54	4.02	144.5	5.69	156	6.14	76	2.99	67.3	2.65	1485	3.27
370FA15	100	112	3.94	4.41	154.5	6.08	175	6.89	100	3.94	75.9	2.99	2254	4.97
370FA16	110	122	4.33	4.80	165.5	6.52	178	7.01	100	3.94	77.4	3.05	2167	4.78
370FA17	120	132	4.72	5.20	175.5	6.91	200	7.87	120	4.72	88.4	3.48	3873	8.54
370FA18	130	142	5.12	5.59	185.5	7.30	206	8.11	120	4.72	91.4	3.60	4310	9.50
370FA19	140	152	5.51	5.98	196	7.72	215	8.46	150	5.91	95.9	3.78	5071	11.18

* All fixings Bright Zinc Plated (BZP)

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to 105°C
Impact Resistance	6.3.4	Heavy
Lateral load	6.4.2	Orientation 2a: 12.6 - 15.8kN
		Orientation 2c: 7.2 - 8.2kN
Axial load	6.4.3	1 - 3.5kN
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	Cleat mounted on fixed base with 300mm arm: 43.8kA RMS, 100kA Peak, cable spacing = 250mm, cleat spacing = 2000mm, cable Ø = 74.4mm,
Resistant to electromechanical forces, withstanding more than one short circuit	6.4.5	Cleat only: 44.3 RMS, 100kA Peak, cable spacing = 250mm, cleat spacing = 2000mm, cable Ø = 74.4mm
		Cleat mounted on fixed base with 300mm arm: 25.8kA RMS, 64.4kA Peak, cable spacing = 250mm, cleat spacing = 2000mm, cable Ø = 74.4mm
		Cleat mounted on swivel base with 300mm arm: 25.8kA RMS, 64.4kA Peak, cable spacing = 250mm, cleat spacing = 2000mm, cable Ø = 74.4mm
Resistance to UV	6.5.1	Resistant to ultraviolet light
Resistance to Corrosion	6.5.2.2	High, outdoor - wet conditions
Needle-flame test	10.1	>120s





*Technical Information subject to change without notice.

ALTUS CLEAT

ARMS AND BASES (ALUMINUM)

Features

- Used with Altus cleats to provide a flexible installation
- Fixed bases, swivel bases, and arms can be combined to space the cleat away from the support structure
- Arms can be cut to length to suit offset requirements
- Manufactured from aluminum alloy
- Tested as a full system to IEC 61914:2015

Fixed base

- Allows for perpendicular installation
- Uses 4 x M10 fixings to secure to surface
- Arm slides into base to allow fine adjustment of final installation

Swivel base

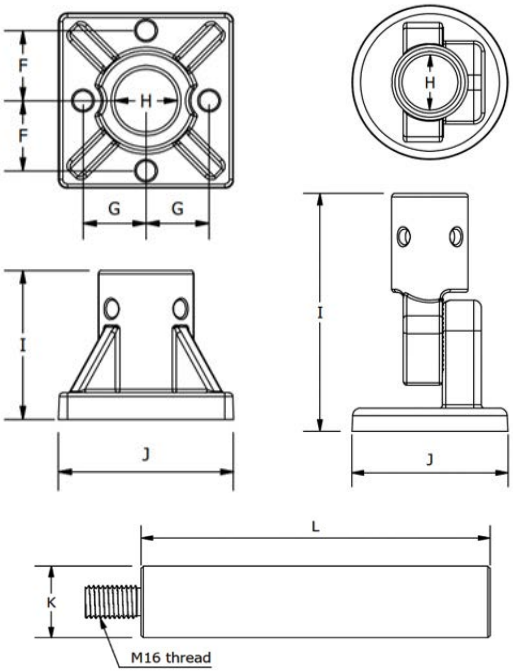
- Allows up to 45° variable angle in any direction
- Uses single M16 fixing to secure to surface
- Arm slides into base to allow fine adjustment of final installation

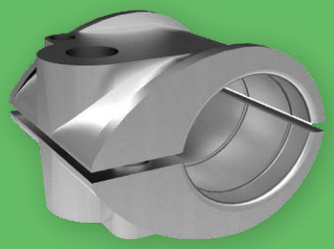
Technical data

Base		Dimensions												
		F		B		H		I		J				
Design Number		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Weight (g)	Weight (lb)	Fixing Size
3702102	Fixed	40	1.57	36	1.42	35.9	1.41	85	3.35	100	3.94	70	0.15	4 x M10
3702105	Swivel	-	-	-	-	35.9	1.41	154	6.06	100	3.94	110	0.24	M16

*All fixings Bright Zinc Plated (BZP).

Arms	Dimensions					
	K		L			
Design Number	mm	inch	mm	inch	Weight (g)	Weight (lb)
37021070	34.9	1.37	70	2.76	72	0.16
37021100	34.9	1.37	100	3.94	100	0.22
37021150	34.9	1.37	150	5.91	147	0.32
37021200	34.9	1.37	200	7.87	196	0.43
37021300	34.9	1.37	300	11.81	292	0.64
37021400	34.9	1.37	400	15.75	387	0.85
37021500	34.9	1.37	500	19.69	483	1.06
37021600	34.9	1.37	600	23.62	579	1.28





CLAW CLEAT

370 SERIES (ALUMINUM)

Features

- Suitable for use with cable diamteters 10 to 51mm
- Manufactured from aluminum alloy
- Two-piece, single fixing design
- Can be stacked to a maximum of three on one fixing
- Packing pieces to be used in between cleats when stacking
- Can be used for all types of cable routes
- Plain finish - for normal industrial areas or outdoor unpolluted areas
- Epoxy coated versions available for harsher environments
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

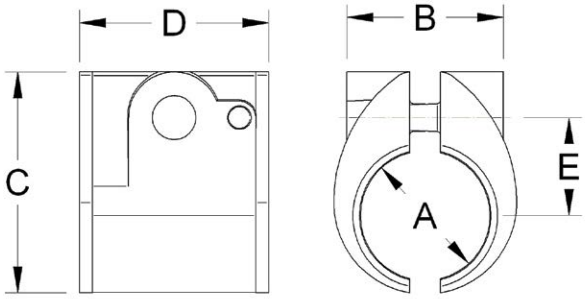
Cable and Cleat Selection						Dimensions										
		Cable Diameter (A)				B		C		D		E				
Design Number		mm		inch		mm	inch	mm	inch	mm	inch	mm	inch			
Standard	Epoxy Coated	Min	Max	Min	Max									Weight (g)	Weight (lb)	Stud Size
370BA01	370BB01	10	13	0.39	0.51	21	0.83	38	1.50	46	1.81	16	0.63	60	0.13	M10
370BA02	370BB02	13	16	0.51	0.63	21	0.83	38	1.50	46	1.81	16	0.63	50	0.11	M10
370BA03	370BB03	16	19	0.63	0.75	24	0.94	41	1.61	46	1.81	18	0.71	60	0.13	M10
370BA04	370BB04	19	22	0.75	0.87	27	1.06	44	1.73	46	1.81	19	0.75	70	0.15	M10
370BA05	370BB05	22	25	0.87	0.98	30	1.18	48	1.89	46	1.81	21	0.83	80	0.17	M10
370BA06	370BB06	25	32	0.98	1.26	37	1.46	54	2.13	46	1.81	24	0.94	90	0.19	M10
370BA07	370BB07	32	38	1.26	1.50	43	1.69	60	2.36	46	1.81	27	1.06	110	0.24	M10
370BA08	370BB08	38	44	1.50	1.73	49	1.93	67	2.64	46	1.81	30	1.18	120	0.26	M10
370BA09	370BB09	44	51	1.73	2.01	56	2.20	73	2.87	46	1.81	34	1.34	150	0.33	M10

Method of Fixing

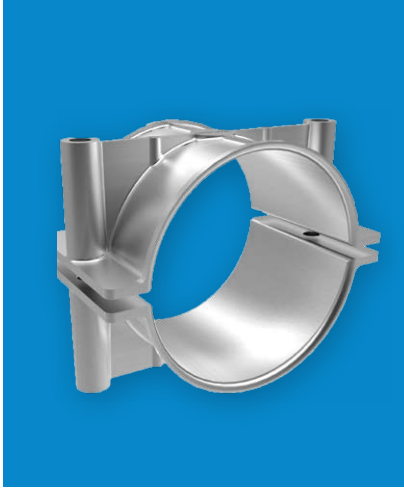
In all applications the cleats should be mounted on suitable M10 fixings. When mounting directly on channel, adaptor plate 380AG02 should be used. When stacking claw cleats use packing piece 389AC03 between cleats.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.1	Metallic
Operating Temperature	6.2	-60°C to +120°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2b: 8 - 6 kN
		Orientation 2d: 8 - 2.3 kN
Axial Load	6.4.3	1.5 - 3 kN
Resistant to electromechanical forces, withstanding more than one short circuit	6.4.5	32.3kA RMS, 71kA Peak, Cable spacing = 100mm, Cleat spacing = 600mm, Cable Ø = 37mm
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet unpolluted conditions
Tightening torque	7.3	30Nm



TWO BOLT CLEAT



370 SERIES (ALUMINUM)

Features

- Suitable for use with cable diameters 51 to 159mm
- Manufactured from aluminum alloy
- Two piece, two fixing design
- Can be double stacked on common fixings
- Suitable for LV & HV cables
- Can be used for all types of cable routes
- Plain finish - for normal industrial areas or outdoor unpolluted areas
- Epoxy coated versions available for harsh environments

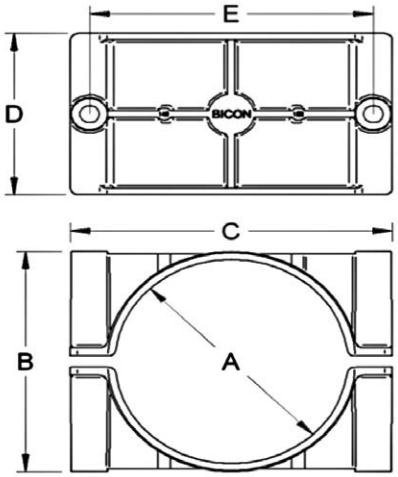
Technical data

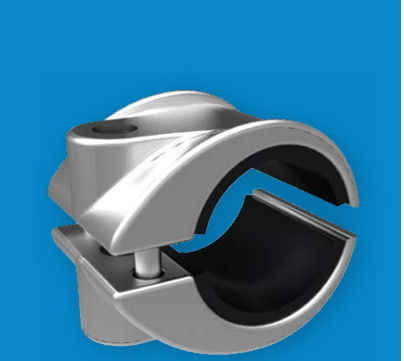
Cable and Cleat Selection						Dimensions										
		Cable Diameter (A)				B		C		D		E				
Design Number		mm		inch		mm	inch	mm	inch	mm	inch	mm	inch			
Standard	Epoxy Coated	Min	Max	Min	Max									Weight (g)	Weight (lb)	Stud Size
370BA10	370BB10	51	57	2.01	2.24	70	2.76	98	3.86	49	1.93	76	2.99	230	0.51	M10
370BA11	370BB11	57	64	2.24	2.52	76	2.99	98	3.86	49	1.93	76	2.99	240	0.53	M10
370BA12	370BB12	64	70	2.52	2.76	82	3.23	135	5.31	64	2.52	114	4.49	384	0.85	M10
370BA13	370BB13	70	76	2.76	2.99	88	3.46	135	5.31	64	2.52	114	4.49	384	0.85	M10
370BA14	370BB14	76	83	2.99	3.27	96	3.78	140	5.51	64	2.52	114	4.49	420	0.93	M12
370BA15	370BB15	83	89	3.27	3.50	101	3.98	140	5.51	64	2.52	114	4.49	490	1.08	M12
370BA16	370BB16	89	95	3.50	3.74	108	4.25	152	5.98	76	2.99	126	4.96	442	0.97	M12
370BA17	370BB17	95	101	3.74	3.98	114	4.49	152	5.98	76	2.99	126	4.96	442	0.97	M12
370BA18	370BB18	101	108	3.98	4.25	120	4.72	165	6.50	76	2.99	140	5.51	650	1.43	M12
370BA19	370BB19	108	114	4.25	4.49	126	4.96	165	6.50	76	2.99	140	5.51	650	1.43	M12
370BA30	370BB30	115	121	4.53	4.76	133	5.24	175	6.89	100	3.94	150	5.91	734	1.62	M12
370BA31	370BB31	121	127	4.76	5.00	139	5.47	175	6.89	120	4.72	150	5.91	720	1.59	M12
370BA32	370BB32	127	133	5.00	5.24	145	5.71	200	7.87	120	4.72	175	6.89	970	2.14	M12
370BA33	370BB33	133	140	5.24	5.51	152	5.98	200	7.87	120	4.72	175	6.89	956	2.11	M12
370BA34	370BB34	140	146	5.51	5.75	158	6.22	200	7.87	120	4.72	175	6.89	935	2.06	M12
370BA35	370BB35	146	152	5.75	5.98	164	6.46	210	8.27	120	4.72	185	7.28	893	1.97	M12
370BA36	370BB36	152	159	5.98	6.26	172	6.77	215	8.46	150	5.91	190	7.48	1325	2.92	M12

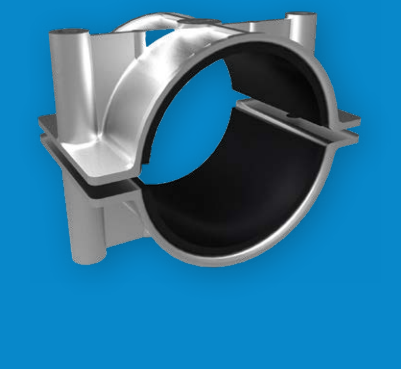
*When mounting directly on channel, adaptor plate 380AG02 should be used.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.1	Metallic
Operating Temperature	6.2	-60°C to +120°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2a: 18.5kN
Axial Load	6.5.2.2	11.4 -> 13.8 kN
Resistant to electromechanical forces, withstanding more than one short circuit	6.4.5	72.7kA RMS, 160kA Peak, cable spacing = 150mm, cleat spacing = 600mm, cable Ø = 66mm
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet unpolluted conditions
Tightening torque	7.3	50Nm







RUBBER LINED CLEATS

370 SERIES (ALUMINUM)

Features

- Suitable for use with cable diameters 16 to 149mm
- Manufactured from aluminum alloy
- Sizes 05-09 - Two piece single fixing claw design
- Sizes 10-136 - two piece two fixing design
- Can be double stacked on common fixings
- Suitable for LV & HV cables
- Can be used for all types of cable routes
- Plain finish - for normal industrial areas or outdoor unpolluted areas
- Epoxy coated versions available for harsh environments
- Tested in accordance with BS EN 61914 (IEC 61914)

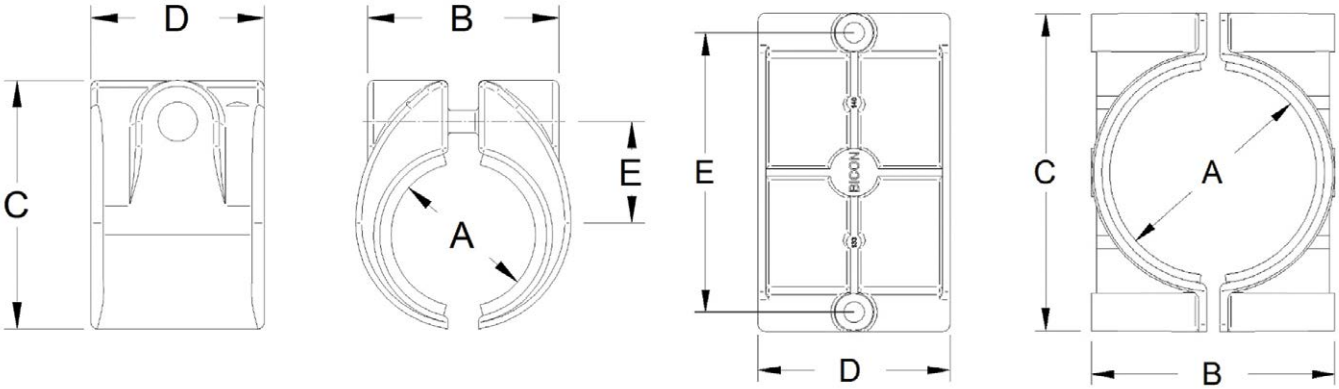
Technical data

Cable and Cleat Selection

Style	Design Number		Cable diameter (A)			
			mm		inch	
	Standard	Epoxy Coated	Min	Max	Min	Max
Single bolt claw	370BA05L	370BB05L	16	19	0.63	0.75
	370BA06L	370BA06L	19	26	0.75	1.02
	370BA07L	370BA07L	26	32	1.02	1.26
	370BA08L	370BB08L	32	38	1.26	1.50
	370BA09L	370BA09L	38	45	1.50	1.77
Two bolt claw	370BA10L	370BB10L	45	51	1.77	2.01
	370BA11L	370BB11L	51	58	2.01	2.28
	370BA12L	370BB12L	58	64	2.28	2.52
	370BA13L	370BB13L	64	70	2.52	2.76
	370BA14L	370BB14L	70	77	2.76	3.03
	370BA15L	370BB15L	73	79	2.87	3.11
	370BA16L	370BB16L	79	85	3.11	3.35
	370BA17L	370BB17L	85	91	3.35	3.58
	370BA18L	370BB18L	91	98	3.58	3.86
	370BA19L	370BB19L	98	104	3.86	4.09
	370BA30L	370BB30L	105	111	4.13	4.37
	370BA31L	370BB31L	111	117	4.37	4.61
	370BA32L	370BB32L	117	123	4.61	4.84
	370BA33L	370BB33L	123	130	4.84	5.12
	370BA34L	370BB34L	130	136	5.12	5.35
	370BA35L	370BB35L	136	142	5.35	5.59
	370BA36L	370BB35L	142	149	5.59	5.87

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to +105°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2b: 8 - 6 kN
		Orientation 2d: 8 - 2.3 kN
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet unpolluted conditions
Resistant to ultraviolet light	6.5.1.2	Pass
Tightening Torque	7.3	30Nm



Style	Dimensions												
	B		C		D		E		Liner Thickness				
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Weight (g)	Weight (lb)	Stud Size
	Max	Max	Max	Max									
Single bolt claw	30	1.18	48	1.89	46	1.81	21	0.83	3	1/8	90	0.20	M10
	37	1.46	54	2.13	46	1.81	24	0.94	3	1/8	104	0.23	M10
	43	1.69	60	2.36	46	1.81	27	1.06	3	1/8	127	0.28	M10
	49	1.93	67	2.64	46	1.81	30	1.18	3	1/8	140	0.31	M10
	49	1.93	73	2.87	46	1.81	34	1.34	3	1/8	173	0.38	M10
Two bolt claw	70	2.76	98	3.86	49	1.93	76	2.99	3	1/8	258	0.57	M10
	76	2.99	98	3.86	49	1.93	76	2.99	3	1/8	272	0.60	M10
	82	3.23	135	5.31	64	2.52	114	4.49	3	1/8	430	0.95	M10
	88	3.46	135	5.31	64	2.52	114	4.49	3	1/8	435	0.96	M10
	96	3.78	140	5.51	64	2.52	114	4.49	3	1/8	476	1.05	M12
	101	3.98	140	5.51	64	2.52	114	4.49	5	1/5	585	1.29	M12
	108	4.25	152	5.98	76	2.99	126	4.96	5	1/5	561	1.24	M12
	114	4.49	152	5.98	76	2.99	126	4.96	5	1/5	569	1.25	M12
	120	4.72	165	6.50	76	2.99	140	5.51	5	1/5	787	1.74	M12
	126	4.96	165	6.50	76	2.99	140	5.51	5	1/5	795	1.75	M12
	133	5.24	175	6.89	100	3.94	150	5.91	5	1/5	943	2.08	M12
	139	5.47	175	6.89	120	4.72	150	5.91	5	1/5	985	2.17	M12
	145	5.71	200	7.87	120	4.72	175	6.89	5	1/5	1248	2.75	M12
	152	5.98	200	7.87	120	4.72	175	6.89	5	1/5	1250	2.76	M12
	158	6.22	200	7.87	120	4.72	175	6.89	5	1/5	1243	2.74	M12
	164	6.46	210	8.27	120	4.72	185	7.28	5	1/5	1214	2.68	M12
	172	6.77	215	8.46	150	5.91	190	7.48	5	1/5	1746	3.85	M12

AFUMEX TELCLEAT®

385 SERIES LS0H

Features

- Suitable for use with cable diameters 10 to 51mm
- Manufactured from LS0H polymer
- Designed for use with Afumex LS0H and Saffire 0HLS cables
- Overlapping self-adjusting ranges
- Sunlight (UV) and weather resistant
- One piece, single fixing design
- Can be double stacked on a single fixing
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

Cable and Cleat Selection						Dimensions									
	Cable Diameter (A)					B		C		D					
	mm		inch			mm	inch	mm	inch	mm	inch				
Design Number	Min	Max	Min	Max	Pack Qty	Max	Max					Weight (g)	Weight (lb)	Screw size*	Bolt size
385LSF01	10.5	14.5	0.41	0.57	100	18	0.71	32	1.26	12	0.47	3.3	0.007	1¼ x 8	M4 x 30
385LSF02	12.2	16.7	0.48	0.66	100	22	0.87	36	1.42	14	0.55	5.6	0.012	1½ x 8	M4 x 35
385LSF03	14.6	19.8	0.57	0.78	100	26	1.02	43	1.69	16	0.63	9.5	0.021	1¾ x 8	M4 x 40
385LSF04	17.7	24	0.70	0.94	50	31	1.22	51	2.01	18	0.71	14.7	0.032	2 x 8	M4 x 45
385LSF05	21.7	28.5	0.85	1.12	25	37	1.46	57	2.24	20	0.79	20.4	0.045	2¼ x 12	M6 x 50
385LSF06	26.2	34.2	1.03	1.35	25	43	1.69	65	2.56	22	0.87	29.2	0.064	2½ x 12	M6 x 60
385LSF07	31.9	41.6	1.26	1.64	10	52	2.05	78	3.07	25	0.98	36.7	0.081	2¾ x 12	M6 x 70
385LSF08	39.3	51.1	1.55	2.01	10	62	2.44	91	3.58	26	1.02	58.1	0.128	3¼ x 12	M6 x 80

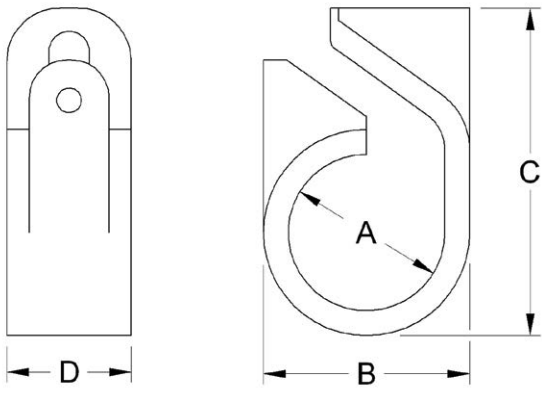
Method of Fixing

The cleat is opened up and placed around the cable so that the end of the cleat containing the slot will be in contact with the mounting surface, except for the 385AA01, which should be reversed to put the slot uppermost. In this case an M5 washer should be used to prevent the nut entering the slot of the cleat. When mounting directly on channel section an adaptor plate should be used.

*Screws to be roundhead type

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-metallic
Operating Temperature	6.2	-60°C to +60°C
Impact Resistance	6.3.4 & 6.3.5	Heavy & Very Heavy
Lateral Load	6.4.2	Orientation 2b: 100 - 750 N
		Orientation 2d: 55 - 330 N
Axial Load	6.4.3	43 - 90 N
Resistant to ultraviolet light	6.5.1.2	Pass
Tightening torque	7.3	4Nm



TELCLEAT®

385 SERIES

Features

- Suitable for use with cable diameters 10 to 51mm
- Manufactured from low density polythene
- Overlapping self-adjusting ranges
- Sunlight (UV) and weather resistant
- One piece, single fixing design
- Can be double stacked on a single fixing
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

Cable and Cleat Selection						Dimensions									
	Cable Diameter (A)					B		C		D					
	mm		inch			mm	inch	mm	inch	mm	inch				
Design Number	Min	Max	Min	Max	Pack Qty	Max	Max					Weight (g)	Weight (lb)	Screw size*	Bolt size
385AA01	10.5	14.5	0.41	0.57	100	18	0.71	32	1.26	12	0.47	2.3	0.005	1¼ x 8	M4 x 30
385AA02	12.2	16.7	0.48	0.66	100	22	0.87	36	1.42	14	0.55	3.4	0.007	1½ x 8	M4 x 35
385AA03	14.6	19.8	0.57	0.78	100	26	1.02	43	1.69	16	0.63	5.5	0.012	1¾ x 8	M4 x 40
385AA04	17.7	24	0.70	0.94	50	31	1.22	51	2.01	18	0.71	8.6	0.019	2 x 8	M4 x 45
385AA05	21.7	28.5	0.85	1.12	25	37	1.46	57	2.24	20	0.79	12.4	0.027	2¼ x 12	M6 x 50
385AA06	26.2	34.2	1.03	1.35	25	43	1.69	65	2.56	22	0.87	16.4	0.036	2½ x 12	M6 x 60
385AA07	31.9	41.6	1.26	1.64	10	52	2.05	78	3.07	25	0.98	24	0.053	2¾ x 12	M6 x 70
385AA08	39.3	51.1	1.55	2.01	10	62	2.44	91	3.58	26	1.02	35	0.077	3¼ x 12	M6 x 80

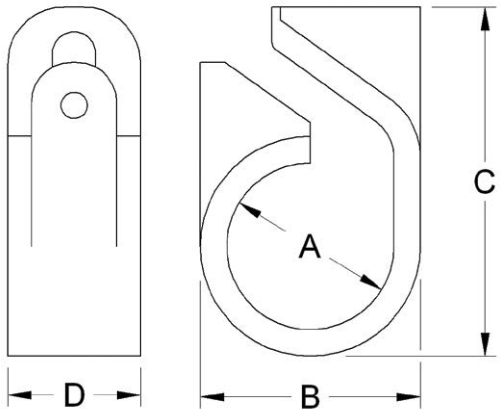
Method of Fixing

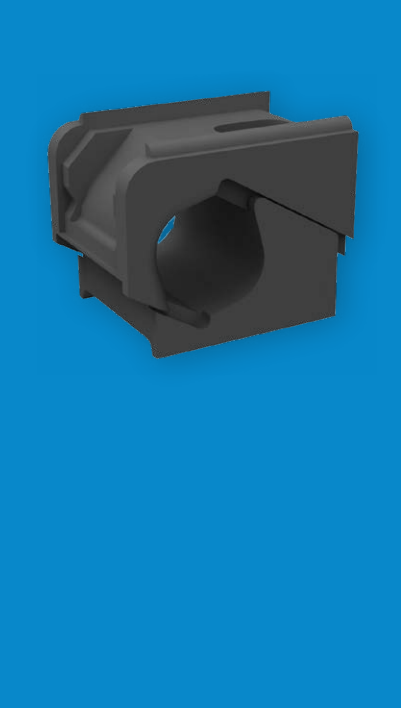
The cleat is opened up and placed around the cable so that the end of the cleat containing the slot will be in contact with the mounting surface, except for the 385AA01, which should be reversed to put the slot uppermost. In this case an M5 washer should be used to prevent the nut entering the slot of the cleat. When mounting directly on channel section an adaptor plate should be used.

*Screws to be roundhead type

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-metallic
Operating Temperature	6.2	-60°C to +60°C
Impact Resistance	6.3.4 & 6.3.5	Heavy & Very Heavy
Lateral Load	6.4.2	Orientation 2b: 100 - 780 N
		Orientation 2d: 55 - 425 N
Axial Load	6.4.3	43 - 90N
Resistant to ultraviolet light	6.5.1.2	Pass
Tightening torque	7.3	4Nm





RANGER® CLEAT

382 SERIES

Features

- Suitable for use with cable diameters 13 to 76mm
- Overlapping self-adjusting ranges
- Sunlight (UV) and weather resistant
- Made from ABS which provides good oil and chemical resistance
- Two piece, single fixing design
- Double stacking facility
- C' Section channel location aids fixing and stacking
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

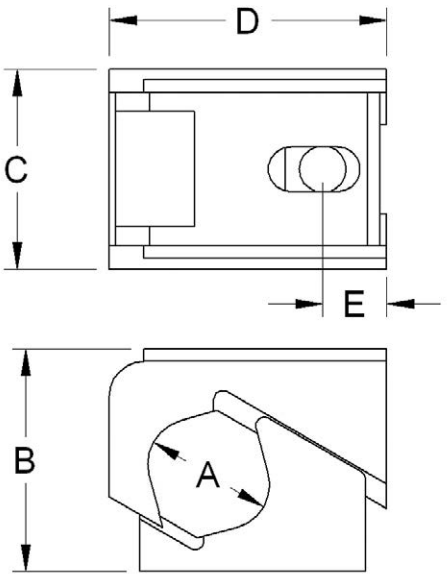
Cleat					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max	Max	Max							Weight (g)	Weight (lb)
382AA01	13	18	0.51	0.71	35.5	1.40	47	1.85	49	1.93	18	0.71	51	0.11
382AA02	17	22	0.67	0.87	40	1.57	47	1.85	54	2.13	20	0.79	52.5	0.12
382AA03	21	28	0.83	1.10	45	1.77	47	1.85	62	2.44	24	0.94	63	0.14
382AA04	27	37	1.06	1.46	53	2.09	47	1.85	67	2.64	30	1.18	76	0.17
382AA05	36	51	1.42	2.01	69	2.72	47	1.85	92	3.62	36	1.42	121	0.27
382AA06	50	76	1.97	2.99	92	3.62	47	1.85	111	4.37	52	2.05	193	0.43

Method of Fixing

In all applications the cleat should be mounted on suitable M10 fixings. There is no need for any channel adaptor when mounting directly on to 'C' section channel.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-metallic
Operating Temperature	6.2	-20°C to +90°C
Impact Resistance	6.3.4	Heavy
Lateral Load	6.4.2	Orientation 2b: 500 N
		Orientation 2d: 500 N
Resistant to ultraviolet light	6.5.1.2	Pass
Tightening torque	7.3	4Nm



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HEAVY DUTY HOOK CLEAT

384 SERIES

Features

- Suitable for use with cable diameters 25 to 80mm
- Manufactured from glass-filled nylon
- Two-piece, single fixing design
- Can be double stacked on a single fixing
- Can be installed in temporary open position to aid single person working
- For normal industrial use indoor and outdoor
- Fits most ladder and tray systems
- Not designed to secure cables in long vertical routes
- Tested in accordance with BS EN 50368
- UL Listed for use in USA & Canada as cable hanger in accordance with UL2239

Technical data

Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max	Max	Max							Weight (g)	Weight (lb)
384AA01	25	35	0.98	1.38	46	1.81	76	2.99	40	1.57	18	0.71	63	0.14
384AA02	34	44	1.34	1.73	54	2.13	85	3.35	40	1.57	18	0.71	74	0.16
384AA03	43	53	1.69	2.09	66.5	2.62	96	3.78	40	1.57	18	0.71	105	0.23
384AA04	52	62	2.05	2.44	75.5	2.97	106	4.17	40	1.57	18	0.71	129	0.28
384AA05	62	71	2.44	2.80	88	3.46	119	4.69	44	1.73	20	0.79	175	0.39
384AA06	70	80	2.76	3.15	97	3.82	129	5.08	44	1.73	20	0.79	221	0.49

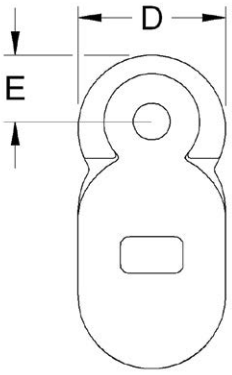
Method of Fixing

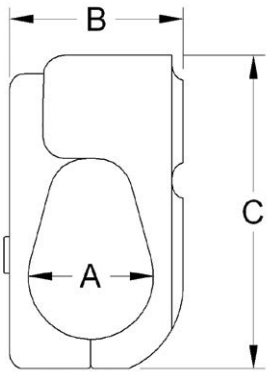
In all applications the cleat should be mounted on suitable M10 fixings. There is no need for any channel adaptor when mounting directly on to 'C' section channel.

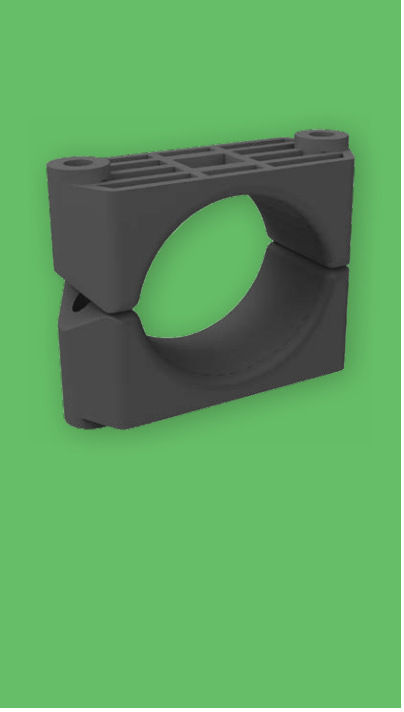
Performance data

EN 50368:2003	Clause	Classification
Type	6.1.2	Non-Metallic
Operating Temperature	6.2	-25°C to +85°C
Impact Resistance	6.2.4 & 6.2.5	Heavy - Very Heavy
Lateral Load	9.2	13.2 - 1.5 kN
Axial Load	9.5	82 - 109 N

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Resistant to ultraviolet light	6.5.1.2	Pass







PLASTIC TWO BOLT CLEAT

374 SERIES

Features

- Suitable for use with cable diameters 50 to 94mm
- Manufactured from black high-density nylon 66
- Unaffected by corrosive environments such as oils and many chemicals
- Sunlight (UV) and weather resistant
- Two piece, two fixing design
- Can be double stacked on common fixings
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

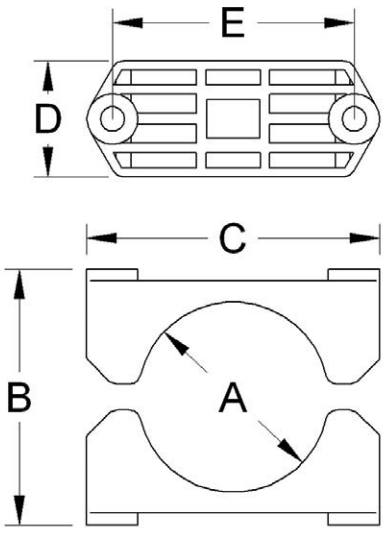
Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max	Max	Max							Weight (g)	Weight (lb)
374AA01	50	58	1.97	2.28	89	3.50	102	4.02	45	1.77	80	3.15	97	0.21
374AA02	56	64	2.20	2.52	93	3.66	102	4.02	45	1.77	80	3.15	98	0.22
374AA03	62	70	2.44	2.76	98	3.86	114	4.49	45	1.77	92	3.62	106	0.23
374AA04	68	76	2.68	2.99	104	4.09	114	4.49	50	1.97	92	3.62	132	0.29
374AA05	74	82	2.91	3.23	110	4.33	126	4.96	50	1.97	104	4.09	154	0.34
374AA06	80	88	3.15	3.46	118	4.65	126	4.96	50	1.97	104	4.09	160	0.35
374AA07	86	94	3.39	3.70	121	4.76	136	5.35	60	2.36	114	4.49	204	0.45

Method of Fixing

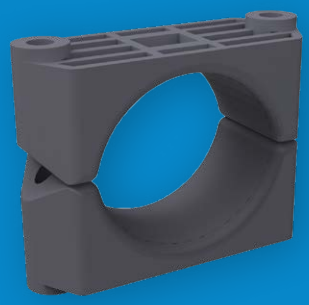
In all applications the cleat should be mounted on suitable M10 fixings.
There is no need for any channel adaptor when mounting directly on to 'C' section channel.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-metallic
Operating Temperature	6.2	-25°C to +85°C
Impact Resistance	6.3.4	Heavy
Lateral Load	6.4.2	Orientation 2a: 10.7 - 18.5 kN
Axial Load	6.4.3	50-70 N
Resistant to ultraviolet light	6.5.1.2	Pass
Tightening torque	7.3	20Nm



AFUMEX TWO BOLT CLEAT



374 SERIES LS0H

Features

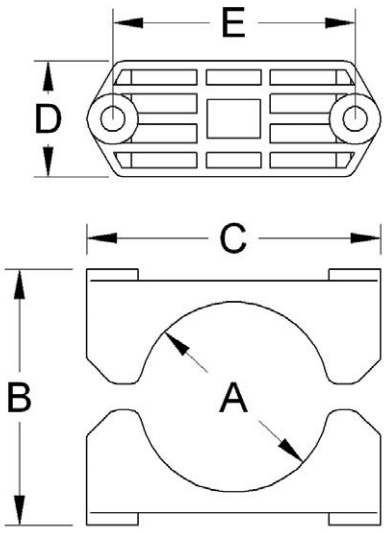
- Suitable for use with cable diameters 50 to 94mm
- Manufactured from LS0H polymer
- Designed for use with Afumex LS0H and Saffire 0HLS cables
- Low smoke and zero halogen
- Sunlight (UV) and weather resistant
- Two-piece, two fixing design
- ·Can be double stacked on common fixings
- Tested in accordance with BS EN 61914 (IEC 61914)

Technical data

Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max	Max	Max							Weight (g)	Weight (lb)
374LSF01	50	58	1.97	2.28	89	3.50	102	4.02	45	1.77	80	3.15	174	0.38
374LSF02	56	64	2.20	2.52	93	3.66	102	4.02	45	1.77	80	3.15	158	0.35
374LSF03	62	70	2.44	2.76	98	3.86	114	4.49	45	1.77	92	3.62	174	0.38
374LSF04	68	76	2.68	2.99	104	4.09	114	4.49	50	1.97	92	3.62	210	0.46
374LSF05	74	82	2.91	3.23	110	4.33	126	4.96	50	1.97	104	4.09	254	0.56
374LSF06	80	88	3.15	3.46	118	4.65	126	4.96	50	1.97	104	4.09	264	0.58
374LSF07	86	94	3.39	3.70	121	4.76	136	5.35	60	2.36	114	4.49	326	0.72

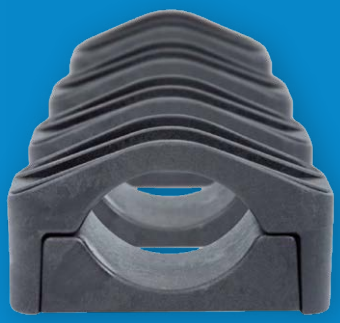
Method of Fixing

In all applications the cleat should be mounted on suitable M10 fixings.
There is no need for any channel adaptor when mounting directly on to 'C' section channel.



Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-metallic
Operating Temperature	6.2	-25°C to +60°C
Impact Resistance	6.3.4	Heavy
Lateral Load	6.4.2	Orientation 2a: 2 kN
Axial Load	6.4.3	50 - 70 N
Tightening torque	7.3	20Nm



POLYAMIDE CLEAT

373AA SERIES

Features

- Suitable for single or multicore cables with diameters from 15 - 170mm
- For mounting low, medium and high voltage cables
- Manufactured from high strength glass filled polyamide 6
- High range take - able to accommodate loosely toleranced cables
- Non magnetic
- Stackable
- Life expectancy 40+ years
- Halogen free and flame retardant - ideal for tunnels and buildings V-0 (UL94)
- Weather resistant - UV, Ozone and frost
- Resistance to oils, acids, salts & other aggressive materials
- Resistant to Ionizing radiation - ideal for use in nuclear power plants
- Fully recyclable
- Approved to IEC 61914:2009
- Operation Temperatures -40°C to +125°C (with short periods at +225°C)

Technical data

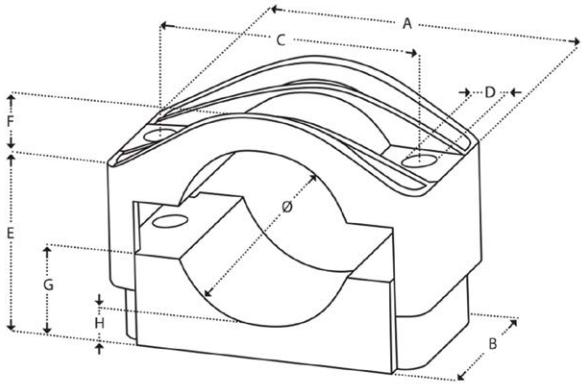
Cable and Cleat Selection					Dimensions																	
	Cable Diameter (Ø)				A		B		C		D		E				F		G		H	
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch	mm		inch		mm	inch	mm	inch	mm	inch
Design Number	Min	Max	Min	Max	-	-	-	-	-	-	-	-	Min	Max	Min	Max	-	-	-	-	-	-
373AA00	15	26	0.59	1.02	77	3.03	45	1.77	50	1.97	10	0.39	26	42	1.02	1.65	4	0.16	17	0.67	8	0.31
373AA01	26	38	1.02	1.50	92	3.62	60	2.36	60	2.36	12	0.47	33	49	1.30	1.93	7	0.28	18	0.71	7	0.28
373AA02	36	52	1.42	2.05	105	4.13	60	2.36	75	2.95	12	0.47	39	55	1.54	2.17	15	0.59	23	0.91	8	0.31
373AA03	50	75	1.97	2.95	126	4.96	60	2.36	95	3.74	12	0.47	46	71	1.81	2.80	22	0.87	30	1.18	9	0.35
373AA04	75	100	2.95	3.94	200	7.87	80	3.15	150	5.91	15	0.59	70	95	2.76	3.74	32	1.26	45	1.77	10	0.39
373AA05	100	135	3.94	5.31	225	8.86	85	3.35	175	6.89	15	0.59	85	120	3.35	4.72	43	1.69	58	2.28	10	0.39
373AA06	135	170	5.31	6.69	260	10.24	90	3.54	210	8.27	15	0.59	133	169	5.24	6.65	62	2.44	90	3.54	28	1.10

Method of Fixing

All sizes have stud clearance holes of 15.5mm, allowing fixing sizes M10, M12 & M14 to be used.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.2	Non-metallic
Operating Temperature	6.2	-40°C to 125°C
Resistance to short circuit	6.4.5	Up to 202kA peak



SHOE CLEAT

370 SERIES

In order to allow for the linear expansion of larger cables the support positions are often broadly spaced. Such broad spacing would put very high point loading on the cables which could lead to long term failure. The shoe cleats are designed to allow this potentially damaging load to be spread over a significantly longer length thus avoiding any potential cable damage. Based on the 370 series of Aluminum 2 bolt cleats with the shoes made from 316L stainless steel with rubber lining. The shoes are designed and formed with the correct bend radius to match the cable's expansion curve. Contact the Prysmian Components technical team who will be able to match the correct cleat and spacing to the size of cable and installation design.

Technical data

	Cable and Cleat Selection				Dimensions						
	Cable Diameter (A)				Bolt Centres		Shoe Length		Expansion Radius		
	mm		inch		mm	inch	mm	inch	mm	inch	
Design Number	Min	Max	Min	Max							**Stud Size**
370BA16SL	79	85	3.11	3.35	126	4.96	400	15.75	3000	118.11	M12
370BA17SL	85	91	3.35	3.58	136	5.35	400	15.75	3000	118.11	M12
370BA18SL	91	98	3.58	3.86	140	5.51	400	15.75	3000	118.11	M12
370BA19SL	98	104	3.86	4.09	140	5.51	450	17.72	3000	118.11	M12
370BA30SL	105	111	4.13	4.37	150	5.91	450	17.72	3000	118.11	M12
370BA31SL	111	117	4.37	4.61	150	5.91	500	19.69	3000	118.11	M12
370BA32SL	117	123	4.61	4.84	175	6.89	600	23.62	3000	118.11	M12
370BA33SL	123	130	4.84	5.12	175	6.89	700	27.56	3000	118.11	M12
370BA34SL	130	136	5.12	5.35	175	6.89	700	27.56	3000	118.11	M12
370BA35SL	136	142	5.35	5.59	185	7.28	800	31.50	3000	118.11	M12
370BA36SL	142	149	5.59	5.87	190	7.48	800	31.50	3000	118.11	M12

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to +105°C
Impact Resistance	6.3.5	Very Heavy
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet unpolluted conditions
Tightening Torque	7.3	50Nm

LINEAR SHORT

CIRCUIT STRAPS

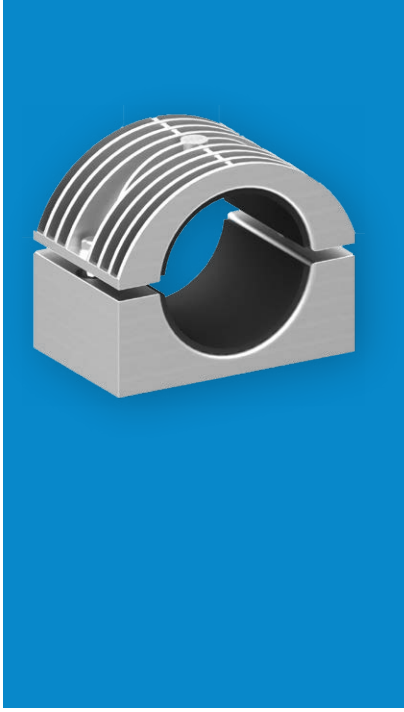
The linear short circuits straps can be used in horizontal or vertical installations. They can be designed and manufactured to user specified interaxial spacings. Options are available for them to be supplied with or without rubber liners to meet the cable system design requirements. Contact the Prysmian Components technical team who will be able to match the correct cleat and spacings to the size of cable and installation design.

Technical data

Cable and Cleat Selection				Cleat Details			
				Cable Diameter			
Aluminum Alloy		Epoxy Coated Aluminum Alloy		mm		inch	
3 Way	2-Way	3 Way	2-Way	Min	Max	Min	Max
370SA16-xxx	370SA66-xxx	370SB16-xxx	370SB66-xxx	79	85	3.11	3.35
370SA17-xxx	370SA67-xxx	370BS17-xxx	370BS67-xxx	85	91	3.35	3.58
370SA18-xxx	370SA68-xxx	370BS18-xxx	370BS68-xxx	91	98	3.58	3.86
370SA19-xxx	370SA69-xxx	370BS19-xxx	370BS69-xxx	98	104	3.86	4.09
370SA30-xxx	370SA80-xxx	370BS30-xxx	370BS80-xxx	105	111	4.13	4.37
370SA31-xxx	370SA81-xxx	370BS31-xxx	370BS81-xxx	111	117	4.37	4.61
370SA32-xxx	370SA82-xxx	370BS32-xxx	370BS82-xxx	117	123	4.61	4.84
370SA33-xxx	370SA83-xxx	370BS33-xxx	370BS83-xxx	123	130	4.84	5.12
370SA34-xxx	370SA84-xxx	370BS34-xxx	370BS84-xxx	130	136	5.12	5.35
370SA35-xxx	370SA85-xxx	370BS35-xxx	370BS85-xxx	136	142	5.35	5.59
370SA36-xxx	370SA86-xxx	370BS36-xxx	370BS86-xxx	142	149	5.59	5.87

*Replace 'xxx' with 300, 400, 500, 600, 700 mm or 12, 18, 24, 36 inch for required cable separation.

HEAVY DUTY TWO BOLT CLEAT



370HD SERIES (ALUMINUM)

Features

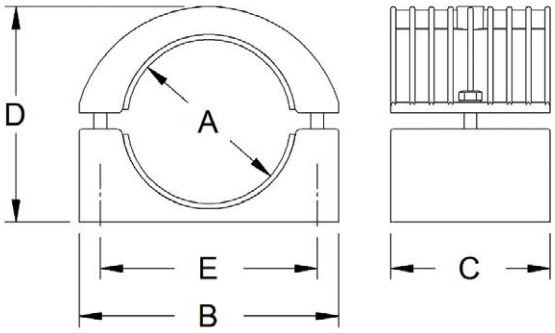
- Ideally suitable for larger cables with diameters 105 to 165mm
- Manufactured from aluminum alloy
- Two-piece, two fixing design
- Designed to protect the cable sheaths during installation
- Plain finish - for normal industrial areas or outdoor unpolluted areas
- Epoxy coated versions available for harsher environments
- Supplied with rubber liners
- Tested in accordance with BS EN 61914

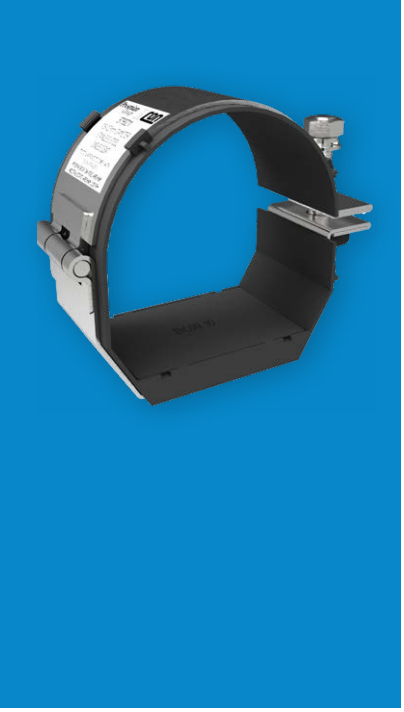
Technical data

Cable and Cleat Selection						Dimensions									
Design Number		Cable Diameter (A)				B		C		D		E			
		mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Standard	Epoxy Coated	Min	Max	Min	Max	Max	Max	-	-	Min	Max	-	-	Weight (g)	Weight (lb)
370HD01	370HE01	105	115	4.13	4.53	210	8.27	110	4.33	165	6.50	170	6.69	2517	5.53
370HD02	370HE02	115	125	4.53	4.92	220	8.66	120	4.72	175	6.89	180	7.09	2797	6.15
370HD03	370HE03	125	135	4.92	5.31	230	9.06	130	5.12	185	7.28	190	7.48	3268	7.19
370HD04	370HE04	135	145	5.31	5.71	240	9.45	140	5.51	195	7.68	200	7.87	3598	7.94
370HD05	370HE05	145	155	5.71	6.10	245	9.65	150	5.91	205	8.07	205	8.07	3853	8.38
370HD06	370HE06	155	165	6.10	6.50	260	10.24	160	6.30	215	8.46	220	8.66	4291	9.48

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to +105°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2a: 50 kN
Axial Load	6.4.3	4 kN
Resistant to electromechanical forces, withstanding one short circuit	6.4.4	63kA RMS, 157.5kA peak, cable Ø = 151mm cable spacing = 195mm, cleat spacing = 1500mm
Resistant to ultraviolet light	6.5.1.2	Pass
Tightening torque	7.3	4Nm





ORBIT CLEAT

379 SERIES

Features

- Suitable for use with cable diameters 30 to 150mm
- Single or double bolt fixing
- Ergonomic design allows easy installation, with single tool tightening from the top side
- Liners are made from LS0H materials
- Suitable for use with single and multicore cables with high fault current requirements
- Suitable for standard and LS0H cable sheaths
- Can be used in harsh environments
- Can be used with all standard ladder and tray systems
- Tested in accordance with BS EN 61914 (IEC 61914)
- Allows fire performance cables to meet the requirements of BS 6387:2013 & BS8491:2008
- Manufactured from non-magnetic, corrosion resistant 316L stainless steel

Technical data

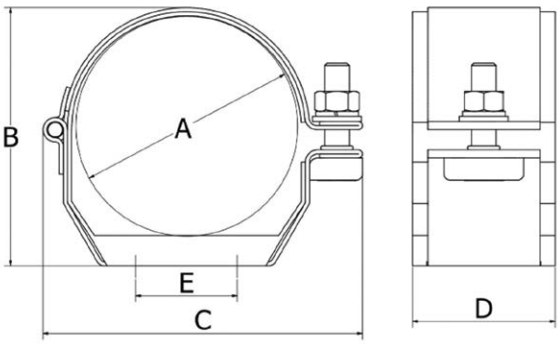
Cable and Cleat Selection					Dimensions									
	Cable Diameter (A)				B		C		D		E			
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch		
Design Number	Min	Max	Min	Max	Max	Max							Weight (g)	Weight (lb)
379SC01	30	40	1.18	1.57	86	3.39	65	2.56	70	2.76	Centre hole only		435	0.96
379SC02	38	46	1.50	1.81	92	3.62	71	2.80	70	2.76	Centre hole only		467	1.03
379SC03	45	53	1.77	2.09	99	3.90	78	3.07	70	2.76	Centre hole only		499	1.10
379SC04	52	60	2.05	2.36	106	4.17	85	3.35	70	2.76	25	1	530	1.17
379SC05	59	67	2.32	2.64	113	4.45	92	3.62	70	2.76	25	1	526	1.16
379SC06	66	74	2.60	2.91	120	4.72	99	3.90	70	2.76	25	1	558	1.23
379SC07	72	82	2.83	3.23	132	5.20	111	4.37	70	2.76	25	1	639	1.41
379SC08	82	92	3.23	3.62	141	5.55	120	4.72	70	2.76	25	1	683	1.51
379SC09	92	103	3.62	4.06	151	5.94	130	5.12	70	2.76	50	2	737	1.62
379SC10	103	113	4.06	4.45	160	6.30	139	5.47	70	2.76	50	2	784	1.73
379SC11	113	123	4.45	4.84	169	6.65	148	5.83	70	2.76	50	2	764	1.68
379SC12	122	132	4.80	5.20	178	7.01	157	6.18	70	2.76	50	2	865	1.91
379SC13	131	141	5.16	5.55	177	6.97	156	6.14	70	2.76	50	2	908	2.00
379SC14	140	150	5.51	5.91	196	7.72	175	6.89	70	2.76	75	3	950	2.09

*All cleats have a single central fixing hole for a 12mm diameter fixing bolt. Styles 04 to 14 can also be fixed with 2 x 10mm bolts - the 10mm clearance holes are positioned either side of the central hole with centres as per dimension E.

Performance data

BS EN 61914:2021 (IEC 61914:2020)	Clause	Classification
Type	6.1.3	Composite
Operating Temperature	6.2	-60°C to +60°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2a: 14.5kN
		Orientation 2c: 1kN
Axial Load	6.4.3	0.24kN
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet conditions
Resistant to ultraviolet light	6.5.1.2	Pass

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Resistant to electromechanical forces, withstanding more than one short circuit	6.4.5	77.3kA RMS, 170kA Peak, cable spacing = 125mm, cleat spacing = 600mm, cable Ø = 66mm



FIREFIX®

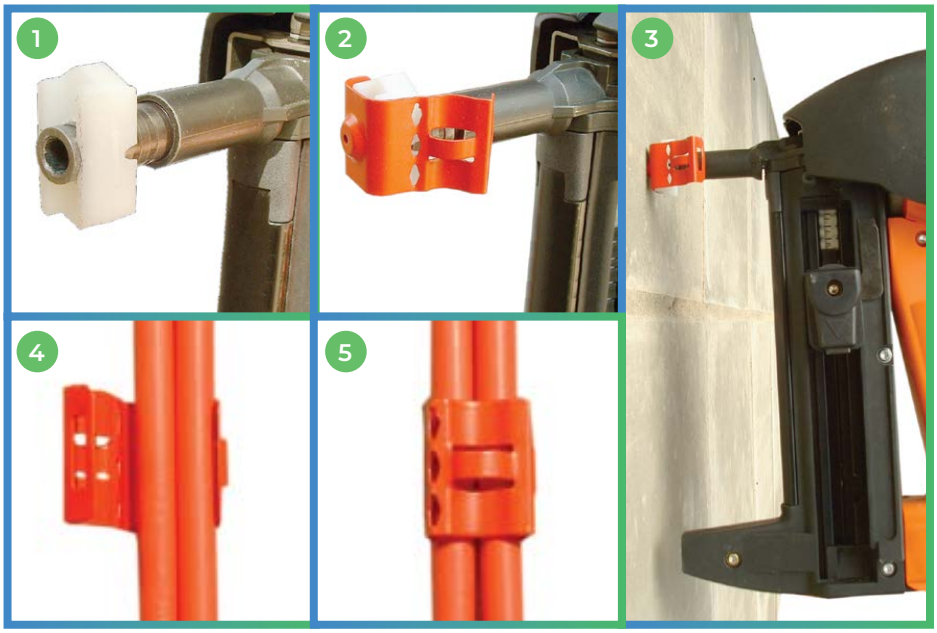
SINGLE & DOUBLE CLIPS

Features

- The Firefix™ system is fast, easy and meets the cable support requirements of the wiring code
- Designed to be used with the Spit Pulsa™ gas nailing technology for rapid installation
- Made from corrosion resistant Stainless steel which is coated with an intumescent LS0H coating in either white or red to match the cable
- Should spaced in accordance with Prysmian suggested spacings wiring regulations, or other appropriate code
- Can be fixed to steel, block work, composite steel decking, brick or concrete.
- The fixing of the clip and installation of the cable takes just 10 seconds.
- Nail fixed fire resistant clip

Technical data

Clip Selection							Installed Dimensions								
			Cable Diameter				Height		Width		Length				
			mm		inch		mm	inch	mm	inch	mm	inch			
Design Number	Colour	Cables per clip	Min	Max	Min	Max	-	-	-	-	-	-	**Kit Qty**	**Weight Ea (g)**	**Weight Ea (lb)**
FPZF01R	Red	1	7.7	8.2	0.30	0.32	13.6	0.54	13.8	0.54	15.3	0.60	1000	3.3	0.007
FPZF01W	White	1	7.7	8.2	0.30	0.32	13.6	0.54	13.8	0.54	15.3	0.60	1000	3.3	0.007
FPZF03R	Red	1	8.2	9.2	0.32	0.36	13.6	0.54	13.8	0.54	15.3	0.60	1000	3.3	0.007
FPZF03W	White	1	8.2	9.2	0.32	0.36	13.6	0.54	13.8	0.54	15.3	0.60	1000	3.3	0.007
FPZF02R	Red	2	7.7	8.5	0.30	0.33	15	0.6	21.6	0.85	25.4	1.0	1000	3.3	0.017
FPZF02W	White	2	7.7	8.5	0.30	0.33	15	0.6	21.6	0.85	25.4	1.0	1000	3.3	0.017
FPZF04R	Red	2	8.5	9	0.33	0.35	15	0.6	21.6	0.85	25.4	1.0	1000	3.3	0.017
FPZF04W	White	2	8.5	9	0.33	0.35	15	0.6	21.6	0.85	25.4	1.0	1000	3.3	0.017



Installation

1. Attach adapter to Pulsa™ tool (*double clip only)
2. Position the FIREFIX™ clip on to the tool
3. Ensure the substrate is clear before pushing the Spit Pulsa™ tool against the substrate, and nailing the clip into position
4. Place the cable(s) into the clip
5. Close clip

**Nailing tool sold separately.

CLAW CLEAT

370 SERIES – FIRE RESISTANT

Features

- Suitable for use with cable diameters 10 -54mm
- Hot dip galvanized finish on cast iron
- Two- piece, single fixing design
- Can be stacked to a maximum of three on one fixing
- Can withstand a 2 hour excursion to 1000˚C
- Can be used for all types of cable routes
- Suitable for all environments
- Packing pieces to be used where required
- Tested in accordance with BS EN 61914 (IEC 61914)
- Allows fire performance cables to meet the requirements of BS 6387:1994, BS 5839-1:2002, BS7346-6:2005 & BS8491:2008

Technical data

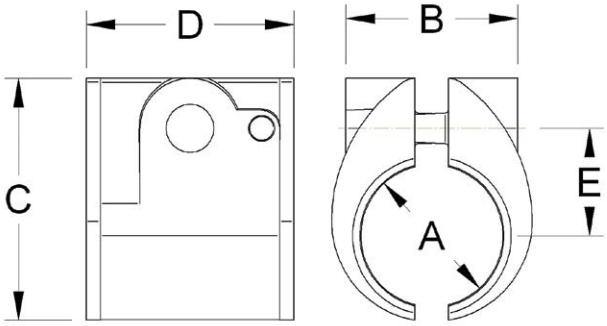
Cable and Cleat Selection					Dimensions										
	Cable Diameter (A)				B		C		D		E				
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch			
Design Number	Min	Max	Min	Max	-	-	-	-	-	-	-	-	Weight (g)	Weight (lb)	Stud Size
370CG01	10	13	0.39	0.51	22	0.87	38	1.50	46	1.81	16	0.63	227	0.50	M10
370CG02	13	16	0.51	0.63	22	0.87	38	1.50	46	1.81	16	0.63	208	0.46	M10
370CG03	16	19	0.63	0.75	25	0.98	41	1.61	46	1.81	18	0.71	232	0.51	M10
370CG04	18	22	0.71	0.87	28	1.10	45	1.77	46	1.81	19	0.75	279	0.62	M10
370CG05	21	26	0.83	1.02	32	1.26	48	1.89	46	1.81	21	0.83	299	0.66	M10
370CG06	25	32	0.98	1.26	37	1.46	54	2.13	46	1.81	24	0.94	319	0.70	M10
370CG07	31	38	1.22	1.50	43	1.69	60	2.36	46	1.81	27	1.06	395	0.87	M10
370CG08	36	46	1.42	1.81	53	2.09	67	2.64	46	1.81	30	1.18	492	1.08	M10
370CG09	44	54	1.73	2.13	59	2.32	73	2.87	46	1.81	33	1.30	502	1.11	M10

Method of Fixing

In all applications the cleats should be mounted on suitable fixings, see table for appropriate size. When mounting directly on channel, adaptor plates 380AG02 should be used. When stacking claw cleats use packing piece 389AC01 between cleats.

Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.1	Metallic
Operating Temperature	6.2	-60°C to +120°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2b: 3.7- 6 kN
		Orientation 2d: 3.7 - 7.2 kN
Axial Load	6.4.3	1.5 - 3kN
Resistance to Corrosion	6.5.2.2	High, Outdoor- Wet unpolluted conditions
Tightening torque	7.3	30Nm



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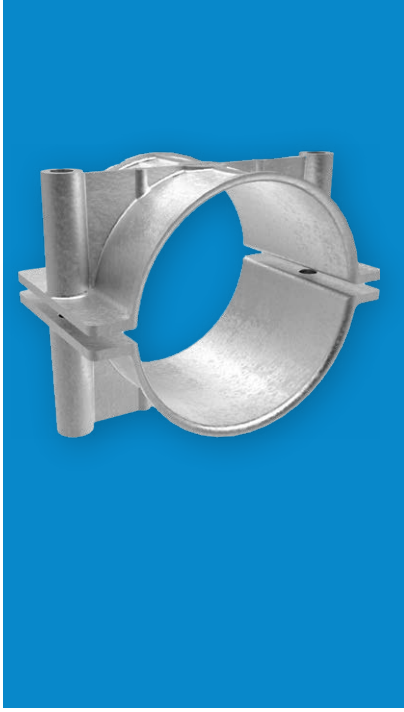
TWO BOLT CLEAT



370 SERIES – FIRE RESISTANT

Features

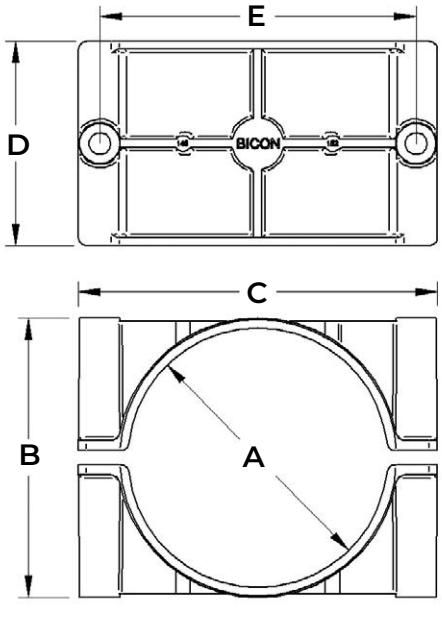
- Suitable for use with cable diameters 51 – 89mm
- Hot dip galvanised finish on cast iron
- Two-piece, two fixing design
- Can be double stacked on common fixings
- Can withstand a 2 hour excursion to 1000˚C
- Can be used for all types of cable routes
- Suitable for all environments
- Tested in accordance with BS EN 61914 (IEC 61914)
- Allows fire performance cables to meet the requirements of BS 6387:2013 & BS8491:2008

Technical data

Cable and Cleat Selection					Dimensions										
	Cable Diameter (A)				B		C		D		E				
	mm		inch		mm	inch	mm	inch	mm	inch	mm	inch			
Design Number	Min	Max	Min	Max									Weight (g)	Weight (lb)	Stud Size
370CG10	51	59	2.01	2.32	75	2.95	98	3.86	49	1.93	38	1.50	902	1.99	M10
370CG11	54	62	2.13	2.44	78	3.07	102	4.02	49	1.93	40	1.57	892	1.97	M10
370CG12	57	65	2.24	2.56	81	3.19	105	4.13	49	1.93	41	1.61	854	1.88	M10
370CG13	62	70	2.44	2.76	89	3.50	137	5.39	64	2.52	57	2.24	1155	2.55	M10
370CG14	68	76	2.68	2.99	95	3.74	140	5.51	64	2.52	57	2.24	1245	2.74	M12
370CG15	74	82	2.91	3.23	102	4.02	140	5.51	64	2.52	57	2.24	1300	2.87	M12
370CG16	80	89	3.15	3.50	108	4.25	140	5.51	64	2.52	57	2.24	1582	3.49	M12

Method of Fixing

In all applications the cleats should be mounted on suitable fixings, see table for appropriate size. When mounting directly on channel, adaptor plate 380AG02 should be used.



Performance data

BS EN 61914:2016 (IEC 61914:2015)	Clause	Classification
Type	6.1.1	Metallic
Operating Temperature	6.2	-60°C to +105°C
Impact Resistance	6.3.5	Very Heavy
Lateral Load	6.4.2	Orientation 2a: 18.5 - 18.8 kN
Axial Load	6.4.3	6.8 - 11.4 kN
Resistance to Corrosion	6.5.2.2	High, Outdoor - Wet unpolluted conditions
Tightening torque	7.3	50Nm

DESIGNED TO YOUR REQUIREMENTS

TERMINATION SUPPORT CLEATS

Overview

Used to support single core cables in termination enclosures. Made from galvanised steel with a rubber liner and stainless steel fasteners.

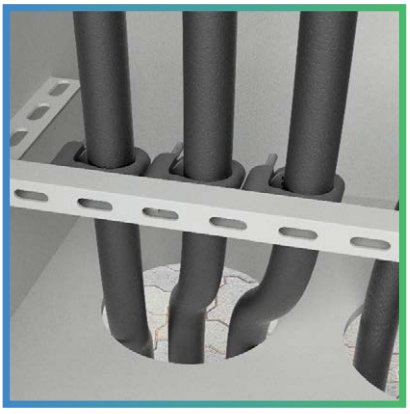
Cable and Cleat Selection

Design Number	Cable Diameter (A)			
	mm		inch	
	Min	Max	Min	Max
334AA03	20	32	0.79	1.26
334AA04	28	38	1.10	1.50
334AA05	37	50	1.46	1.97
334AA06	46	61	1.81	2.40

TREFOIL CLEATS - WITH SUPPORT SHOES

Overview

Used when Trefoil arrangements are installed using a flexible sagged installation pattern. Support shoes are designed to match the curve of the sagged cables and the distance between support positions.



COMBINED ASSEMBLIES

Overview

Assemblies of cleats with additional hardware or support structure to satisfy specific project needs.
Example shown - Support assembly for use with MV cables used within the termination arrangement associated with a solar generation.

ACCESSORIES

CABLE TIES

- Bunles of cables up to 100mm in diameter
- Available in black or natural finish
- Operating temperatures -40˚C to +85˚C

Technical data | Black Nylon Cable Ties

	Cable and Cleat Selection				Cleat Details	
	Length		Width		Minimum Tensile	Minimum Bundle
Design Number	mm	inch	mm	inch	Strength (kg)	Diameter (mm)
BB18S	96	3.8	2.5	0.10	8	19
BB40S	150	5.9	3.5	0.14	18	32
BB40L	203	8.0	3.5	0.14	18	50
BB50A	280	11.0	5	0.20	22	76
BB50S	190	7.5	5	0.20	22	44
BB50L	368	14.5	5	0.20	22	100
BB120S	380	15.0	8	0.31	54	100
BB120L	550	21.7	8	0.31	54	150

Technical data | Natural Nylon Cable Ties

	Cable and Cleat Selection				Cleat Details	
	Length		Width		Minimum Tensile	Minimum Bundle
Design Number	mm	inch	mm	inch	Strength (kg)	Diameter (mm)
BN18S	96	3.8	2.5	0.10	8	19
BN40S	150	5.9	3.5	0.14	18	32
BN40L	203	8.0	3.5	0.14	18	50
BN50A	280	11.0	5	0.20	22	76
BN50S	190	7.5	5	0.20	22	44
BN50L	368	14.5	5	0.20	22	100
BN120S	380	15.0	8	0.31	54	100

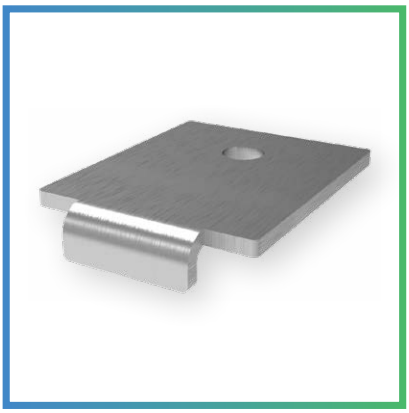
ACCESSORIES

INSULATED PADS

Overview

Insulating pads are designed for use with the 379 series. Sirius and Orbit cleats. They are designed to prevent bi-metalic corrosion between the cleat and substructure. They should be used in instances where installing a stainless steel cleat onto a galvanized steel structure.

Insulating pad	379TC-	379SC-
3900010	01-07	01-08
3900011	08-12	08-12
3900012	13-16	13-14
3900013	17-19	-
3900014	20 & 21	-
3900015	22	-

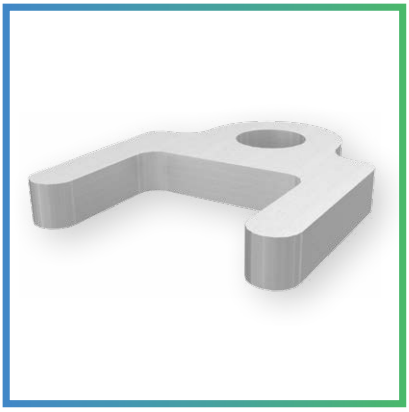


ADAPTOR PLATE

Overview

Required when mounting smaller cleats directly onto 41mm wide channel.

Reference number	Adaptor Plate Description
380AG02	M10 (Galvanised)



CLAW CLEAT PACKING PIECE

Overview

Packing piece required when stacking claw cleats.

Reference number	Adaptor Plate Description	Used with
389AC01	Steel, galvanized	370CG01 - 09
389AC03	Aluminum alloy, plain	370BA01 - 09
389AC04	Aluminum alloy, epoxy coated	370BB01 - 09

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