



Multicleat/Multistrap System 378 Series





CE

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.

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- Suitable for use with all standard ladder and tray systems.
- Suitable for groups of dissimilar cables.
- LUL APR Product ID 1996.
- Patent number 2082242.

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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.



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	-		Aluminium								378 AR								
	Two Bolts	Aluminium																	
Base		el	Stainless Stee								₽	ĭ							
Base Options	Single Bolt	el	Stainless Stee								뮤	1							
		ł	Standard	01	02	03	04	20	90	07	80	60							
		ty	Heavy Dut	27	52	53	54	55	56	57	58	59	36	37	38	39	40	41	47
	Trefoil &		Minimum Individual Cab Diameter (mn	24	30	37	43	50	56	63	69	N/A	72	82	26	102	112	122	7FL
Cable Size	ii 89		Maximum Individual Cab Diameter (mn	34	41	47	54	60	67	73	80	N/A	28	26	105	115	125	135	145
Size	Single		Minimum Individual Cab Diameter (mn	36	60	80	85					105							
	gle O		Maximum Individual Cab Diameter (mn	65	85	06	110					120							
Liner			377LSF		3	9					02				05		D N	Co	
			Max Width C (mm)	126	126	122	122	132	132	176	176	122	230	230	284	284	284	284	290
		Þ	Hole Centres D (mm)	100	100	96	96	106	106	150	150	96	200	200	242	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							1
			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	1.572
			Max Width C (mm)	120	120	126	126	132	132	152	152	126	230	230	230	290	290	290	290
	Two Bolts		Hole Centres D (mm)	100	100	100	100	100	100	125	125	100	200	200	200	250	250	250	250
	lts	JВ	Weight (kg) Standard Duty (01-09)	0.63	0.641	0.727	0.742	0.757	0.771	0.94	0.953	0.754							1
Dimensions and Weights			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	2.643
ons and		AB or /	Max Height Trefoil B (mm)	95	100	121	135	146	160	172	186		190	210	230	250	270	290	315
Weights		or AD or JB	Max Height Single Cable B1 (mm)	92	113	11	138	1	i.	i.	i.	148		i.		,	ł.		1
			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	a.							
	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							
	t		Weight (kg) Heavy Duty (51-42)	0.519	0.538	0.622	0.641	0.701	0.722	0.972	0.992	0.660							
			Max Height Trefoil (mm)	99	113	121	135	147	161	173	187	i.	i.	i.	i.	i.	a.	i.	i.
			Max Height Single Cable B1 (mm)	96	116	118	138					148							

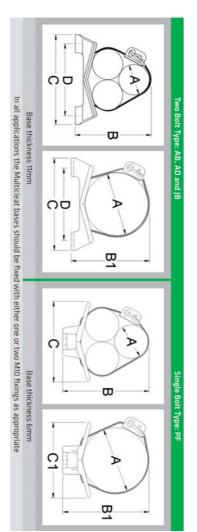
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Option

Cable Size

Weight

								AB								
Standard	01	02	03	04	05	90	07	80								
Heavy Duty	ក	52	Ω	54	σσ	56	57	58		36	37	8Ε	89	40	41	42
Minimum Individual Cable Diameter (mm)	24	30	37	43	50	56	63	69	N/A	72	82	92	102	112	122	132
Maximum Individual Cable Diameter (mm)	34	41	47	54	60	67	73	80	N/A	85	95	105	115	125	135	145
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
377LSF		3	2		02					P	C		R	C		







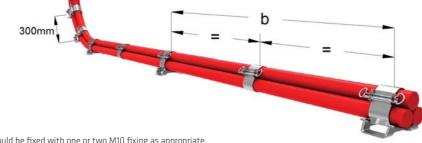
Multicleat/Multistrap Selection and Spacing for Fault Current Rating

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.

Changes in direction require restraint spacing of 300mm maximum. Use Multistrap and/or Multicleat, as appropriate, to suit support structure.



Note: Bases should be fixed with one or two M10 fixing as appropriate.

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.

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