



Multicleat/Multistrap System 378 Series





Features and Benefits

- Suitable for use with cable diameters 24 to 145mm.
- Large range take on each size.
- Single or double bolt fixing.
- Operating temperatures -60°C to +105°C.
- All straps manufactured from non-magnetic 316L Stainless Steel.
- Plain Aluminium bases for normal industrial areas or outdoor unpolluted areas.
- Epoxy coated Aluminium versions or Stainless Steel available for harsher environments.
- Bespoke tensioning adaptor included with every cleat and strap.
- Liners are made from LSOH 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.
- LUL APR Product ID 1996.
- Patent number 2082242.









Consisting of Aluminium or Stainless Steel bases with a Stainless Steel strap complete with a tensioning clip the BICON™ Multicleat system offers the best flexibility for cable fixing available on the market today. With an unprecedented test portfolio and service record, the Multicleat system should be your first choice for trefoil and single cables installations requiring a high system fault current rating.

Multistraps are used as intermediate restraints and are positioned centrally between a pair of Multicleats. The standard and heavy duty products have different short circuit ratings related to their installation spacings. Please consult the following information in order to make the correct selection.

All Multicleats and Multistraps now come with a disposable shear torque tensioning adapter. This was introduced in response to customer requests to improve the closure of the cleats and also better control the tension applied during installation. The adapter fits into the open end of the winding pin and is used with a standard 13mm socket wrench. Thus simplifying installation. When the correct tension has been applied the adapter shears off LSOH material liners are available for both the Multicleat and Multistrap. The LSOH conform to BS6853. Please contact the Prysmian Components technical team who will be able to offer the correct advice to suit your individual installation.

Installation Sequence



Fasten base to support with M10 fixings. Loop strap through base and around cables.
Standard duty = 2 loops.
Heavy Duty = 3 loops.



Pull slack into outer loop. Insert split pin from right hand side around outer layer of strap about 10mm from end. Push plastic shear torque adaptor fully onto the end of the split pin and attach 13mm socket wrench. To tension the strap rotate key anti-clockwise with the socket wrench until the adaptor shears.



Remove the shear torque adaptor and wrench. Swing the key over and engage in slots in clip.







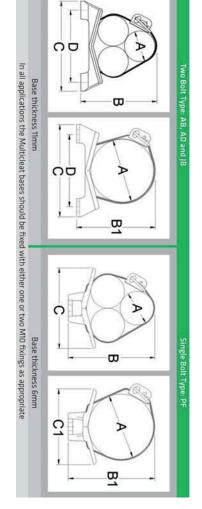
Aluminium

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Option		Standard	91	02	03	04	05	90	07	08								
		Heavy Duty	51	52	53	54	55	56	57	58		36	37	38	39	40	41	42
Ontion	Tref	Minimum Individual Cable Diameter (mm)	24	30	37	43	50	56	63	69	N/A	72	82	92	102	112	122	132
e Size	Cable Size Trefoil &	Maximum Individual Cable Diameter (mm)	34	41	47	54	60	67	73	80	N/A	85	95	105	115	125	135	145
Weight		Weight (kg) Standard Duty (01-09)	0.160	0.171	0.184	0.211	0.225	0.240	0.253									
		Weight (kg) Heavy Duty (51-42)	0.199	0.218	0.24	0.259	0.278	0.299	0.322	0.342		0.356	0.388	0.422	0.453	0.484	0.515	0.545
Liner		377LSF	01						0	20			0,0	CU		0	Co	

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Base Options	Two Bolts S		Aluminium Epoxy Coate Stainless Ste										AD JB							
ptions	Single Bolt	el	Stainless Ste								뮤	:								
		ł	Standard	9	02	03	04	20	90	07	80	9								
		ty	Heavy Du	51	52	53	54	55	56	57	58	59	36	37	38	39	40	41	i	
	Trefoil &		Minimum Individual Cab Diameter (mr	24	30	37	43	50	56	63	69	N/A	72	82	92	102	112	122		
Cable Size	<u>≅</u> 80		Maximum Individual Cab Diameter (mr	34	41	47	54	60	67	73	80	N/A	85	95	105	115	125	135		
Size	Sin		Minimum Individual Cab Diameter (mr	36	60	80	85					105								
	Single O		Maximum Individual Cab Diameter (mr	59	85	90	110					120								
Liner		377LSF			01				02						20	06				
			Max Width C (mm)	126	126	122	122	132	132	176	176	122	230	230	284	284	284	284	700	
		_	Hole Centres D (mm)	100	100	96	96	106	106	150	150	96	200	200	242	242	242	242)	
		AB / AD	Weight (kg) Standard Duty (01-09)	0.468	0.479	0.520	0.535	0.569	0.583	0.716	0.729	0.547	·	-	-	-	-			
			Weight (kg) Heavy Duty (01-09)	0.54	0.57	0.576	0.595	0.636	0.657	0.798	0.818	0.614	0.832	0.864	1.449	1.480	1.511	1.542	1 577	
			Max Width C (mm)	120	120	126	126	132	132	152	152	126	230	230	230	290	290	290	700	
	Two Bolts		Hole Centres D (mm)	100	100	100	100	100	100	125	125	100	200	200	200	250	250	250	1	
	its	JB	Weight (kg) Standard Duty (01-09)	0.63	0.641	0.727	0.742	0.757	0.771	0.94	0.953	0.754	,	-	-	-	-	-		
Dimensi			Weight (kg) Heavy Duty (01-09)	0.669	0.668	0.783	0.802	0.824	0.845	1.022	1.042	0.821	1.454	1.486	1.520	2.551	2.582	2.613	מ העם	
mensions and Weights		AB or AD	Max Height Trefoil B (mm)	95	100	121	135	146	160	172	186	ı	190	210	230	250	270	290	77	
Veights		D or JB	Max Height Single Cable B1 (mm)	92	113	===	138	ı	-	·	ı	148	ı	-		-	-			
			Base Width (mm)	76	76	104	104	120	120	146	146	104								
			Max Width Trefoil C (mm)	76	82	104	108	120	134	146	160	į.								
	S		Max Width Single Cable C1 (mm)	76	85	104	100					120								
	Single Bolt	PF	Weight (kg) Standard Duty (01-09)	0.480	0.491	0.566	0.581	0.634	0.648	0.890	0.903	0.593								
	olt		Weight (kg) Heavy Duty (51-42)	0.519	0.538	0.622	0.641	1 0.701	3 0.722	0.972	0.992	0.660								
			Max Height Trefoil (mm)	99	113	121	135	147	161	173	187	1	ī	ı		ı	-	ı		
			Max Height Single Cable B1 (mm)	96	116	118	138					148								

ΑВ







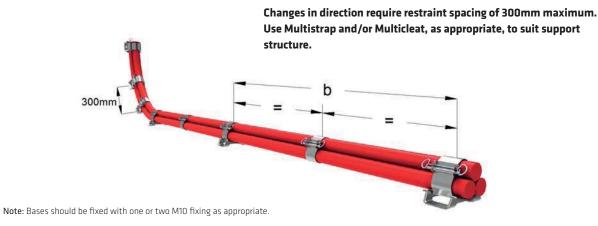


Multicleat/Multistrap Selection and Spacing for Fault Current Rating

Multicleat / Multistrap	Spacing 'b' m Max	Short	Circuit	Cleat Spacing at vertical change of
		Curre	ent kA	direction (mm)
		rms	peak	
Standard Duty	1.8	43	114	300
Heavy Duty	1.5	50	130	300
Heavy Duty	1.2	71	184	300



Important note: To ensure adequate restraint, Multistrap MUST be used at the mid-point between cleats on all horizontal and vertical straight runs.



Miscellaneous Arrangements



Multicleat/Multistrap System

The Multicleat / Multistrap system is ideally suited for securing groups of cables of differing sizes. The Prysmian technical help team will be able to match the correct cleat /strap to for the size and fault rating of the cable arrangement.



Etech maintains a free technical advisory service.

Enquiries concerning this and all other products should be directed via the sales office:- +44(0) 1744 762 929



